

Diagnostic Algorithms for NCS/DSM-III-R Di

NCS Working Paper #7

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## Table of Contents

|      |   |     |
|------|---|-----|
| I.   | Introduction . . . . .  | 1   |
| II.  | Affective Disorders   |     |
| 1.   | Major Depression . . . . .  | 4   |
| 2.   | Mania . . . . .   | 8   |
| a.   | Hypomanic Episodes . . . . .  | 10  |
| 3.   | Dysthymia . . . . .   | 11  |
| III. | Anxiety Disorders   |     |
| 1.   | Generalized Anxiety Disorder . . . . .                                | 14  |
| 2.   | Panic Disorder . . . . .  | 16  |
| a.   | Panic Attacks . . . . .   | 17  |
| b.   | Panic Disorder with Agoraphobia . . . . .                             | 17  |
| 3.   | Agoraphobia . . . . .   | 19  |
| a.   | Agoraphobia without History of Panic Disorder . . . . .               | 20  |
| 4.   | Social Phobia . . . . .   | 21  |
| 5.   | Simple Phobia . . . . .   | 23  |
| 6.   | Post-Traumatic Stress Disorder . . . . .                              | 25  |
| IV.  | Substance Use Disorders   |     |
| 1.   | Substance Abuse . . . . .   | 27  |
| 2.   | Substance Dependence . . . . .  | 28  |
| V.   | Other Disorders   |     |
| 1.   | Antisocial Personality Disorder . . . . .                             | 34  |
| a.   | Adult Antisocial Behavior . . . . .                                   | 34  |
| 2.   | Conduct Disorder . . . . .  | 35  |
| 3.   | Nonaffective Psychosis . . . . .                                      | 36  |
|      | Appendix A. Computer Program in the NCS/DSM-III-R Diagnoses . . . . . | A-1 |
|      | Appendix B. Variable List . . . . .                                   | B-1 |



## SECTION I. INTRODUCTION

This working paper was prepared for those who want to use the UM-CIDI for generating DSM-III-R diagnoses. As described in NCS Working Paper #2, the UM-CIDI is a modification of the World Health Organization Composite International Diagnostic Interview (WHO-CIDI). The UM-CIDI was developed by a team of investigators from the University of Michigan (UM) led by Dr. Ronald Kessler in collaboration with Dr. Hans-Ulrich Wittchen from the Max Planck Institute of Psychiatry in Munich, Germany, for use in the NCS. As a number of other investigators are interested in replicating the NCS in other areas, we are making our diagnostic programs available.

Sections II through V contain verbal presentations of the UM-CIDI programs, complete with commentary about differences between the UM-CIDI and the WHO-CIDI. Appendix A contains the actual SAS computer programs used to derive UM-CIDI diagnoses. In most cases, the DSM-III-R diagnostic criteria operationalized in the NCS are identical to those used in the WHO-CIDI computer diagnostic programs. Special attention has, therefore, been paid to those areas where the UM-CIDI programs do differ from the WHO-CIDI programs.

NCS Diagnostic Computer Programs for Affective and Anxiety Disorders generate the following diagnoses:

1. Major Depressive Episode (depl, dep2)
2. Manic Episode (manl, man2)  
Hypomania (hman)
3. Dysthymia (dysl, dys2)
4. Generalized Anxiety Disorder (gad1, gad2)
5. Agoraphobia (ago)
6. Simple Phobia (sim)
7. Social Phobia (soc)
8. Panic Disorder (pd)  
Panic Attacks (pt)
9. Post-Traumatic Stress Disorder (ptsd)
10. Anti-Social Personality Disorder (asp)
11. Adult Anti-Social Behavior (aab)
12. Conduct Disorder (cd)

In cases where a hierarchy rule is required for a diagnosis, two sub-types of the diagnosis are given: DX1 refers to the diagnostic outcome prior to applying the hierarchy rule and DX2 refers to the diagnostic outcome after applying the hierarchy rule. It should be mentioned that the SAS programs for PTSD and CD

provided in this package are simplified versions that may require modifications depending on the researcher's substantive interests.

NCS Diagnostic Computer Programs for Substance Abuse/ Dependence Disorders generate the following diagnoses:

1. Substance Abuse/ Dependence:

Alcohol  
Sedatives  
Tranquilizers  
Stimulants  
Analgesics  
Inhalants  
Marijuana  
Cocaine  
Hallucinogens  
Heroin

2. Nicotine Dependence

Onset (XXXons), recency (XXXrec), onset age (XXXonsa), and recency age (XXXreca) for the above diagnoses are also computed. The four numbers (1 to 4) assigned to onset and recency are defined as:

1= last month  
2= last six months  
3= last year  
4= more than one year ago.

It is recommended that users of this package read Working Paper #2 carefully to acquaint themselves with the differences between the WHO-CIDI and the UM-CIDI. It is a good idea to place the UM-CIDI questionnaires side by side with the WHO-CIDI interviews while reading this document. The next step is to read Section II-V of the current Working Paper, which describe the diagnostic criteria used in the NCS for generating the DSM-III-R diagnoses.

The SAS diagnostic computer programs included in Appendix A of this package shall be examined next -- they are organized into mini-programs, each one specific to a DSM-III-R diagnosis. As these programs were initially written for data analysis in the OSIRIS environment, variable numbers such as v1, v1500, and v1708 were used to refer to the questions asked in the questionnaires. Those who will use SPSS, SAS, or other statistical packages equipped with the capability to refer directly to question numbers (e.g., B6, B7, etc.) may want to modify these programs by changing the variables back to question numbers. This can be done by either changing the variable numbers in the text of the programs or by adding a series of RENAME statements at the beginning of the programs. A complete list of all the variables used in the computer programs is provided in Appendix B along with their corresponding question numbers as they appear in the NCS questionnaires.

It is possible to put all the mini-programs together into a master file and run the entire program in one run given adequate computer resources. In case of a memory problem, the master file needs to be broken into several small programs to be run separately. One thing to remember, however, is that these small programs have to be run in the same sequence as they appear in the master program with the results of the antecedent runs being saved and used in the subsequent runs. The main reason for this requirement is the built-in hierarchical rules of the diagnostic criteria.

Finally, it should be mentioned that in the NCS, Nap50, or Nonaffective Psychosis, was diagnosed on a case by case basis by clinical interviewers who administered the psychosis section of the SCID to all NCS respondents who were positive on Section K of the NCS interview. Nap50 was then used as part of the hierarchy rule in the diagnosis of other disorders. If this variable is not available to you, simply comment it out in the subsequent programs. As the number of NAP cases is typically very small, deletion of this variable will have little impact on the diagnostic outcome in most instances.

## SECTION II. AFFECTIVE DISORDERS

### 1. Criteria for Major Depression

There are four Diagnostic Criteria for Major Depressive Episode (MDE) in DSM-III-R (A-D). In addition, the Diagnosis of a Major Depressive Disorder (MDD) requires that the respondent has never had a Manic Episode or an unequivocal Hypomanic Episode. The hierarchical exclusion of respondents with a history of mania is operationalized in the UM-CIDI merely by excluding respondents from MDD if they ever met UM-CIDI criteria for Manic Episode or Hypomanic Episode. The four criteria for MDE were operationalized as follows:

A. At least five symptoms must be present during the same two-week period and present a change from previous functioning. At least one of these symptoms must be depressed mood or loss of interest. Symptoms clearly due to a physical condition, mood-congruent delusions or hallucinations, incoherence, or marked loosening of associations should not be included.

The UM-CIDI, like the CIDI, does not require respondents to report about a particular two-week period, but rather about a particular episode of depression that could go on for much longer than two weeks. Exclusion for organic causes is made in UM-CIDI at the symptom level for the particular episode probed. This is different from the method used in the CIDI, where exclusion for organic causes is made based on symptom probes prior to focusing on a particular episode. So, for example, a respondent can report that a particular symptom that occurred at various times during his/her life was sometimes due to alcohol but not always. The assumption made in the CIDI is that this symptom, if it was present during the index episode of depression being evaluated, was not due to alcohol this time. This assumption can lead to overestimation of rates of depression. The UM-CIDI corrects this problem by probing for organic exclusions at the episode level.

It should also be noted that DSM-III-R is much more explicit about the persistence of depressive symptoms over a two-week period than the CIDI or UM-CIDI. DSM-III-R states that "The symptoms ... are relatively persistent, that is, they occur for most the day, nearly every day, during at least a two-week period." The CIDI and UM-CIDI questions merely ask about "two weeks or more when nearly every day" the symptoms occurred, without mentioning how long the symptoms had to persist within the day. We have developed a new probe for use in subsequent revisions of the UM-CIDI to ask explicitly about whether they occurred "most of the day" on the days they occurred. This probe was not, however, used in the NCS.

A1. The requirement that one of the five must be depressed mood or loss of interest is operationalized as (depressed) B3=1 or B4=1 or B4a=1 or (loss of interest) D22=1 and D84a\_19=/=1. Note that B3 is the dysthymia stem question, not a stem question for Major Depression. We allow respondents who were positive to B3 but negative to all other stem questions to continue with the section as a way of providing a "second chance" for getting into the stem-branch structure

of the question series. If these people reported enough other symptoms to qualify for Major Depression, they were asked if these symptoms ever clustered in a two-week period. If it did not, they were terminated. In other words, these people were only allowed to continue in the section if they reversed themselves after initial symptom probing to state that they did have a two-week period of being sad, blue, or depressed. As it happened, not a single respondent out of over 8000 met diagnostic criteria for Major Depression via this route. Therefore, in future use of the UM-CIDI we plan to exclude respondents from further questions if they are positive on only the B3 stem question.

An important difference between the UM-CIDI and the CIDI is that the UM-CIDI skips all further symptom questions if the respondent reports "No" to all the A1 stem questions. This is not done in the CIDI, where the respondent is administered all the symptom questions and given a second chance to admit to depressed mood or loss of interest if there are a total of four or more other symptoms that are reported to have clustered in time. Our decision not to provide this second chance in the UM-CIDI is based on the experience of the ECA Study, which found that only a very small number of respondents met diagnostic criteria because of this second chance. There is a considerable cost associated with providing this second chance in that the large number of people who are negative on all the stem questions for Major Depression are nonetheless administered 35 additional symptom questions and, in the method used in the CIDI, probes for each positive response to these questions for organic exclusions. Based on our experience in pilot tests for the NCS, we estimate that these additional questions take an average of approximately ten minutes to administer. We judged this additional time too high a cost in light of the very small number of cases that are added. Another important consideration in coming to the decision to omit this second chance from the UM-CIDI was that we used a procedure of pulling up stem questions to the beginning of the interview and using commitment and motivation probes to increase accuracy of recall. Our pilot study results show that this method -- which included the addition of B3 and B4a as additional stem question "second chance" questions -- led to a much greater increase in the number of respondents who reported Major Depression than the CIDI second chance option.

A2. The count of five symptoms not due to organic causes is operationalized as one or more positive responses to at least one question in at least five of the following nine categories, with the respondent both reporting that the symptom was present during the index episode and also that this symptom was not due to organic causes during this episode:

| symptoms<br>in worst spell: D81s | not due to organic causes<br>medications: D84s |
|----------------------------------|--|
| #2 D22=1 and D81a_19=1           | D84a_19=/=1                                    |
| #3 D2=1 and D81a_01=1            | D84a_01=/=1                                    |
| D4=1 and D81a_03=1               | D84a_03=/=1                                    |
| D6=1 and D81a_04=1               | D84a_04=/=1                                    |
| D7=1 and D81a_05=1               | D84a_05=/=1                                    |

|                        |             |
|------------------------|-------------|
| #4 D9=1 and D81a_06=1  | D84a_06=-/1 |
| D11=1 and D81a_08=1    | D84a_08=-/1 |
| D13=1 and D81a_10=1    | D84a_10=-/1 |
| D15=1 and D81a_12=1    | D84a_12=-/1 |
| <br>                   |             |
| #5 D16=1 and D81a_13=1 | D84a_13=-/1 |
| <br>                   |             |
| #6 D19=1 and D81a_16=1 | D84a_16=-/1 |
| D21=1 and D81a_18=1    | D84a_18=-/1 |
| <br>                   |             |
| #7 D27=1 and D81a_24=1 |             |
| D30=1 and D81a_27=1    |             |
| <br>                   |             |
| #8 D34=1 and D81a_31=1 | D84a_31=-/1 |
| D36=1 and D81a_33=1    | D84a_33=-/1 |
| D37=1 and D81a_34=1    | D84a_34=-/1 |
| <br>                   |             |
| #9 D41=1 and D81a_36=1 |             |
| D42=1 and D81a_37=1    |             |
| D43=1 and D81a_38=1    |             |
| D44=1 and D81a_39=1    |             |

B. The second criterion is that it cannot be established that an organic factor initiated and maintained the disturbance or that the disturbance is a normal reaction to the death of a loved one. The first of these requirements is fulfilled in the D84 series of organic exclusions. The second is established in questions about the episode being precipitated by the death of a loved one (single episode, D61=5; multiple episode, D70=5 or D70a=1). If the episode is associated with the death of a loved one, the UM-CIDI can still define it as depression if the reactions go beyond the normal bounds of uncomplicated bereavement. The exceeding of these bounds are operationalized as having two or more of the following:

D19=1  
 D27=1  
 D43=1  
 D44=1  
 D55=1

D63 (84<=D63a<98 and D63b=1) or    for single episode  
 (12<=D63a<98 and D63b=2) or  
 (3 <=D63a<98 and D63b=3) or  
 (1 <=D63a<98 and D63b=4) or

D74 (84<=D74a<98 and D74b=1) or    for multiple episode  
 (12<=D74a<98 and D74b=2) or  
 (3 <=D74a<98 and D74b=3) or  
 (1 <=D74a<98 and D74b=4) or

C-D. A third criterion is that at no time during the episode were there delusions or hallucinations for as long as two weeks in the absence of prominent mood symptoms, while a fourth criterion is that the episode is not superimposed on Schizophrenia, Schizopreniform Disorder, Delusional Disorder, or Psychotic Disorder NOS. Among the small number of NCS respondents who reported a lifetime history of delusions or hallucinations, these exclusions were operationalized as (K58=/=2 AND K58=/=3 OR K59b=/=2 AND K59b=/=3) AND K59c=/=1.

It should be noted that DSM-III-R distinguishes between Single Episode Major Depression and Recurrent Major Depression by saying that Recurrent MDD requires a minimum of two episodes separated by at least two months of return to more or less usual functioning. This is operationalized in the UM-CIDI as D69b=1 or D69c=1. (It is further stated that "If there has been a previous Major Depressive Episode, the current episode of depression need not meet the full criteria for a Major Depressive Episode". This statement did not play a part in the UM-CIDI, as only one episode of MDE was probed for meeting full criteria).

## 2. Criteria for Manic Episode

Manic Episode in DSM-III-R is defined as including criteria A to F which require the presence of an elevated or irritable mood lasting at least two days accompanied with at least three symptoms not caused by organic factors and not superimposed on psychotic disorders but resulting in marked impairment. These criteria were operationalized in the UM-CIDI as follows:

A. A period of at least two days during which the predominant mood is either elevated or irritable:

B6=1 or B7=1.

As in the section on Major Depression, the UM-CIDI diverges from the WHO-CIDI in skipping respondents who fail to endorse one of these diagnostic stem questions. The WHO-CIDI continues with all symptom questions and gives the respondent a second chance to endorse the stems. The rationale for our skipping at this point rather than providing a second chance is the same as for DEP. It should be noted, in addition, that NCS validity studies show that the UM-CIDI diagnoses of mania and hypomania have high rates of false positives, meaning that the screening questions select in too many people rather than too few. Indeed, a good case could be made not to use the screening question about irritability (B7) because it is very rare to find a respondent who fails to endorse the euphoria stem question (B6) but does endorse the irritability stem question (B7) and is validated in SCID reinterviews as a case of either mania or hypomania.

B. During the period of mood disturbance (i.e., the worst spell), at least three of the following seven symptom categories have been present (four are required if the mood is only irritable):

(E15=1 or E15a=5) and

E4=1 and E36\_1=1      or      E5=1 and E36\_2=1  
E6=1 and E36\_3=1      or      E7=1 and E36\_4=1  
E8=1 and E36\_5=1  
E9=1 and E36\_6=1  
E10=1 and E36\_7=1  
E11=1 and E36\_8=1  
E12=1 and E36\_9=1

C. Mood disturbance is sufficiently severe to cause marked interference in life or result in hospitalization:

E22=1 or E23=1.

D. At no time during the disturbance have there been delusions or hallucinations for as long as two weeks in the absence of prominent mood symptoms:

K59c=-/=1.

E. Mood disturbance does not only co-occur with psychotic disorders:

[ (K58 =/=2 and K58 =/3)    or  
 (K59b=-/=2 and K59b=-/3) ] and  
 K59c=-/=1.

F. The disturbance is not initiated and maintained by organic factors such as drugs and alcohol:

1) the mood is not due to organic factors:

E1a=-/=1 or E3a=-/=1

2) and the symptoms are not due to organic factors:

E37a\_1=-/=1    or    E37a\_2=-/=1  
E37a\_3=-/=1    or    E37a\_4=-/=1  
E37a\_5=-/=1  
E37a\_6=-/=1  
E37a\_7=-/=1  
E37a\_8=-/=1  
E37a\_9=-/=1

Notes:

There are two places where questions are asked about the influence of organic factors on mood disturbance: respondents were first asked whether the specific mood problem and the symptoms they mentioned were solely caused by medications, drugs or alcohol; toward the end of the section on Mania, respondents were asked again about the possibility of their mood disturbance being due to use of drugs and alcohol and, if the answer was positive, respondents were then probed to provide information on which started first and which lasted longer -- the organic factors or the mood disturbance. Those respondents who said their mood problem was caused by organic factors in the first place (E1a=1 or E3a=1) but reversed their answer in the second place (E39=-/=1 or E39a=-/2 or E41=-/1 or E41a=-/1 or E41b=-/2) and also had met all other criteria were included as Mania cases under the UM-CIDI. It turns out that there were 7 such cases out of 8098 respondents.

**a. Criteria for Hypomanic Episodes**

Hypomanic episodes are defined in the UM-CIDI as including those cases that do not make criteria for Manic Episodes due to the lack of marked impairment. In contrast to the WHO-CIDI, minor impairment is required of Hypomanic episodes in the UM-CIDI. Minor impairment is defined as meeting any of the following conditions:

- |  |       |
|--|-------|
| 1. tell a doctor about the mood problem                | E16=1 |
| 2. given any prescription for the mood problem         | E17=1 |
| 3. advised to see mental health specialist             | E18=1 |
| 4. saw mental health specialist                        | E19=1 |
| 5. saw other professional about the mood problem       | E20=1 |
| 6. took medication more than once for the mood problem | E21=1 |

### 3. Criteria for Dysthymia

Dysthymia in DSM-III-R is defined as including criteria A to G which require the presence of depressed mood lasting at least two years accompanied with two or more symptoms not caused by organic factors and not superimposed on other affective disorders. These criteria were operationalized in the UM-CIDI as follows:

A. Depressed mood for most of the day, more days than not, for at least two years. We measured the duration of mood at two different places. First, we provided a stem question at the beginning of the survey asking whether the respondent ever had depressed mood lasting two years or more. A positive answer to that question fulfilled criterion A (B3=1). Those who initially said "No" to this question but later reported that the length of their longest episode of depression was two years or more (D63=>2 years or D74=>2 years) were also treated as meeting Criterion A for Dysthymia.

B. & G. Presence of at least two of the following six symptom categories that are not caused by organic factors while depressed:

| 6 categories of symptoms |                                  | not due to medications (D84s)                                |
|--------------------------|----------------------------------|--|
| #1                       | D2 =1<br>D6 =1                   | D84_01=-/=-1<br>D84_04=-/=-1                                 |
| #2                       | D9 =1<br>D11=1<br>D13=1<br>D15=1 | D84_06=-/=-1<br>D84_08=-/=-1<br>D84_10=-/=-1<br>D84_12=-/=-1 |
| #3                       | D16=1                            | D84_13=-/=-1   |
| #4                       | D31=1<br>D32=1                   |  |
| #5                       | D34=1<br>D37=1                   | D84_31=-/=-1<br>D84_34=-/=-1                                 |
| #6                       | C1b=1                            |  |

and these symptoms clustered with the depressed mood:

D47=1 or D47a=5.

C. During a two-year period of the disturbance, never without the depressed mood for more than two months at a time:

B3a=1 or D63=> 2 years or D74=> 2 years.

D. No evidence of an unequivocal Major Depressive Episode during the first two years of the disturbance (Note: There may have been a previous Major Depressive Episode, provided there was a full remission before development of the Dysthymia).

If DEP =1 and any of the following three conditions is met, the case is to be excluded from Dysthymia:

1. Those who were negative on B3a but positive on D63 or D74 (more than 2 years):

B3a<sup>^</sup>=1 and D63 => 2 years (single DEP episode)  
B3a<sup>^</sup>=1 and D74 => 2 years (multiple DEP episode)

2. For the remaining single episode DEP cases (D58=1):

(DYSEND => DEPEND => DYSONSA) or (DYSEND => DEPONSA => DYSONSA) and  
C3 = 1 or 3  
or  
C3 = 2 and DYSRECA <= DEPEND or DYSONSA <= DYSRECA <= DYSEND  
or  
DEPONSA <= DYSONSA and DEPEND => DYSRECA

3. For the remaining multiple-episode DEP cases (D58>1):

DYSONSA <= (DEPCNSA or DEPRECA or D780NSA or  
LONGONSA or LONGREC) <= DYSEND and C3 = 1 or 3  
or  
C3 = 2 and (D69 = 5 or D69a = 5 or D69b = 5)  
or  
D760NSA <= DYSONSA and (D760NSA + 1) => DYSRECA  
or  
LONGREC <= DYSONSA and D77REC => DYSRECA  
or  
((D77-D76)<= D74)) and D760NSA <= DYSEND and D77RECA => DYSRECA

where

DEPONSA = DEP onset age  
DEPRECA = DEP recency age  
DEPEND = D62 - D62b  
DYSONSA = DYS onset age  
DYSRECA = DYS recency age  
DYSEND = DYSONSA + 1

D760NSA = D76a or D76b or D76c  
LONGONSA = D760NSA + 1

D77REC = R's current age (if 1<=D77<=3)  
LONGRECA = D77REC - 1  
D77RECA = R's current age (if 1<=D77<=3) or D77a (if D77=4)  
D780NSA = D78, D79, D79a-b (onset age of worst episode of DEP)

E. Has never had a Manic Episode or an unequivocal Hypomanic Episode:  
Manic Episode=/=1 and Hypomanic episode=/=1.

F. The mood disturbance is not superimposed on a chronic psychotic disorder, such as Schizophrenia or Delusional Disorder:

(K58 =/=2 and K58 =/=3) or  
(K59b=/=2 and K59b=/=3) and  
K59c=/=1.

Notes:

DSM-III-R Criterion D for Dysthymia requires that Dysthymia should not be diagnosed if an unequivocal Major Depressive Episode occurred during the first two years of the dysthymic disturbance. However, there were no direct questions addressing this issue in either the WHO-CIDI or the UM-CIDI. Nonetheless, we attempted to tackle this problem based on the questions we did ask in the UM-CIDI. All the following categories of respondents were treated as failing to meet the D criterion if they ever had a Major Depressive Episode: (1) those who initially gave a negative answer to the B3a stem question but later reversed their answer to a positive one (D63=> 2 years or D74=>2 years); (2) those whose Major Depression either began (age of onset) or ended (recency age) in the first two years of the dysthymic episode; and (3) those whose dysthymic episode was entirely contained in an episode of Major Depression.

In light of the fact that the number of people disqualified for the diagnosis of Dysthymia Disorder due to criterion D was large, we decided to create an additional diagnostic category named Dysthymic Episode which includes cases not fulfilling criterion D.

### SECTION III. ANXIETY DISORDERS

#### 1. Criteria for Generalized Anxiety Disorder

Generalized Anxiety Disorder (GAD) in DSM-III-R is defined as including criteria A to E which require at least 6 month duration of excessive worry of multiple life circumstances with 6 or more accompanying autonomic symptoms not attributable to organic factors and not occurring only during the course of a Mood disorder. These criteria were operationalized in the UM-CIDI as follows:

A. Unrealistic or excessive anxiety and worry about two or more life circumstances for a period of six months or longer:

B2b=1 and (B101=1 or B101a=1) and B102=1

However, if the onset of anxiety took place in the past six months (B106=2), yet its recency was not in the last 30-days (B108=/=1), criterion A is not met.

B. The focus of the anxiety and worry was not about one's mental and/ or physical conditions such as illness and overweight:

B102a=1 or B102c=2

C. The disturbance did not occur only during the course of a Mood Disorder or a psychotic disorder:

1) not during Mood Disorder:

(D89a=/=2 and D89a=/=3) or  
(D89b=/=1 and D89b=/=3) or  
D94a=5 or  
(D94b=/=2 and D94b=/=3) or  
(D94c=/=1 and D94c=/=3)

2) not during psychotic disorder:

(K56b=/=2 and K56b=/=3) or  
K56a=5 or  
(K56c=/=1 and K56c=/=3)

D. & E. Presence of at least 6 of the following 18 symptom categories when anxious that were not caused by organic factors:

| categories of anxious symptoms   | not due to organic factors   |
|--|--|
| 1) Motor tension:<br>B103b=1<br>B103d=1<br>B103c=1<br>B103i=1  | B105a_02=/=1<br>B105a_04=/=1<br>B105a_03=/=1<br>B105a_09=/=1   |
| 2) Autonomic hyperactivity:<br>B103h=1<br>B103g=1<br>B103j=1 or B103w=1<br>B103k=1<br>B103t=1<br>B103l=1 or B103q=1<br>B103n=1<br>B103s=1<br>B103o=1 | B105a_08=/=1<br>B105a_07=/=1<br>B105a_10=/=1 or B105a_23=/=1<br>B105a_11=/=1<br>B105a_20=/=1<br>B105a_12=/=1 or B105a_17=/=1<br>B105a_14=/=1<br>B105a_19=/=1<br>B105a_15=/=1 |
| 3) Vigilance or scanning<br>B103e=1<br>B103a=1<br>B103r=1 or B103m=1<br>B103p=1<br>B103f=1   | B105a_05=/=1<br>B105a_01=/=1<br>B105a_18=/=1 or B105a_13=/=1<br>B105a_16=/=1<br>B105a_06=/=1   |

Note:

According to DSM-III-R, symptoms B103g, B103h, B103l, and B103t should not be counted if they occurred only during panic attacks. In the UM-CIDI, however, we didn't probe for the possible co-occurrence of those particular symptoms with panic attacks. We checked this problem after completion of our data collection (we calculated an upper-bound estimate by deleting all positive answers to the four Panic-related GAD symptoms if their corresponding Panic symptoms were also positive) and found that the impact of this omission on the diagnosis of GAD was very small (only two cases were affected).

## 2. Criteria for Panic Disorder

Panic Disorder in DSM-III-R is defined as including criteria A to E which require the sudden occurrence of an intense fear frequently repeated within one month's period with at least four fast-developing panic symptoms not attributable to organic factors. These criteria were operationalized in the UM-CIDI as follows:

A. The occurrence of one or more discrete periods of intense fear or discomfort that was unexpected and not triggered by situations in which the person was the focus of others' attention:

B1=1 and B70=1.

B. The episode of intense fear or discomfort occurred at least four times within one month or was followed by a period of at least one month of persistent fear of having another attack:

B79=1 or B82=1 or B80=1.

C. At least four of the following 13 categories of symptoms developed during at least one of the attacks:

- 1) B71a=1 or B71q=1
- 2) B71c=1 or B71g=1
- 3) B71b=1
- 4) B71i=1
- 5) B71h=1
- 6) B71f=1
- 7) B71o=1 or B71p=1
- 8) B71k=1
- 9) B71e=1
- 10) B71j=1
- 11) B71d=1
- 12) B71m=1
- 13) B71n=1

D. During at least some of the attacks, at least four of the symptoms developed suddenly and increased in intensity within ten minutes of the beginning of the episode:

B73=1.

E. These panic attacks were not initiated and maintained by an organic factor:

B93=/=1 and B94=/=1.

In the UM-CIDI we also require that the panic attacks should not occur only in agoraphobic situations: B99c=-/=-5. The rationale is that if the attack always takes place in an agoraphobic situation then that attack is not unexpected and should thus be seen as a manifestation of Agoraphobia rather than Panic Disorder.

a. Criteria for Panic Attacks

Meets criteria A, C, and D for Panic Disorder.

b. Criteria for Panic Disorder with Agoraphobia

A. meets the full criteria for Panic Disorder.

B. Meets the full criteria for Agoraphobia.

Notes:

In the WHO-CIDI, Agoraphobia in this particular situation is defined as B10=1 or B11=1 or B12=1 or B12a=1.

A subsequent validation study of the UM-CIDI panic diagnosis found that a number of cases classified as having panic actually were phobics. The problem seems to be that the exclusion questions in the UM-CIDI are not adequate to sort out people with simple phobias who have panic attacks only in phobic situations (e.g., a person whose attacks only occur when he sees a snake). The exclusion question B70 is inadequate to exclude a person of this type, who recognizes that he is not in real danger.

Based on this validation study result, we returned to the open-ended material in question B70a. The detailed examples collected here do not exist in the WHO-CIDI. A review of these open-ended responses led to the discovery that a number of NCS respondents provided enough data about the situations in which they had attacks to exclude them from panic. One respondent, for example, gave examples and commentary which made it clear that her attacks occur exclusively when she is on elevators. In cases of this sort, we edited out the respondent as not meeting criteria for panic disorder because the attacks were not unexpected.

In future work, we plan to develop more clear exclusion questions of a structured sort, but this was not done in the NCS. New users may want to develop questions of this sort on their own, or adopt our policy of reviewing all open-ended materials to find cases where the attacks appear to be exclusively associated with phobia. As part of our editing, the most difficult cases were

those whose two examples on B70 were of phobic situations, but who did not say explicitly that their attacks occur exclusively in these situations. In cases of this sort, we found it useful to check the age of onset data in the simple phobia section. In many cases we found that onset ages were the same as for panic. For example, one respondent who reported 50 panic attacks and gave two examples that both involved fear of bridges also reported a bridge phobia and reported that the ages of onset and recency of the bridge phobia were the same as the ages of onset and recency of panic. This kind of consistency increases our faith in the decision to exclude this respondent from a diagnosis of panic in favor of a diagnosis of simple phobia.

### 3. Criteria for Agoraphobia

Agoraphobia is defined in DSM-III-R as follows: "Fear of being in places or situations from which escape might be difficult (or embarrassing) or in which help might not be available in the event of suddenly developing a symptom(s) that could be incapacitating or extremely embarrassing. Examples include: dizziness or falling, depersonalization or derealization, loss of bladder or bowel control, vomiting, or cardiac distress. As a result of this fear, the person either restricts travel or needs a companion when away from home, or else endures agoraphobic situations despite intense anxiety. Common agoraphobic situations include being outside the home alone, being in a crowd or standing in a line, being on a bridge, and traveling in a bus, train, or car."

The above description was operationalized in the UM-CIDI in terms of the following criteria:

A. Experience of at least one of the following five fears:

B8a=1  
B8b=1  
B8c=1  
B8d=1  
B8e=1

B. Fear of either suddenly collapsing or the development of incapacitating/embarrassing symptoms when no help was available or escape was impossible:

B12=1 or B12a=1.

C. The above fear produced symptoms of severe anxiety, avoidance, endurance, or impairment:

B10=1 or B11=1 or B13=1 or B19=1 or B20=1 or B22=1-3.

In the Simple Phobia section we asked an open-ended question (B49k) about whether respondents ever had any additional unreasonable fears. In coding answers to this question we noticed that some cases that were agoraphobic in nature and among those cases four also met the above criteria B and C. We therefore included those four cases as diagnoses of Agoraphobia.

Note:

In the WHO-CIDI, Agoraphobia was operationalized as Criterion A plus B10=1 or B11=1 or B12=1 or B12a=1 and B13=1 or B19=1 or B20=1 or B22=1.

**a. Criteria for Agoraphobia without History of Panic Disorder**

- A. Meets the full criteria for Agoraphobia.
- B. Has never met criteria for Panic Disorder.

#### 4. Criteria for Social Phobia

Social Phobia is defined in DSM-III-R as including criteria A to G which require a persistent and excessive fear of social situations, the exposure to which almost invariably provokes an immediate anxiety response and the avoidance of which interferes with daily functioning. These criteria were operationalized in the UM-CIDI as follows:

A. and F. A persistent and excessive/ unreasonable fear of one or more of the following social situations in which the person was exposed to possible scrutiny by others and fears that he or she might do something or act in a way that would be humiliating or embarrassing:

1) excessive fear of social situations:

B29a=1  
B29b=1  
B29c=1  
B29d=1  
B29e=1  
B29f=1

2) persistent fear of social phobic situations:

B31=1 or B31a=1 (see note 2 below)

B. The above fear was unrelated to other mental health disorders such as Panic Disorder and Parkinson's disease. This criterion was not directly adopted in the UM-CIDI but was partially implied in the questions about the social phobic situations.

C. During some phase of the disturbance, exposure to the specific phobic stimulus (or stimuli) almost invariably provoked an immediate anxiety response:

B45=1 or B46=1.

D. The phobic situation(s) was avoided or endured with intense anxiety:

B31a=1 or B38=1-3 or B43=1 or B44=1 or B45=1.

E. The avoidance of the phobic situation interfered with daily functioning or there was marked distress about having the fear:

B36=1 or B37=1 or B38=1.

Notes:

According to DSM-III-R (Criterion G), when a person is under 18, Social Phobia should not be diagnosed if the person is already diagnosed as having Avoidant Disorder of Childhood or Adolescence. We didn't include this criterion in the UM-CIDI because the focus of our survey was primarily adults.

In the UM-CIDI, the persistence criterion (A/F\_2) was made more stringent by imposing the following requirements: (1) B31=1, or (2) B31a=1 and the fear started a year ago and lasted for at least a year, or (3) the fear started in past year or past six months and was still going on in the past month. In the WHO-CIDI, however, the same criterion was operationalized as B31=1 or B31a=1.

Also in the WHO-CIDI, Criterion C didn't include B31a and B38 while Criterion D included B43, B44 and B45.

In the Simple Phobia section we asked an open-ended question (B49k) about whether respondents ever had any additional unreasonable fears. In coding answers to this question we noticed that some fears were social phobic in nature and among those cases five met all the criteria for Social Phobia. We therefore included those five cases as cases of Social Phobia.

## 5. Criteria for Simple Phobia

Simple Phobia is defined in DSM-III-R as including criteria A to F which require a persistent and excessive fear of a circumscribed object or situation, the exposure to which almost invariably provokes an immediate anxiety response and the avoidance of which interferes with daily functioning. These criteria were operationalized in UM-CIDI as follows:

A. and E. A persistent and excessive/ unreasonable fear of one or more of the following circumscribed objects or situations:

1) excessive fear of circumscribed objects or situations:

B49a=1  
B49b=1  
B49c=1  
B49d=1  
B49e=1  
B49g=1  
B49h=1  
B49i=1  
B49j=1  
B49k=1

2) persistent fear of circumscribed objects or situations:

B51=1 or B51a=1 (see note 1 below)

B. During some phase of the disturbance, exposure to the specific phobic stimulus (or stimuli) almost invariably provoked an immediate anxiety response:

B65=1.

C. The phobic object or situation was avoided or endured with intense anxiety:

B51a=1 or B58=1-3 or B63=1 or B64=1 or B65=1.

D. The fear or the avoidant behavior interfered with daily functioning or there is marked distress about having the fear:

B56=1 or B57=1 or B58=1.

F. The above fear was unrelated to the content of the obsessions of Obsessive Compulsive Disorder or the Trauma of Post-traumatic Stress Disorder. This criterion was not directly used in the UM-CIDI.

Notes:

1. In the UM-CIDI, the persistence criterion (A/F\_2) was made more stringent by imposing the following requirements: (a) B51=1, or (b) B51a=1 and the fear started a year ago and lasted for at least a year, or (c) the fear started in past year or past six months and was still going on in the past month. In the WHO-CIDI, however, the same criterion was operationalized as B51=1 or B51a=1.
2. Also in the WHO-CIDI, Criterion C didn't include B51a and B58 while Criterion C included B63 and B64.
3. In this section we asked an open-ended question (B49k) about whether respondents ever had any additional unreasonable fears. Ten cases were added to the diagnosis of Simple Phobia, for they not only had a fear that was of Simple Phobia in nature but also met all the other criteria for Social Phobia.

## **6. Criteria for Post-Traumatic Stress Disorder**

Post-Traumatic Stress Disorder (PTSD) is defined in DSM-III-R as including Criteria A to E which require the development of a set of anxiety symptoms following a psychologically distressing event that is outside the range of usual human experience. These criteria were operationalized in the UM-CIDI as follows:

A. Experience of any of the following events that are outside the range of usual human experience and that would be markedly distressing to almost anyone:

|      |       |
|------|-------|
| U1=1 | U7=1  |
| U2=1 | U8=1  |
| U3=1 | U9=1  |
| U4=1 | U10=1 |
| U5=1 | U11=1 |
| U6=1 | U12=1 |

It is worth noting that the UM-CIDI assessed these traumas in a respondent booklet that made it possible to ask about potentially embarrassing events such as rape or sexual assault without ever using the words "rape" or "sexual assault." The use of an explicit list and the respondent booklet method of administration diverge from the procedure first adopted in the Diagnostic Interview Schedule (from which these questions are adopted) to elicit information about lifetime traumas in a single open-ended question.

B. The traumatic event is persistently re-experienced in at least one of the following ways:

|       |
|-------|
| U16=1 |
| U17=1 |
| U18=1 |
| U19=1 |

C. Persistent avoidance of stimuli associated with the trauma or numbing of general responsiveness (not present before the trauma), as indicated by at least three of the following:

|       |       |
|-------|-------|
| U21=1 | U25=1 |
| U22=1 | U26=1 |
| U23=1 | U27=1 |
| U24=1 |       |

D. Persistent symptoms of increased arousal (not present before the trauma), as indicated by at least two of the following:

U29=1

U30=1

U31=1

U32=1

U33=1

U34=1

E. Duration of the disturbance for at least one month: U37=> 1 month.

## SECTION IV. SUBSTANCE USE DISORDERS

### 1. Criteria for Substance Abuse

Substance (drugs and alcohol) Abuse is defined in DSM-III-R as either continued use of the psychoactive substance despite knowledge of its adverse effect on health and social functioning or recurrent use of the substance in situations when use is physically hazardous. This diagnosis is made only when the criteria for dependence for that particular class of substance have never been met. These criteria were operationalized in the UM-CIDI as follows:

The presence of any one of the following symptoms which indicate either continued use of the substance despite knowledge of having a persistent/recurrent social, occupational, psychological, or physical problem that is caused or exacerbated by use of the psychoactive substance or recurrent use in situations in which use is physically hazardous (e.g., driving while intoxicated):

G32a=1 + recoding:2s or G32e=1

G33a=1 + recoding:2s

G34a=1 often

G36a=1 often

G37a=1 + recoding:2s or G41a=1

G38a=1 + recoding:2s

The duration criterion -- continued use or recurrent use -- is either built into the original questions by emphasizing the phrase "often" or recoded in the diagnostic program as symptoms lasting at least one year (recording procedures are specified in Attachment I).

Although DSM-III-R requires that a respondent not have a diagnosis of Abuse once he or she meets the requirements for Dependence, it is possible for an individual to have a lifetime diagnosis of Abuse prior to the age of first becoming Dependent. In order to capture this information, our program diagnoses Abuse for all respondents irrespective of their meeting criteria for Dependence. Among people who have a lifetime history of both disorders, their diagnosis would have been Abuse up to the age of onset of Dependence and Dependence thereafter. Consistent with previous research, the NCS results show that Dependence typically occurs at a later age than Abuse and that the vast majority of persons with lifetime Dependence also meet criteria for Abuse.

---

\* "2s" refers to recoding methods 2\_(1), 2\_(2)\_a, and 2\_(2)\_b.

## 2. Criteria for Substance Dependence

Substance (drugs and alcohol) Dependence is defined in DSM-III-R as including criteria A and B which require the presence of the physiologic symptoms of tolerance and withdrawal and continued use of the substance despite adverse consequences. These criteria were operationalized in the UM-CIDI as follows:

A. Presence of at least three of the following nine characteristic symptoms of dependence:

- #1      G47a=1  
        G48a=1
- #2      G42a=1  
        G43a=1  
        G44a=1
- #3      G46a=1
- #4      G30a=1  
        G31a=1  
        G34a=1
- #5      G52a=1
- #6      G32a=1 + recoding:2s or G32e=1  
        G33a=1 + recoding:2s  
        G36a (G35a)=1  
        G37a=1 + recoding:2s or G41a=1  
        G38a=1 + recoding:2s
- #7      G49a=1
- #8      G50a=1
- #9      G51a=1  
        (missing b, c, d) \*

B. Presence of at least two of the following symptoms that have either occurred very often or persisted for at least one year:

- #1      G47a=1                      often  
        G48a=1                      often
- #2      G42a=1                      recoding:(2)s  
        G43a=1                      recoding:(2)s  
        G44a=1                      recoding:(2)s

|    |                                |               |
|----|--------------------------------|---------------|
| #3 | G46a=1                         | often         |
| #4 | G30a=1                         | often         |
|    | G31a=1                         | often         |
|    | G34a=1                         | often         |
| #5 | G52a=1                         | recoding:(2)s |
| #6 | G36a (G35a)=1                  | often         |
|    | G32a=1 + recoding:2s or G32e=1 |               |
|    | G33a=1 + recoding:2s           |               |
|    | G37a=1 + recoding:2s or G41a=1 |               |
|    | G38a=1 + recoding:2s           |               |
| #7 | G49a=1                         | recoding:(2)s |
| #8 | G50a=1                         | recoding:(2)s |
| #9 | G51a=1                         | none          |
|    | (missing b, c, d) *            |               |

\* Criterion 9 was not evaluated for twelve month diagnoses in the NCS. It is, however, possible to use the information in G50b-d to substitute the missing G51b-d when the respondent has answered Yes to both G50a and G51a. We leave this to the discretion of the users.

\*\* "2s" refers to recoding methods 2\_(1), 2\_(2)\_a, and 2\_(2)\_b and "(2)s" refers to recoding methods 2\_(2)\_a and 2\_(2)\_b.

Attachment I. Recoding Procedures for Both Abuse and Dependence Disorders

1. Some items automatically qualify for the duration criterion and they are indicated by the word "often".
2. Other items need to be recoded to meet this criterion and they are indicated by the word "recoding." The aim of recoding is to determine whether substance use ever lasted a year or more. Two types of recoding methods are specified here:
  - (1) the criterion is met if the recency of the problem is last year ( $Gxxc \leq 3$ ) and the age of recency, which in this case is R's current age, is larger than the age of onset:  
 $Gxxc ^= 4$  and Current age >  $Gxxb$     or  
if the recency of the problem is a year ago ( $Gxxc=4$ ) and the age of recency ( $Gxxd$ ) is larger than the age of onset ( $Gxxb$ ):  
 $Gxxc ^= 1-3$  and  $Gxxd > Gxxb$
  - (2) a for drug dependence (G1-G9): this criterion is met if the recency of use is last year ( $Gxd \leq 3$ ) and the age of recency of use, which in this case is R's current age, is larger than the age of the onset of the problem ( $Gxxb$ ):  
 $Gxd ^= 4$  and Current age >  $Gxxb$     or  
if the recency of use is more than a year ago ( $Gxd=4$ ) and the age of recency of use ( $Gxf$ ) is larger than the age of the onset of the problem ( $Gxxb$ ):  
 $Gxd ^= 1-3$  and  $Gxf > Gxxb$
  - (3) b for alcohol dependence (F1-F15): this criterion is met if R had 12 or more drinks in the past year (F5-F8) and R's current age is larger than the age of the onset of the problem ( $Gxxb$ ):  
 $F5 = A-G$  or  
 $F6 = A-H$  or    and    Current age >  $Gxxb$     or  
 $F7 = A-F$  or  
 $F8 = A-D$

if less than 12 drinks in the past year and the age of most excessive use (F11) is larger than the age of the onset of the problem (Gxxb):

F5-F8 < 12 and F11 > Gxxb

---

\* for all recordings Gxxa has to be checked as Yes.

Attachment II. Criteria For Tobacco Dependence: A Supplement:

There is no DSM-III-R diagnosis of Tobacco Abuse, but there is a diagnosis of Tobacco (Nicotine) Dependence. The criteria were operationalized in the UM-CIDI as follows:

A. Presence of at least three of the following six characteristic symptoms of dependence:

#1 CC13=1

#2 CC12=1

CC14=1

#3 CC15=1

#4 CC10=1

CC11=1

CC9=1

#5 CC8=1

#6 CC8c=1

B. Presence of at least two of the following symptoms that have either occurred very often or persisted for at least one year:

#1 CC13=1                    often

#2 CC12=1                    CC12a=1  
CC14=1                        \*

#3 CC15=1                    CC15a=1

#4 CC10=1                    CC10a=1  
CC11=1                        CC11a=1  
CC9=1                        \*

#5 CC8=1                    CC8a=>30    or    CC8b=1

#6 CC8c=1                    CC7=>2

---

\* We have no direct information on the duration of symptoms for CC14 and CC9. Respondents were coded as meeting criterion B if they have met criterion A and CC7=>2.

It should be noted that Tobacco Dependence was not included in the original NCS interview schedule, but was added in the second half of the study in response to a request from NIMH program staff. Therefore, information about age of onset and quantity and frequency of use is less detailed for tobacco than for the other drugs. New users of the instrument may want to include more detailed questions about quantity, frequency, and timing of use.

## SECTION V. OTHER DISORDERS

### 1. Criteria for Antisocial Personality Disorder

Antisocial Personality Disorder (ASP) is defined in DSM-III-R as including Criteria A to D which require a pattern of irresponsible and antisocial behavior beginning in childhood or early adolescence and continuing into adulthood. These criteria were operationalized in the UM-CIDI as follows:

- A. Current age is at least 18 years old:  $V12=>18$ .
- B. Evidence of Conduct Disorder with onset before age 15, as indicated by a history of three or more of the behavior listed in H1-H7 and H9-H12:  $H14=>3$ .
- C. A pattern of irresponsible and antisocial behavior since the age of 15, as indicated by at least four of the behaviors listed in H17-H25 and C<sub>9</sub>:  $(H26+C_9)=>4$ . On the list of Criterion C for ASP in DSM-III-R is an item (C<sub>9</sub>) that requires the absence of "a totally monogamous relationship for more than one year." This question was asked in the Marriage section in Part II of the NCS survey and operationalized here as (M3=5 or M41=5) or ((M9=5 and M14=5 and (M12-M7<=2)).
- D. Occurrence of antisocial behavior was not exclusively during the course of Schizophrenia or Manic Episodes:  $H29a=/=1$ .

#### a. Criteria for Adult Antisocial Behavior

Adult Antisocial Behavior (AAB) is defined in DSM-III-R as a persistent pattern of criminal or other aggressive / antisocial behavior in people who do not meet the full criteria for Antisocial Personality Disorder and whose antisocial behavior cannot be attributed to any other mental disorder. This diagnosis was operationalized in the UM-CIDI as meeting ASP criteria A and C.

## **2. Criteria for Conduct Disorder**

Conduct Disorder is defined in DSM-III-R as a persistent pattern of conduct in which the basic rights of others and major age-appropriate societal norms or rules are violated. This diagnosis is made only for people under age 18. For the diagnosis of lifetime Conduct Disorder, the age criterion was dropped in the UM-CIDI: H14=>3.

### **3. Nonaffective Psychosis (NAP)**

The NCS assessed NAP using clinical reinterviews rather than the questions included in the CIDI. The reasons for this were (i) that the ECA Study, which used very similar questions to these in the CIDI to assess NAP, obtained diagnoses with extremely low positive predictive value, and (ii) our own experience training lay interviewers in this section for the NCS pilot studies verified that these interviewers have great difficulty making the judgments required for valid diagnosis.

Therefore, modified versions of the CIDI NAP symptom questions were used as first-stage screens for psychosis in the NCS, followed by clinical reinterviews to diagnose NAP. The latter interviews were carried out under the direct supervision of Jamie Abelson, MSW and under the clinical supervision of Kenneth Kendler, MD. A separate report by Kendler et al. describes the procedures and results of the clinical reinterview study for NAP.

## **Appendix A**

**Diagnostic Algorithms for NCS/DSM-III-R Disorders**

**NCS Working Paper #7**



```
*****;  
*****;  
*          *;  
*      NCS Diagnostic Computer Programs For      *;  
*          *;  
*          DSM-III-R      *;  
*          *;  
*      Affective/ Anxiety/ Substance Abuse and Dependenc Disorders      *;  
*          *;  
*          March 1994      *;  
*          *;  
*****;  
*****;
```

```
*****;
*
*      1. Not Affective Psychosis (n=50): Nap50      *;
*                                              *;
*****;
```

\* NAP50 was diagnosed on a case by case basis by experts  
in the NCS study. This variable was subsequently used  
in the diagnosis of some other disorders. If this  
diagnosis is not available to you, simply delete this  
variable in the following programs. Since the number  
of Nap50 cases is typically very small, deletion of this  
variable will make little impact on the diagnostic outcome  
in most cases.

;

```
*****;
*
*      2. Manic Episode: Man1, Man2, Hman      *;
*                                              *;
*****;
```

\*\*\* A: Persistent Mood - Elevated or Irritable  
F: not due to medication;

```
if (v312 eq 1 and v1604 ne 1) then elevate=1;  
if (v312 eq 1 and v1604 eq 1) then elevate=5;  
if (elevate ne 1 and v313 eq 1 and v1607 ne 1) then irritab=1;  
if (elevate ne 1 and v313 eq 1 and v1607 eq 1) then irritab=5;
```

```
*****;
*** BF: Symptoms in Worst Spell not due to Medication;
```

```
if v1608 eq 1 and v7302 eq 1 and v7312 ne 1 then x1=1;  
if v1610 eq 1 and v7303 eq 1 and v7313 ne 1 then x2=1;  
if v1611 eq 1 and v7304 eq 1 and v7314 ne 1 then x3=1;  
if v1612 eq 1 and v7305 eq 1 and v7315 ne 1 then x4=1;
```

```

if x1 eq 1 or x2 eq 1           then x5=1;
if x3 eq 1 or x4 eq 1           then x6=1;
if v1613 eq 1 and v7306 eq 1 and v7316 ne 1 then x7=1;
if v1614 eq 1 and v7307 eq 1 and v7317 ne 1 then x8=1;
if v1615 eq 1 and v7308 eq 1 and v7318 ne 1 then x9=1;
if v1617 eq 1 and v7309 eq 1 and v7319 ne 1 then x10=1;
if v1618 eq 1 and v7310 eq 1 and v7320 ne 1 then x11=1;

if elevate eq 1 and sum(of x5--x11) > 2  then xel=1;
if elevate eq 1 and sum(of x5--x11) <=2  then xel=5;
if irritab eq 1 and sum(of x5--x11) > 3  then xbl=1;
if irritab eq 1 and sum(of x5--x11) <=3  then xbl=5;

if elevate eq 5 and sum(of x5--x11) > 2  then xelm=1;
if irritab eq 5 and sum(of x5--x11) > 3  then xb1m=1;

if xel=1 or xbl=1 then ABF1=1;

*****;
*** add comorbidity items;

if (xelm=1 or xb1m=1)      and
   (v1622=1 or v1623=5)      and
   ((v1749 ^=1 or v1750 ^=2) or
    (v1753 ^=1 or v1754 ^=1 or v1755 ^=2)) then ABF2=1;

*****;
*** C1: Functional Impairment for Mania
*** C2: Funcitonal Impairment for Hypomania;

if (v1636=1 or v1637=1)      then C=1;

*****;
*** DE: no overlap with schizophrenia;

if     v4338=1           and
   ((v4337=2 or v4337=3) and (v4340=2 and v4340=3))
       or v4341=1) and nap50=1 then DE=1;

*****;
*** make diagnoses;

```

```

if (ABF1=1 or ABF2=1) and C=1 then man1=1; else man1=0;
label man1= 'manic episode w/o hierarchy';

if man1=1 and DE^=1           then man2=1; else man2=0;
label man2= 'manic episode w hierarchy';

if (ABF1=1 or ABF2=1) and man1^=1
                           then hman=1; else hman=0;
label hman= 'hypomanic w/o hierarchy';

*****;
*** Onset, Recency;

      if v1640=1 then tmanons=1;
else if v1640=2 then tmanons=2;
else if v1640=3 then tmanons=3;
else if v1640=4 then tmanons=4;
else               tmanons=.;

      if          (1 <= v1640 <= 3)  then tmanonsa=v12;
else if v1640=4 and (1 <= v1642 <= 54) then tmanonsa=v1642;
else if v1640=4 and (1 <= v1643 <= 54) then tmanonsa=v1643;
else                           tmanonsa=.;

      if v1640=1 or v1644=1 then tmanrec=1;
else if v1644=2             then tmanrec=2;
else if v1644=3             then tmanrec=3;
else if v1644=4             then tmanrec=4;
else                         tmanrec=.;

      if v1640=1 or  (1 <= v1644 <= 3)  then tmanreca=v12;
else if v1644=4 and (1 <= v1645 <= 54) then tmanreca=v1645;
else                           tmanreca=.;

if man1=1 then do;

  manons=tmanons; manonsa=tmanonsa;
  manrec=tmanrec; manreca=tmanreca; end;

if hman=1 then do;

```

```

hmanons=tmanons; hmanonsa=tmanonса;
hmanrec=tmanrec; hmanreca=tmanreca; end;

*****
*;
*      3. Major Depressive Episode: Dep1, Dep2
*;
*;
*****;

A1=0; A2=0; B=0; CD=0;

*** A_1: depressed for at least 2 weeks;

if v306=1 or v308=1 or v309=1 then ds9=1;
if v1121=1 and v1419=1 and v1519 ^=1 then ds8=1;

if ds8=1 or ds9=1 then A1=1;

*****
*** A_2: five or more depressive symptoms including ds8 & ds9;

if v1101=1 and v1401=1 and v1501 ^=1 then sx1=1;
if v1103=1 and v1403=1 and v1503 ^=1 then sx2=1;
if v1105=1 and v1404=1 and v1504 ^=1 then sx3=1;
if v1106=1 and v1405=1 and v1505 ^=1 then sx4=1;

if v1108=1 and v1406=1 and v1506 ^=1 then sx5=1;
if v1110=1 and v1408=1 and v1508 ^=1 then sx6=1;
if v1112=1 and v1410=1 and v1510 ^=1 then sx7=1;
if v1114=1 and v1412=1 and v1512 ^=1 then sx8=1;

if v1115=1 and v1413=1 and v1513 ^=1 then sx9=1;

if v1118=1 and v1416=1 and v1516 ^=1 then sx10=1;
if v1120=1 and v1418=1 and v1518 ^=1 then sx11=1;

if v1126=1 and v1424=1           then sx12=1;
if v1129=1 and v1427=1           then sx13=1;

if v1133=1 and v1431=1 and v1531 ^=1 then sx14=1;
if v1135=1 and v1433=1 and v1533 ^=1 then sx15=1;

```

```

if v1136=1 and v1434=1 and v1534 ^=1 then sx16=1;

if v1141=1 and v1436=1           then sx17=1;
if v1142=1 and v1437=1           then sx18=1;
if v1143=1 and v1438=1           then sx19=1;
if v1144=1 and v1439=1           then sx20=1;

if sx1=1 or sx2=1 or sx3=1 or sx4=1      then ds1=1;
if sx5=1 or sx6=1 or sx7=1 or sx8=1      then ds2=1;
if sx9=1                                then ds3=1;
if sx10=1 or sx11=1                     then ds4=1;
if sx12=1 or sx13=1                     then ds5=1;
if sx14=1 or sx15=1 or sx16=1          then ds6=1;
if sx17=1 or sx18=1 or sx19=1 or sx20=1 then ds7=1;

sxdep=sum(ds1,ds2,ds3,ds4,ds5,ds6,ds7,ds8,ds9);
if sxdep>=5 then A2=1;

*****;
*** B: not due to Bereavement;

if v1235=1 and (v1234 =>84 and v1234<=95) then len1=1;
if v1235=2 and (v1234 =>12 and v1234<=95) then len1=2;
if v1235=3 and (v1234 =>3   and v1234<=95) then len1=3;
if v1235=4 and (v1234 =>1   and v1234<=95) then len1=4;

if v1341=1 and (v1340 =>84 and v1340<=95) then len2=1;
if v1341=2 and (v1340 =>12 and v1340<=95) then len2=2;
if v1341=3 and (v1340 =>3   and v1340<=95) then len2=3;
if v1341=4 and (v1340 =>1   and v1340<=95) then len2=4;

D63=0; D74=0; D19=0; D27=0; D43=0; D44=0; D55=0;

if len1=1 or len1=2 or len1=3 or len1=4 then D63=1;
if len2=1 or len2=2 or len2=3 or len2=4 then D74=1;
if v1416=1                                then D19=1;
if v1424=1                                then D27=1;
if v1438=1                                then D43=1;
if v1439=1                                then D44=1;
if v1220=1                                then D55=1;
count=sum(of D63 D74 D19 D27 D43 D44 D55);

if v1228=5 or (v1305=5 or v1306=1) then death1=1;
if count > 2                               then death2=1;

```

```

if death1=1 or death2=1 then B=1;

*****
*** C: never had mania or hypomania;
*** D: not due to schizophrenia;

if man1=1 or hman=1 then ddrop1=1;

if (((v4337=2 or v4337=3) and (v4340=2 or v4340=3)) or
    v4341=1) and nap50=1 then ddrop2=1;

if ddrop1=1 or ddrop2=1 then CD=1;

*****
*** make diagnoses;

if A1=1 and A2=1 and B=1 then dep1=1; else dep1=0;
label dep1= 'MDE w/o hierarchy';

if dep1=1 and CD^=1      then dep2=1; else dep2=0;
label dep2= 'MDE w hierarchy';

*****
*** Onset, Recency;

if dep1=1 then do;

    if v1225=1 or v1236=1 then depons=1;
else if v1225=2 or v1236=2 then depons=2;
else if v1225=3 or v1236=3 then depons=3;
else if v1225=4 or v1236=4 then depons=4;
else                      depons=..;

if                  (1 <= v1225 <=3)  then deponsa=v12;
else if v1225=4 and (1 <= v1227 <=54) then deponsa=v1227;
else if          (1 <= v1236 <=3)  then deponsa=v12;
else if v1236=4 and (1 <= v1238 <=54) then deponsa=v1238;
else if v1236=4 and (1 <= v1239 <=54) then deponsa=v1239;
else                      deponsa=..;

if (1 <= v1231 <=3) or v1230=2      then depreca=v12;
else if (1 <= v1233 <=54)           then depreca=v1233;
else if          (1 <= v1240 <=3)  then depreca=v12;

```

```
else if v1240=4 and (1 <= v1241 <=54) then depreca=v1241;
else
    depreca=..;

    if v1231=1 or v1230=2 or depons=1 or v1240=1 then deprec=1;
    else if v1231=2 or v1240=2
        then deprec=2;
    else if v1231=3 or v1240=3
        then deprec=3;
    else if v1231=4 or v1240=4
        then deprec=4;
    else
        deprec=..;

end;
```

```
*****
*
*          4. Dysthymia: Dys1, Dys2
*
*****
```

```
A=0; BG=0; C=0; DE=0;
```

```
*** A: depressed for at least two years;
```

```
if ((24 <= v1234 < 98) and v1235=3) or
((2 <= v1234 < 98) and v1235=4) then leng1=1;
if ((24 <= v1340 < 98) and v1341=3) or
((2 <= v1340 < 98) and v1341=4) then leng2=1;
if v306=1 or leng1=1 or leng2=1      then A=1;
```

```
*****
*** BG: two or more depressive symptoms not due to medication;
```

```
if v1101=1 and v1501 ^=1 then d2=1;
if v1105=1 and v1504 ^=1 then d6=1;

if v1108=1 and v1506 ^=1 then d9=1;
if v1110=1 and v1508 ^=1 then d11=1;
if v1112=1 and v1510 ^=1 then d13=1;
if v1114=1 and v1512 ^=1 then d15=1;

if v1115=1 and v1513 ^=1 then d16=1;

if v1133=1 and v1531 ^=1 then d34=1;
if v1136=1 and v1534 ^=1 then d37=1;
```

```

if d2=1 or d6=1                      then b1=1;
if d9=1 or d11=1 or d13=1 or d15=1 then b2=1;
if d16=1                            then b3=1;
if v1130=1 or v1131=1                then b4=1;
if d34=1 or d37=1                  then b5=1;
if v1004=1                           then b6=1;

sxdys=sum(of b1--b6);

if sxdys=>2 and (v1205=1 or v1206=5) then BG=1;

*****;
*** C: depressed w/o two months interruption;

if v307=1 or leng1=1 or leng2=1 then C=1;

*****;
*** DE: hierarchy rules;

if man1=1 or hman=1 then sdrop1=1;

if (((v4337=2 or v4337=3) and (v4340=2 or v4340=3))
    or v4341=1) and nap50=1 then sdrop2=1;

if sdrop1=1 or sdrop2=1 then DE=1;

*****;
*** make diagnoses;

if A=1 and BG=1 and C=1 then dys1=1; else dys1=0;
label dys1= 'dysthymia w/o hierarchy';

*** if you don't like the UM recoding, use the following lines;
* if dys1=1 and DE^=1      then dys2=1; * else dys2=1;
* label dys2= 'dysthymia w hierarchy';

*****;
*** Onset, Recency;

if dys1=1 then do;
    dysons=4;

```

```

        if v1007=1 and 1<=v1008<=54 then dysonsa=v1008;
else if 1<=v1009<=54                      then dysonsa=v1009;
else if 1<=v1008<=54                      then dysonsa=v1008;
else if v1343=1 and 1<=v1344<=54 then dysonsa=v1344;
else if 1<=v1345<=54                      then dysonsa=v1345;
else if 1<=v1344<=54                      then dysonsa=v1344;
else if 1<=v1227<=54                      then dysonsa=v1227;
else                                         dysonsa=..;

        if 1<=v1015<=4 then dysrec=v1015;
else if 1<=v1231<=4 then dysrec=v1231;
else if v1230=2      then dysrec=1;
else if 1<=v1346<=4 then dysrec=v1346;
else                         dysrec=..;

        if 1<=v1015<=3          then dysreca=v12;
else if v1015=4 and 1<=v1016<=54 then dysreca=v1016;
else if 1<=v1346<=3          then dysreca=v12;
else if v1346=4 and 1<=v1347<=54 then dysreca=v1347;
else if v1230=2              then dysreca=v12;
else if 1<=v1231<=3          then dysreca=v12;
else if 1<=v1233<=54          then dysreca=v1233;
else                         dysreca=..;

end;

***** DYSDEP *****;

* The aim of this addition is to create a variable called
Dysdep that includes all the dysthymic cases overlapping
with Major Depressive Episode in the first two years since
onset. These cases should then be used in Criterion D to
be excluded from the diagnosis of Dysthymia with hierarchy.
;

*** excluding 105+188 cases due to overlaps with dep1;

*** 1) B3a=No and mood was more than 2 yrs;

if len1=1 and v307^=1 and dep1=1 then B3Aout1=1;
if len2=1 and v307^=1 and dep1=1 then B3Aout2=1;

*** 2) single episode mde ****;
dysend=dysonsa + 1;
if      (v1230=2 or 1<=v1231<4) then depend=v12; else if v1231=4 and
1<=v1233<=55 then depend=v1233;

```

```

if (dysend=>depend=>dysonsa) or (dysend=>deponsa=>dysonsa) then
oversn1=1;
if oversn1=1 and (v1010=1 or v1010=3) and dep1=1
then sinout1=1;
if oversn1=1 and v1010=2 and (dysreca<=depend or
(dysonsa<=dysreca<=dysend)) and dep1=1
then sinout2=1;
if deponsa<=dysonsa and depend=>dysreca and sinout1^=1 and
sinout2^=1 and B3Aout1^=1 and dep1=1 then sinout3=1;

*** 3) multiple episode mde ****;
if      v1343=1 and 1<=v1344<=55 then D76onsa=v1344;else if v1343=5
and 1<=v1345<=55 then D76onsa=v1345;
longonsa=(D76onsa + 1);
if      1<=v1348<=55 then D78onsa=v1348;else if v1348=95 and
1<=v1350<=55 then D78onsa=v1350;
if 1<=v1340<98 then long=v1340;

if      v1341=2 then do; longdep=long/52; end;
else if v1341=3 then do; longdep=long/12; end;
else if v1341=4 then      longdep=long;

if ((24<=v1011<98) and v1012=3) or
((2 <=v1011<98) and v1012=4) then yr2=1;

if ((60<=v1013<98) and v1014=1) or
((8 <=v1013<98) and v1014=2) or
((2 <=v1013<98) and v1014=3) or
((1 <=v1013<98) and v1014=4) then mth2=1;

if 1<=v1346<=3 then D77rec=v12;
longrec=(D77rec - 1);

D76len=(D77rec - D76onsa);

if      1<=v1346<=3 then D77reca=v12;
else if V1346=4 and 1<=v1347<=55 then D77reca=v1347;

if (dysonsa <= deponsa <= dysend) or
(dysonsa <= depreca <= dysend) or
(dysonsa <= D78onsa <= dysend) or
(dysonsa <= longonsa <= dysend) or
(dysonsa <= longrec <= dysend) then overmul=1;

if overmul=1 and v1010=1 and dep1=1    then mulout1=1;
if overmul=1 and v1010=2 and (v1301=5 or v1302=5 or v1303=5)

```

```

                        and dep1=1      then mulout2=1;
if D76onsa<=dysonsa and longonsa=>dysreca and dep1=1
                           then mulout3=1;
if longrec<=dysonsa and D77rec=>dysreca and dep1=1
                           then mulout4=1;
if (D76len<=longdep) and D76onsa<=dysend and D77reca=>dysreca
and dep1=1                  then mulout5=1;

*****
if B3Aout1=1 or sinout1=1 or    sinout2=1 or sinout3=1 or
B3Aout2=1 or mulout1=1 or    mulout2=1 or mulout3=1 or
mulout4=1 or mulout5=1 then dysdep=1; else dysdep=0;
*****

if dys1=1 and DE^=1 and dysdep^=1 then dys2=1; else dys2=0;
label dys2= 'dysthymia w hierarchy';

*****
*
*           5. GAD: gad1, gad2
*
*****
A=0; B=0; C=0; DE=0;

*** A: excessive worry for 6 months;

if v305=1 then month1=1;

if v304=1 and      v303=>180  then mth1=1;
if v304=2 and (24<=v303<=95) then mth2=1;
if v304=3 and (6 <=v303<=95) then mth3=1;
if v304=4 and (1 <=v303<=95) then mth4=1;
if (v303=98 or v303=99) and v305=1 then mth5=1;
if mth1=1 or mth2=1 or mth3=1 or mth4=1 or mth5=1 then month6=1;

if v803=1 or v804=1 then worry=1;
if v805=1             then thing2=1;

if month6=1 and worry=1 and thing2=1 then A=1;

```

```

*****;
*** B: worry unrelated to one's physical conditions;

if v806=1 or v807=2 then B=1;

*****;
*** C: worry not during mood or psychotic disorder;

if v1546=1 and ((v1547=2 or v1547=3) and (v1548=1 or v1548=3))
  or (v1556=1 and v1557=1 and ((v1558=2 or v1558=3) and
    (v1559=1 or v1559=3))) then gaddep=1; else gaddep=0;
if gaddep=1 and dep1=1 then gdrop1=1; else gdrop1=0;

if v4331=1 and ((v4332=2 or v4332=3) and (v4333=1 or v4333=3))
  and nap50=1 then gdrop2=1; else gdrop2=0;

if gdrop1=1 or gdrop2=1 then C=1;

*****;
*** DE: 6 or more anxiety symptoms not due to organic factors;

array s{23} v808-v830;
array p{23} v902-v924;
do i=1 to 23;
  if s{i}=1 and p{i}^=1 then s{i}=1; else s{i}=0;
end; drop i;

if v817=1 or v830=1 then set1=1; else set1=0;
if v820=1 or v825=1 then set2=1; else set2=0;
if v819=1 or v824=1 then set3=1; else set3=0;

array h{18} set1 set2 set3 v808-v816 v818 v821-v823 v826-v827;
count=0;
do i=1 to 18;
  if h{i}=1 then count=count+1;
end; drop i;
if count=>6 then DE=1;

*****;
*** exclude those with onset & recency inconsistency;

```



```

*** A: experienced at least one fear;

if v320=1 then A=1;

*****;
*** B: fear of collapsing and incapacitating symptoms;

if v323=1 or v324=1 then B=1;

*****;
*** C: symptoms of severe anxiety, avoidance, endurance;

if v321=1 or v322=1 or v325=1 or v334=1 or v335=1 or
(v337 in (1,2,3)) then C=1;

*****;
*** make diagnosis;

if A=1 and B=1 and C=1 then ago=1; else ago=0;
label ago= 'agoraphobia';

*****;
*** Onset, Recency;

if ago=1 then do;

    if v340=0 and          (1<=v339<= 3) then agonsa=v12;
else if v339=4 and v340=1 and (1<=v341<=56) then agonsa=v341;
else if v339=4 and          (1<=v342<=56) then agonsa=v342;
else if v339=4 and          (1<=v341<=56) then agonsa=v341;
else                                agonsa=.;

    if (1<=v339<=4)      then agons=v339;
else if agonsa lt v12   then agons=4;
else                                agons=.; 

    if v339=1 or  (1<=v343<=3)  then agreca=v12;
else if v343=4 and (1<=v344<=55) then agreca=v344;
else                                agreca=.;
```

```
    if v339=1 and v343=0 then agrec=1;
else if (1<=v343<=4)      then agrec=v343;
else                      agrec=.;
end;

*****
*                                         *;
*                                         *;
*             7. Simple Phobia: sim          *;
*                                         *;
*****                                         *;

AE=0; B=0; C=0; D=0;

*** A & E: persistent fear of a circumscribed stimulus;

if v511=1 and (v512=1 or v513=1) then AE=1;

*****
*** B: immediate anxiety response upon exposure;

if v533=1 then B=1;

*****
*** C: avoidance or endurance;

if v513=1 or v523 in (1,2,3) or v531=1 or v532=1 or v533=1 then C=1;

*****
*** D: functional impairment;

if v521=1 or v522=1 or v523=1 then D=1;

*****
*** make diagnosis;

if AE=1 and B=1 and C=1 and D=1 then sim=1; else sim=0;
```

```

label sim= 'simple phobia';

*****;
*** Onset, Recency;

if sim=1 then do;

    if (1<=v525<=4)      then simons=v525;
else                      simons=..;

    if v526=1 and 1<=v527<=54 then simonsa=v527;
else if 1<=v528<=54      then simonsa=v528;
else if 1<=v527<=54      then simonsa=v527;
else if 1<=v525<=3       then simonsa=v12;
else                      simonsa=..;

    if v525=1                  then simrec=1;
else if (1<=v529<=4)      then simrec=v529;
else                      simrec=..;

    if 1<=v529<=3            then simreca=v12;
else if 1<=v530<=54       then simreca=v530;
else                      simreca=..;

end;

*****;
*                                         *;
*                                         8. Social Phobia: soc          *;
*                                         *;
*****;

AF=0; C=0; D=0; E=0;

*** A & F: persistent fear of social phobic situations;

if v407=1 and (v408=1 or v409=1) then AF=1;

*****;
*** C: immediate anxiety response upon exposure;

if v429=1 or v430=1 then C=1;

```

```

*****;
*** D: avoidance or endurance;

if v409=1 or v419 in (1,2,3) or v427=1 or v428=1 or v429=1 then D=1;

*****;
*** E: functional impairment;

if v417=1 or v418=1 or v419=1 then E=1;

*****;
*** make diagnosis;

if AF=1 and C=1 and D=1 and E=1 then soc=1; else soc=0;
label soc= 'social phobia';

*****;
*** Onset, Recency;

if soc=1 then do;

      if (1<=v421<=4)          then socons=v421;
      else                         socons=.;

      if v422=1 and 1<=v423<=54 then soconsa=v423;
      else if 1<=v424<=54       then soconsa=v424;
      else if 1<=v423<=54       then soconsa=v423;
      else if 1<=v421<=3        then soconsa=v12;
      else                         soconsa=.;

      if v421=1                  then socrec=1;
      else if (1<=v425<=4)      then socrec=v425;
      else                         socrec=.;

      if 1<=socrec<=3 then socreca=v12;
      else if 1<=v426<=54     then socreca=v426;
      else                         socreca=.;

end;

```

```

*****;
*
*      9. Panic Disorder, Panic Attack: pd, pt
*;
*;
*****;

A=0; B=0; C=0; D=0; E=0;

*** A: sudden episode of intense fear;

if v301=1 and v609=1 then A=1;

*****;
*** B: frequency of attacks;

if ((v701 eq 1) or (v638 eq 1) or (v642 eq 1)) then B=1;

*****;
*** C: four or more panic symptoms;

if ((v610 eq 1) or (v626 eq 1)) then pa1=1;
if ((v612 eq 1) or (v616 eq 1)) then pa2=1;
if ((v624 eq 1) or (v625 eq 1)) then pa3=1;

array y{13} pa1-pa3 v611 v613-v615 v617-v620 v622-v623;
nom4=0; do i=1 to 13;
      if y{i}=1 then nom4=nom4+1;   end;

if nom4=>4 then C=1;

*****;
*** D: intensity of attacks;

if v629=1 then D=1;

*****;
*** E: not due to physical injury or organic factors;

```

```

if v718^=1 and v719^=1 then E=1;

*****;
**** exclude those always occurred in agoraphobic situations;

if (v732=1 or v733=1) and v734=5 then agout=1;

*****;
*** make diagnoses;

if A=1 and B=1 and C=1 and D=1 and E=1 and agout^=1 then pd=1; else
pd=0;
label pd= 'panic disorder';

if A=1 and C and D=1 then pt=1; else pt=0;
label pt= 'panic attacks';

*****;
*** Onset, Recency;

if pt=1 then do;

    if v630=1 then pt ons=1;
else if v630=2 then pt ons=2;
else if v630=3 then pt ons=3;
else if v630=4 then pt ons=4;
else
            pt ons=..;

    if
        (1 <= v630 <= 3)  then pt onsa=v12;
else if v630=4 and (1 <= v632 <= 54) then pt onsa=v632;
else if v630=4 and (1 <= v633 <= 54) then pt onsa=v633;
else
            pt onsa=..;

    if v630=1 or v634=1 then pt rec=1;
else if v634=2
            then pt rec=2;
else if v634=3
            then pt rec=3;
else if v634=4
            then pt rec=4;
else
            pt rec=..;

    if v630=1 or (1 <= v634 <= 3)  then pt reca=v12;
else if v634=4 and (1 <= v635 <= 54) then pt reca=v635;

```

```

else                                ptreca=.;  

end;  
  

if pd=1 then do;  
  

  if v638=1 and v639=1 and (1 <= v640 <= 54) then pdonsa=v640;  

  else if v638=1 and v639=5 and (1 <= v641 <= 54) then pdonsa=v641;  

  else if v642=1 and v643=1 and (1 <= v644 <= 54) then pdonsa=v644;  

  else if v642=1 and v643=5 and (1 <= v645 <= 54) then pdonsa=v645;  
  

  if pt ons=1 and pd=1           then pdons=1;  

  else if pt ons=2 and pd=1      then pdons=2;  

  else if pt ons=3 and pd=1      then pdons=3;  

  else if pt ons=4 and pd=1 and pdonsa=v12 then pdons=3;  

  else if pt ons=4 and pd=1 and pdonsa<v12 then pdons=4;  
  

pdrec =ptrec;  
  

pdreca=ptreca;  
  

end;  
.  
  

*****;  

*;  

*      10. Post-Traumatic Stress Disorder: ptsd      *;  

*;  

*****;  
  

A=0; B=0; C=0; D=0; E=0;  
  

*** A: experiencing a trauma;  

if v6101=1 or v6102=1 or v6104=1 or v6109=1 or v6114=1 or v6126=1 or  

v6138=1 or v6143=1 or v6144=1 or v6145=1 or v6201=1 or v6209=1  

then A=1;  
  

*****;*** B:  

re-experiencing the trauma;  

if v6217=1 or v6218=1 or v6219=1 or v6220=1 then B=1;  
  

*****;*** C:  

three or more avoidance reactions;  

array x{7} v6222-v6228;  

count1=0; do i=1 to 7;  

if x{i}=1 then count1=count1+1; end; drop i;

```

```

if count1=>3 then C=1;

*****;*** D:
two or more arousal symptoms;
array z{6} v6231-v6236;
count2=0; do i=1 to 6;
if z{i}=1 then count2=count2+1; end; drop i;
if count2=>2 then D=1;

*****;*** E:
duration of at least one month;
if (v6242=1 and v6241=>30 and v6241<=96) or (v6242=2 and v6241=>4
and v6241<=96) or
(v6242=3 and v6241=>1 and v6241<=96) or (v6242=4 and v6241=>1
and v6241<=96) or v6241=96
then E=1;
*****;*** make
diagnoses;

if A=1 and B=1 and C=1 and D=1 and E=1 then ptsd=1; else ptsd=0;label
ptsd= 'post-traumatic disorder';

```

```

*****;
*
*      11. Anti-social Personality Disorder: asp1, asp2      *;
*      *;                                              *;
*****;
```

```

len=v4516-v4509;
*** code item C_9: stable relations;

if v4503=5 or v4628=5 then sr1=5;
if v4513=5 and len<=2 and v4519=5 then sr2=5;

if sr1=5 or sr2=5 then sr=5; else sr=1;

if v3807=99 then v3807=.;

subtot=v3807;
if sr=1 then aspc=subtot;
* add sr to criterion C;
if sr=5 then aspc=subtot+1;

if v3812^=1 or (v3812=1 and nap50^=1 and Man1^=1 and hman^=1)
then mood=1; else mood=0;
```

```
*** make diagnoses;

if v3803=99 then v3803=.;

if v12=>18 and v3803=>3 and aspc=>4 then asp1=1; else asp1=0;
label asp1= 'asp w/o hierarchy';

if v12=>18 and v3803=>3 and aspc=>4
               and mood=1  then asp2=1; else asp2=0;
label asp2= 'asp w hierarchy';
```

```
*****
*                                         *;
*          12. Adult Anti-social Behavior: aab      *;
*                                         *;
*****;
```

```
if v12=>18 and aspc=>4 then aab=1; else aab=0;
label aab= 'adult anti-social behavior';
```

```
*****
*                                         *;
*          13. Conduct Disorder: cd      *;
*                                         *;
*****;
```

```
if v3803=>3 then cd=1; else cd=0;
label cd= 'conduct disorder';
```

```
*****
*****;
*****;
*                                         *;
*                                         *;
*          14. Substance Abuse and Dependence Disorders      *;
*                                         *;
*                                         *;
*****;
```

```

*****
* Substance Abuse and Dependence Disorders      *;
*                                              *;
*****;

/*
Overview of 6 drug programs:

(1) command file DRUG1.SAS creates the following variables:
    DLIFxxx: DEPENDENCE, LIFETIME

(2) command file DRUG2.SAS creates the following variables:
    DLOAxxx: DEPENDENCE, LIFETIME, ONSET AGE

(3) command file DRUG3.SAS creates the following variables:
    (** denotes: "Full Dependence Criteria Not Required")
    ** D1Pxxx: Dependence- Ever had at least 1 problem
    ** D1POAxxx: Dependence first Problem Onset Age
    ** DPRECxxx: Dependence problem, RECENCY
    ** DPRAGxxx: Dependence problem, RECENCY AGE
    DF1Yxxx: DEPENDENCE, FULL criteria in PAST 12 MONTHS (Y/N)
    DF1Mxxx: DEPENDENCE, FULL criteria in PAST MONTH

(4) command file DRUG4.SAS creates the following variables:
    ALIFxxx: ABUSE, LIFETIME
    ALOAxxx: ABUSE, LIFETIME, ONSET AGE
    ** APRECxxx: ABUSE, PROBLEM, RECENCY
    ** APRAGxxx: ABUSE, PROBLEM, RECENCY AGE
    ASRECxxx: ABUSE, SYMPTOM RECENCY
    ASRAGxxx: ABUSE, SYMPTOM RECENCY AGE
    AF1Yxxx: ABUSE, FULL criteria in PAST 12 MONTHS (Y/N)
    AF1Mxxx: ABUSE, FULL criteria in PAST MONTH

(5) command file TOBACCO.SAS creates the following variables:
    RCUSETOBOB: recency of use, tobacco
    DLIFTTOB: dependence lifetime tobacco
    DLOATOB: dependence lifetime ONSET AGE
    D1PTOB: ever had at least 1 problem with tobacco
    D1POATOBOB: dependence first problem ONSET AGE
    DPRECTOB: dependence problem RECENCY
    DPRAGTOB: dependence problem RECENCY AGE
    DF1YTOB: dependence full criteria in past year
    DF1MTOB: dependence full criteria in past 1 month

(6) command file DRUG5.SAS creates ANY CONTROLLED SUBSTANCE vars:
    DLIFCON: Dep Lifetime any controlled substance (exclude alc
and tob)
        DLOACON: Dep lifetime any controlled substance onset age
    ** D1POACON: Dep first prob onset age any controlled substance

```

\*\* DPRECCON: Dep problem recency any controlled substance  
\*\* DPRAGCON: Dep problem recency age any controlled substance  
ALIFCON: Abuse lifetime any controlled sub (exclud alc and tobacco)  
ALOACON: Abuse lifetime onset age any controlled substance  
\*\* APRECCON: Abuse Problem Recency any controlled substance  
\*\* APRAGCON: Abuse Problem recency age any controlled substance

\*\*\*\*\*

Note: Before writing programs in this section, we need to clean the data so that a respondent won't have valid information on the onset/recency of a symptom (Gxxb-d) unless the symptom has been endorsed (Gxxa=1). Otherwise, we need to modify the following types of conditional statements whenever they occur:

e.g., IF G32ATRQ=1 AND  
((1<=G32CTRQ<=3) AND (CRTAGE>G32BTRQ)) OR  
((G32CTRQ=4) AND (1<=DB32TRQ<=54))  
THEN TRQ32A6=1

which should be changed to

IF G32ATRQ=1 AND  
(((1<=G32CTRQ<=3) AND (CRTAGE>G32BTRQ)) OR  
((G32CTRQ=4) AND (1<=DB32TRQ<=54)))  
THEN TRQ32A6=1

The third parenthesis is added to make sure that all those who have met the duration criterion also met the symptom criterion.

```

*****;
*
*   setting all zero and  >= 96 to new code 999 (to eliminate      *;
*   problems with missing data in age comparisons) and assigning  *;
*   names to variable numbers                                     *;
*                                                               *;
*****;

array miss(*) v1801--v3757;
  do i=1 to dim(miss);
    if miss(i)=0 or miss(i)=. or miss(i) >= 96 then miss(i)=999;
  end;
  drop i;
crtage=v12;

/* vars for use with abuse of alcohol (drinks in past year)*/
f5=v1805; f6=v1806; f7=v1807; f8=v1808;

/* vars for later use with past year dependence*/
gld=v1822; g2d=v1830; g3d=v1838; g4d=v1846; g5d=v1904;
g6d=v1910; g7d=v1916; g8d=v1922; g9d=v1928;
/* RECENCY OF USE (sedative thru heroin)*/

rcusesed=v1822; rcusetrq=v1830; rcusesti=v1838;
rcuseags=v1846; rcuseinh=v1904; rcusemar=v1910;
rcusecoc=v1916; rcusehal=v1922; rcuseher=v1928;
/* vars holding "age first use"*/

agefsed=v1820;
ageftrq=v1828;
agefsti=v1836;
agefags=v1844;
agefinh=v1902;
agefmar=v1908;
agefcoc=v1914;
agefhal=v1920;
agefher=v1926;
g30aalc=v2002; g31aalc=v2102; g32aalc=v2202;
g33aalc=v2302; g34aalc=v2402; g36aalc=v2502;
g37aalc=v2602; g38aalc=v2702; g41aalc=v2802;
g42aalc=v2902; g43aalc=v3002; g44aalc=v3102;
g46aalc=v3202; g47aalc=v3302; g48aalc=v3402;
g49aalc=v3502; g50aalc=v3602; g51aalc=v3643;
g52aalc=v3702;
g30balc=v2003; g30calc=v2004; g30dalc=v2005;
g31balc=v2103; g31calc=v2104; g31dalc=v2105;
g32balc=v2203; g32calc=v2204; g32dalc=v2205; g32ealc=v2206;
g33balc=v2303; g33calc=v2304; g33dalc=v2305;
g34balc=v2403; g34calc=v2404; g34dalc=v2405;
g36balc=v2503;
g37balc=v2603; g37calc=v2604; g37dalc=v2605;
g38balc=v2703; g38calc=v2704; g38dalc=v2705;

```

```

g41balc=v2803; g41calc=v2804; g41dalc=v2805;
g42balc=v2903; g42calc=v2904; g42dalc=v2905;
g43balc=v3003; g43calc=v3004; g43dalc=v3005;
g44balc=v3103; g44calc=v3104; g44dalc=v3105;
g46balc=v3203; g46calc=v3204; g46dalc=v3205;
g47balc=v3303; g47calc=v3304; g47dalc=v3305;
g48balc=v3403; g48calc=v3404; g48dalc=v3405;
g49balc=v3503; g49calc=v3504; g49dalc=v3505;
g50balc=v3603; g50calc=v3604; g50dalc=v3605;
/* note: there is only g51a. the b,c,d were omitted*/
g52balc=v3703; g52calc=v3704; g52dalc=v3705;
g30ased=v2006; g31ased=v2106; g32ased=v2207;
g33ased=v2306; g34ased=v2406; g36ased=v2504;
g37ased=v2606; g38ased=v2706; g41ased=v2806;
g42ased=v2906; g43ased=v3006; g44ased=v3106;
g46ased=v3206; g47ased=v3306; g48ased=v3406;
g49ased=v3506; g50ased=v3606; g51ased=v3644;
g52ased=v3706;
g30bsed=v2007; g30csed=v2008; g30dsed=v2009;
g31bsed=v2107; g31csed=v2108; g31dsed=v2109;
g32bsed=v2208; g32csed=v2209; g32dsed=v2210; g32esed=v2211;
g1f=v1824;
g33bsed=v2307; g33csed=v2308; g33dsed=v2309;
g34bsed=v2407; g34csed=v2408; g34dsed=v2409;
g36bsed=v2505;
g37bsed=v2607; g37csed=v2608; g37dsed=v2609;
g38bsed=v2707; g38csed=v2708; g38dsed=v2709;
g41bsed=v2807; g41csed=v2808; g41dsed=v2809;
g42bsed=v2907; g42csed=v2908; g42dsed=v2909;
g43bsed=v3007; g43csed=v3008; g43dsed=v3009;
g44bsed=v3107; g44csed=v3108; g44dsed=v3109;
g46bsed=v3207; g46csed=v3208; g46dsed=v3209;
g47bsed=v3307; g47csed=v3308; g47dsed=v3309;
g48bsed=v3407; g48csed=v3408; g48dsed=v3409;
g49bsed=v3507; g49csed=v3508; g49dsed=v3509;
g50bsed=v3607; g50csed=v3608; g50dsed=v3609;
g52bsed=v3707; g52csed=v3708; g52dsed=v3709;
g30atrq=v2010; g31atrq=v2110; g32atrq=v2212;
g33atrq=v2310; g34atrq=v2410; g36atrq=v2506;
g37atrq=v2610; g38atrq=v2710; g41atrq=v2810;
g42atrq=v2910; g43atrq=v3010; g44atrq=v3110;
g46atrq=v3210; g47atrq=v3310; g48atrq=v3410;
g49atrq=v3510; g50atrq=v3610; g51atrq=v3645;
g52atrq=v3710;
g30btrq=v2011; g30ctrq=v2012; g30dtrq=v2013;
g31btrq=v2111; g31ctrq=v2112; g31dtrq=v2113;
g32btrq=v2213; g32ctrq=v2214; g32dtrq=v2215; g32etrq=v2216;
g2f=v1832;
g33btrq=v2311; g33ctrq=v2312; g33dtrq=v2313;
g34btrq=v2411; g34ctrq=v2412; g34dtrq=v2413;
g36btrq=v2507;
g37btrq=v2611; g37ctrq=v2612; g37dtrq=v2613;

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g38btrq=v2711; g38ctrq=v2712; g38dtrq=v2713;
g41btrq=v2811; g41ctrq=v2812; g41dtrq=v2813;
g42btrq=v2911; g42ctrq=v2912; g42dtrq=v2913;
g43btrq=v3011; g43ctrq=v3012; g43dtrq=v3013;
g44btrq=v3111; g44ctrq=v3112; g44dtrq=v3113;
g46btrq=v3211; g46ctrq=v3212; g46dtrq=v3213;
g47btrq=v3311; g47ctrq=v3312; g47dtrq=v3313;
g48btrq=v3411; g48ctrq=v3412; g48dtrq=v3413;
g49btrq=v3511; g49ctrq=v3512; g49dtrq=v3513;
g50btrq=v3611; g50ctrq=v3612; g50dtrq=v3613;
g52btrq=v3711; g52ctrq=v3712; g52dtrq=v3713;
g30asti=v2014; g31lasti=v2114; g32asti=v2217;
g33asti=v2314; g34asti=v2414; g36asti=v2508;
g37asti=v2614; g38asti=v2714; g41asti=v2814;
g42asti=v2914; g43asti=v3014; g44asti=v3114;
g46asti=v3214; g47asti=v3314; g48asti=v3414;
g49asti=v3514; g50asti=v3614; g51asti=v3646;
g52asti=v3714;
g30bsti=v2015; g30csti=v2016; g30dsti=v2017;
g31bsti=v2115; g31csti=v2116; g31dsti=v2117;
g32bsti=v2218; g32csti=v2219; g32dsti=v2220; g32esti=v2221;
g3f=v1840;
g33bsti=v2315; g33csti=v2316; g33dsti=v2317;
g34bsti=v2415; g34csti=v2416; g34dsti=v2417;
g36bsti=v2509;
g37bsti=v2615; g37csti=v2616; g37dsti=v2617;
g38bsti=v2715; g38csti=v2716; g38dsti=v2717;
g41bsti=v2815; g41csti=v2816; g41dsti=v2817;
g42bsti=v2915; g42csti=v2916; g42dsti=v2917;
g43bsti=v3015; g43csti=v3016; g43dsti=v3017;
g44bsti=v3115; g44csti=v3116; g44dsti=v3117;
g46bsti=v3215; g46csti=v3216; g46dsti=v3217;
g47bsti=v3315; g47csti=v3316; g47dsti=v3317;
g48bsti=v3415; g48csti=v3416; g48dsti=v3417;
g49bsti=v3515; g49csti=v3516; g49dsti=v3517;
g50bsti=v3615; g50csti=v3616; g50dsti=v3617;
g52bsti=v3715; g52csti=v3716; g52dsti=v3717;
g30aags=v2018; g31aags=v2118; g32aags=v2222;
g33aags=v2318; g34aags=v2418; g36aags=v2510;
g37aags=v2618; g38aags=v2718; g41aags=v2818;
g42aags=v2918; g43aags=v3018; g44aags=v3118;
g46aags=v3218; g47aags=v3318; g48aags=v3418;
g49aags=v3518; g50aags=v3618; g51aags=v3647;
g52aags=v3718;
g30bags=v2019; g30cags=v2020; g30dags=v2321;
g31bags=v2119; g31cags=v2120; g31dags=v2321;
g32bags=v2223; g32cags=v2224; g32dags=v2225; g32eags=v2226;
g4f=v1848;
g33bags=v2319; g33cags=v2320; g33dags=v2321;
g34bags=v2419; g34cags=v2420; g34dags=v2421;
g36bags=v2511;
g37bags=v2619; g37cags=v2620; g37dags=v2621;

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g38bags=v2719; g38cags=v2720; g38dags=v2721;
g41bags=v2819; g41cags=v2820; g41dags=v2821;
g42bags=v2919; g42cags=v2920; g42dags=v2921;
g43bags=v3019; g43cags=v3020; g43dags=v3021;
g44bags=v3119; g44cags=v3120; g44dags=v3121;
g46bags=v3219; g46cags=v3220; g46dags=v3221;
g47bags=v3319; g47cags=v3320; g47dags=v3321;
g48bags=v3419; g48cags=v3420; g48dags=v3421;
g49bags=v3519; g49cags=v3520; g49dags=v3521;
g50bags=v3619; g50cags=v3620; g50dags=v3621;
g52bags=v3719; g52cags=v3720; g52dags=v3721;
g30ainh=v2022; g31ainh=v2122; g32ainh=v2227;
g33ainh=v2322; g34ainh=v2422; g36ainh=v2512;
g37ainh=v2622; g38ainh=v2722; g41ainh=v2822;
g42ainh=v2922; g43ainh=v3022; g44ainh=v3122;
g46ainh=v3222; g47ainh=v3322; g48ainh=v3422;
g49ainh=v3522; g50ainh=v3622; g51ainh=v3648;
g52ainh=v3722;
g30binh=v2019; g30cinh=v2020; g30dinh=v2021;
g31binh=v2119; g31cinh=v2120; g31dinh=v2121;
g32binh=v2228; g32cinh=v2229; g32dinh=v2230; g32einh=v2231;
g5f=v1906;
g33binh=v2323; g33cinh=v2324; g33dinh=v2325;
g34binh=v2423; g34cinh=v2424; g34dinh=v2425;
g36binh=v2513;
g37binh=v2623; g37cinh=v2624; g37dinh=v2625;
g38binh=v2723; g38cinh=v2724; g38dinh=v2725;
g41binh=v2823; g41cinh=v2824; g41dinh=v2825;
g42binh=v2923; g42cinh=v2924; g42dinh=v2925;
g43binh=v3023; g43cinh=v3024; g43dinh=v3025;
g44binh=v3123; g44cinh=v3124; g44dinh=v3125;
g46binh=v3223; g46cinh=v3224; g46dinh=v3225;
g47binh=v3323; g47cinh=v3324; g47dinh=v3325;
g48binh=v3423; g48cinh=v3424; g48dinh=v3425;
g49binh=v3523; g49cinh=v3524; g49dinh=v3525;
g50binh=v3623; g50cinh=v3624; g50dinh=v3625;
g52binh=v3723; g52cinh=v3724; g52dinh=v3725;
g30amar=v2026; g31amar=v2126; g32amar=v2232;
g33amar=v2326; g34amar=v2426; g36amar=v2514;
g37amar=v2626; g38amar=v2726; g41amar=v2826;
g42amar=v2926; g43amar=v3026; g44amar=v3126;
g46amar=v3226; g47amar=v3326; g48amar=v3426;
g49amar=v3526; g50amar=v3626; g51amar=v3649;
g52amar=v3726;
g30bmar=v2027; g30cmar=v2028; g30dmar=v2029;
g31bmar=v2127; g31cmar=v2128; g31dmar=v2129;
g32bmar=v2233; g32cmar=v2234; g32dmar=v2235; g32emar=v2236;
g6f=v1912;
g33bmar=v2327; g33cmar=v2328; g33dmar=v2329;
g34bmar=v2427; g34cmar=v2428; g34dmar=v2429;
g36bmar=v2515;
g37bmar=v2627; g37cmar=v2628; g37dmar=v2629;

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g38bmar=v2727; g38cmar=v2728; g38dmar=v2729;
g41bmar=v2827; g41cmar=v2828; g41dmar=v2829;
g42bmar=v2927; g42cmar=v2928; g42dmar=v2929;
g43bmar=v3027; g43cmar=v3028; g43dmar=v3029;
g44bmar=v3127; g44cmar=v3128; g44dmar=v3129;
g46bmar=v3227; g46cmar=v3228; g46dmar=v3229;
g47bmar=v3327; g47cmar=v3328; g47dmar=v3329;
g48bmar=v3427; g48cmar=v3428; g48dmar=v3429;
g49bmar=v3527; g49cmar=v3528; g49dmar=v3529;
g50bmar=v3627; g50cmar=v3628; g50dmar=v3629;
g52bmar=v3727; g52cmar=v3728; g52dmar=v3729;
g30acoc=v2030; g31acoc=v2130; g32acoc=v2237;
g33acoc=v2330; g34acoc=v2430; g36acoc=v2516;
g37acoc=v2630; g38acoc=v2730; g41acoc=v2830;
g42acoc=v2930; g43acoc=v3030; g44acoc=v3130;
g46acoc=v3230; g47acoc=v3330; g48acoc=v3430;
g49acoc=v3530; g50acoc=v3630; g51acoc=v3650;
g52acoc=v3730;
g30bcoc=v2031; g30ccoc=v2032; g30dcoc=v2033;
g31bcoc=v2131; g31ccoc=v2132; g31dcoc=v2133;
g32bcoc=v2238; g32ccoc=v2239; g32dcoc=v2240; g32ecoc=v2241;

g7f=v1918;
g33bcoc=v2331; g33ccoc=v2332; g33dcoc=v2333;
g34bcoc=v2431; g34ccoc=v2432; g34dcoc=v2433;
g36bcoc=v2517;
g37bcoc=v2631; g37ccoc=v2632; g37dcoc=v2633;
g38bcoc=v2731; g38ccoc=v2732; g38dcoc=v2733;
g41bcoc=v2831; g41ccoc=v2832; g41dcoc=v2833;
g42bcoc=v2931; g42ccoc=v2932; g42dcoc=v2933;
g43bcoc=v3031; g43ccoc=v3032; g43dcoc=v3033;
g44bcoc=v3131; g44ccoc=v3132; g44dcoc=v3133;
g46bcoc=v3231; g46ccoc=v3232; g46dcoc=v3233;
g47bcoc=v3331; g47ccoc=v3332; g47dcoc=v3333;
g48bcoc=v3431; g48ccoc=v3432; g48dcoc=v3433;
g49bcoc=v3531; g49ccoc=v3532; g49dcoc=v3533;
g50bcoc=v3631; g50ccoc=v3632; g50dcoc=v3633;
g52bcoc=v3731; g52ccoc=v3732; g52dcoc=v3733;
g30ahal=v2034; g31ahal=v2134; g32ahal=v2242;
g33ahal=v2334; g34ahal=v2434; g36ahal=v2518;
g37ahal=v2634; g38ahal=v2734; g41ahal=v2834;
g42ahal=v2934; g43ahal=v3034; g44ahal=v3134;
g46ahal=v3234; g47ahal=v3334; g48ahal=v3434;
g49ahal=v3534; g50ahal=v3634; g51ahal=v3651;
g52ahal=v3734;
g30bhal=v2035; g30chal=v2036; g30dhal=v2037;
g31bhal=v2135; g31chal=v2136; g31dhal=v2137;
g32bhal=v2243; g32chal=v2244; g32dhal=v2245; g32ehal=v2246;

g8f=v1924;
g33bhal=v2335; g33chal=v2336; g33dhal=v2337;
g34bhal=v2435; g34chal=v2436; g34dhal=v2437;
g36bhal=v2519;
g37bhal=v2635; g37chal=v2636; g37dhal=v2637;

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g38bhal=v2735; g38chal=v2736; g38dhal=v2737;
g41bhal=v2835; g41chal=v2836; g41dhal=v2837;
g42bhal=v2935; g42chal=v2936; g42dhal=v2937;
g43bhal=v3035; g43chal=v3036; g43dhal=v3037;
g44bhal=v3135; g44chal=v3136; g44dhal=v3137;
g46bhal=v3235; g46chal=v3236; g46dhal=v3237;
g47bhal=v3335; g47chal=v3336; g47dhal=v3337;
g48bhal=v3435; g48chal=v3436; g48dhal=v3437;
g49bhal=v3535; g49chal=v3536; g49dhal=v3537;
g50bhal=v3635; g50chal=v3636; g50dhal=v3637;
g52bhal=v3735; g52chal=v3736; g52dhal=v3737;
g30aher=v2038; g31aher=v2138; g32aher=v2247;
g33aher=v2338; g34aher=v2438; g36aher=v2520;
g37aher=v2638; g38aher=v2738; g41aher=v2838;
g42aher=v2938; g43aher=v3038; g44aher=v3138;
g46aher=v3238; g47aher=v3338; g48aher=v3438;
g49aher=v3538; g50aher=v3638; g51aher=v3652;
g52aher=v3738;
g30bher=v2039; g30cher=v2040; g30dher=v2041;
g31bher=v2139; g31cher=v2140; g31dher=v2141;
g32bher=v2248; g32cher=v2249; g32dher=v2250; g32eher=v2251;
g9f=v1930;
g33bher=v2339; g33cher=v2340; g33dher=v2341;
g34bher=v2439; g34cher=v2440; g34dher=v2441;
g36bher=v2521;
g37bher=v2639; g37cher=v2640; g37dher=v2641;
g38bher=v2739; g38cher=v2740; g38dher=v2741;
g41bher=v2839; g41cher=v2840; g41dher=v2841;
g42bher=v2939; g42cher=v2940; g42dher=v2941;
g43bher=v3039; g43cher=v3040; g43dher=v3041;
g44bher=v3139; g44cher=v3140; g44dher=v3141;
g46bher=v3239; g46cher=v3240; g46dher=v3241;
g47bher=v3339; g47cher=v3340; g47dher=v3341;
g48bher=v3439; g48cher=v3440; g48dher=v3441;
g49bher=v3539; g49cher=v3540; g49dher=v3541;
g50bher=v3639; g50cher=v3640; g50dher=v3641;
g52bher=v3739; g52cher=v3740; g52dher=v3741;

```

```

*****
*;
*;
* Substance Dependence ;
*;
*****;

/* 1. DRUG1.SAS
   CRITERIA FOR SUBSTANCE DEPENDENCE

A. Criterion A: Symptoms of dependence
   At least 3 of A1 - A9
   (no exception for marijuana and hallucinogens)
   A1. often take larger amounts than intended G47a or G48a=YES
   A2. persistent desire or efforts to cut down G42a, G43a, or G44a=YES
   A3. a lot of time spent to get substance G46a=YES
   A4. frequent intoxication or use is hazardous G30a, G31a, or G34a=YES
   A5. activities given up G52a=YES
   A6. continued use despite negative effects
      G32a=YES plus additional comparisons of
      (1) age of recency of problem with age of onset of problem
      (2) age of recency of use with age of onset of use
      (3) (for Alcohol only) 12+ drinks/yr and current age > age
          of onset of problem
      OR
      < 12 drinks/yr and age recent use > age onset of problem
      G33a=YES plus additional comparisons (same as G32a)
      G36a=YES
      G37a=YES plus additional comparisons (same as G32a)
      G38a=YES plus additional comparisons (same as G32a)
   A7. marked tolerance G49a=YES
   A8. withdrawal symptoms G50a=YES
   A9. taken to relieve withdrawal symptoms G51a=YES

Criterion B: Symptoms persisted or repeated
The A criterion must be met in order for the B criterion to be met.
For Symptoms 1,3,4,6 criterion B is automatically met.
For Symptoms 2,5,7,8 a comparison is made of
   (1) age of recency of problem with age of onset of problem
       (same method as for symptom 6, Criterion A.)
```

\*/

```
***** ALCOHOL *****;
```

```
/* age in f11 minus age in b (valid if difference is in range of 1-54)*/  
/* age in d minus age in b (valid if difference is in range of 1-54)*/  
db32alc=g32dalc-g32balc;  
db33alc=g33dalc-g33balc;  
db37alc=g37dalc-g37balc;  
db38alc=g38dalc-g38balc;  
db42alc=g42dalc-g42balc;  
db43alc=g43dalc-g43balc;  
db44alc=g44dalc-g44balc;  
db49alc=g49dalc-g49balc;  
db50alc=g50dalc-g50balc;  
db52alc=g52dalc-g52balc;  
f11=v1812; /* f11 = age began drinking the most */  
lb32alc=f11-g32balc;  
lb33alc=f11-g33balc;  
lb37alc=f11-g37balc;  
lb38alc=f11-g38balc;
```

```
* Criterion A;
```

```
if g47aalc eq 1 or g48aalc eq 1 then alcal=1;  
if g42aalc eq 1 or g43aalc eq 1 or g44aalc eq 1 then alca2=1;  
if g46aalc eq 1 then alca3=1;  
if g30aalc eq 1 or g31aalc eq 1 or g34aalc eq 1 then alca4=1;  
if g52aalc eq 1 then alca5=1;  
if g32aalc eq 1 and  
    ((1 <= g32calc <= 3) and (crtage > g32balc))  
or ((g32calc eq 4) and (1 <= db32alc <=54)) then alc32a6=1;
```

```
/* alcohol only--use having 12 drinks in past yr as comparison var  
had at least 12 drinks in past year? 0=no 1=yes */
```

```
if (1 <= f5 <= 8)  
or (1 <= f6 <= 7)  
or (1 <= f7 <= 6)  
or (f7 eq 7 and (5 <= f8 <= 7))  
or (f7 eq 8 and f8 eq 5)  
or (1 <= f8 <= 4) then drkl2pyr=1;  
else drkl2pyr=0;
```

```
if g32aalc eq 1 and drkl2pyr eq 1 and (crtage > g32balc) then alc32a6=1;  
if g32aalc eq 1 and drkl2pyr eq 0 and (1 <= lb32alc <= 54) then alc32a6=2;  
if g32aalc eq 1 and g32ealc eq 1 then alc32a6=3;  
* repeat A6 criteria for G33 series;  
if g33aalc eq 1 and  
    ((1 <= g33calc <= 3) and (crtage > g33balc))  
or ((g33calc eq 4) and (1 <= db33alc <=54)) then alc33a6=1;  
if g33aalc eq 1 and drkl2pyr eq 1 and (crtage > g33balc) then alc33a6=2;  
if g33aalc eq 1 and drkl2pyr eq 0 and (1 <= lb33alc <=54) then alc33a6=3;
```

```

if g36aalc eq 1                                then alc36a6=1;
if g37aalc eq 1 and
  ((1 <= g37calc <= 3) and (crtage > g37balc))
  or ((g37calc eq 4) and (1 <= db37alc <= 54))      then alc37a6=1;
if g37aalc eq 1 and drkl2pyr eq 1 and (crtage > g37balc)  then alc37a6=2;
if g37aalc eq 1 and drkl2pyr eq 0 and (1 <= lb37alc <=54)  then alc37a6=3;
if g41aalc eq 1                                then alc41a6=1;
if g38aalc eq 1 and
  ((1 <= g38calc <= 3) and (crtage > g38balc))
  or ((g38calc eq 4) and (1 <= db38alc <=54))      then alc38a6=1;
if g38aalc eq 1 and drkl2pyr eq 1 and (crtage > g38balc)  then alc38a6=2;
if g38aalc eq 1 and drkl2pyr eq 0 and (1 <= lb38alc <=54)  then alc38a6=3;
if (1 <= alc32a6 <=3) or (1 <=alc33a6 <= 3) or (alc36a6 =1)
  or (1 <= alc37a6 <=3) or (alc41a6 eq 1)      or (1 <=alc38a6 <=3)
                                                then alca6=1;
if g49aalc eq 1                                then alca7=1;
if g50aalc eq 1                                then alca8=1;
if g51aalc eq 1                                then alca9=1;
alcatot=sum(of alcal-alca9);
if alcatot >= 3                                then alccrita=1;

```

\* B CRITERIA;

```

if alcal eq 1                                then alcbl=1;
if g42aalc eq 1 and
  (( 1 <= g42calc <= 3) and (crtage > g42balc))
  or ((g42calc eq 4) and (1 <= db42alc <=54))      then alc42b=1;
if g43aalc eq 1 and
  (( 1 <= g43calc <= 3) and (crtage > g43balc))
  or ((g43calc eq 4) and (1 <= db43alc <=54))      then alc43b=1;
if g44aalc eq 1 and
  (( 1 <= g44calc <= 3) and (crtage > g44balc))
  or ((g44calc eq 4) and (1 <= db44alc <=54))      then alc44b=1;
if alc42b eq 1 or alc43b eq 1 or alc44b eq 1      then alc2b=1;
if g46aalc eq 1                                then alc3b=1;
if g30aalc eq 1 or g31aalc eq 1 or g34aalc eq 1  then alc4b=1;
if g52aalc eq 1 and
  (( 1 <= g52calc <= 3) and (crtage > g52balc))
  or ((g52calc eq 4) and (1 <= db52alc <=54))      then alc5b=1;
if alca6=1                                then alc6b=1;
if g49aalc eq 1 and
  (( 1 <= g49calc <= 3) and (crtage > g49balc))
  or ((g49calc eq 4) and (1 <= db49alc <=54))      then alc7b=1;
if g50aalc eq 1 and
  (( 1 <= g50calc <= 3) and (crtage > g50balc))
  or ((g50calc eq 4) and (1 <= db50alc <=54))      then alc8b=1;
alcbtot=sum(of alcbl-alcb8);
if alcbtot >= 2 then alccritb=1;

if alccrita eq 1 and alccritb eq 1 then dlifalc=1; else dlifalc=0;

```

```

***** SEDATIVES *****;

/* age in d minus age in b (valid if difference is in range of 1-54) */
db32sed=g32dsed-g32bsed;
db33sed=g33dsed-g33bsed;
db37sed=g37dsed-g37bsed;
db38sed=g38dsed-g38bsed;
db42sed=g42dsed-g42bsed;
db43sed=g43dsed-g43bsed;
db44sed=g44dsed-g44bsed;
db49sed=g49dsed-g49bsed;
db50sed=g50dsed-g50bsed;
db52sed=g52dsed-g52bsed;

/* age in glf minus age in b (valid if difference is in range of 1-54)
   glf = age last time used sed */

lb32sed=g1f-g32bsed;
lb33sed=g1f-g33bsed;
lb37sed=g1f-g37bsed;
lb38sed=g1f-g38bsed;

* A CRITERIA;

if g47ased eq 1 or g48ased eq 1 then seda1=1;
if g42ased eq 1 or g43ased eq 1 or g44ased eq 1 then seda2=1;
if g46ased eq 1 then seda3=1;
if g30ased eq 1 or g31ased eq 1 or g34ased eq 1 then seda4=1;
if g52ased eq 1 then seda5=1;
if g32ased eq 1 and
   ((1 <= g32csed <= 3) and (crtage > g32bsed))
   or ((g32csed eq 4) and (1 <= db32sed <=54)) then sed32a6=1;
if g32ased eq 1 and
   ((1 <= rcusesed <=3) and (crtage > g32bsed))
   or ((rcusesed eq 4) and (1 <= lb32sed <=54)) then sed32a6=2;
if g32ased eq 1 and g32esed eq 1 then sed32a6=3;
if g33ased eq 1 and
   ((1 <= g33csed <= 3) and (crtage > g33bsed))
   or ((g33csed eq 4) and (1 <= db33sed <=54)) then sed33a6=1;
if g33ased eq 1 and
   ((1 <= rcusesed <=3) and (crtage > g33bsed))
   or ((rcusesed eq 4) and (1 <= lb33sed <=54)) then sed33a6=2;
if g36ased eq 1 then sed36a6=1;

if g37ased eq 1 and
   ((1 <= g37csed <= 3) and (crtage > g37bsed))
   or ((g37csed eq 4) and (1 <= db37sed <=54)) then sed37a6=1;
if g37ased eq 1 and
   ((1 <= rcusesed <=3) and (crtage > g37bsed))
   or ((rcusesed eq 4) and (1 <= lb37sed <=54)) then sed37a6=2;

if g41ased eq 1 then sed41a6=1;

```

```

if g38ased eq 1 and
    ((1 <= g38csed <= 3) and (crtage > g38bsed))
or ((g38csed eq 4) and (1 <= db38sed <=54))    then sed38a6=1;

if g38ased eq 1 and
    ((1 <= rcusesed <=3) and (crtage > g38bsed))
or ((rcusesed eq 4) and (1 <= lb38sed <=54))    then sed38a6=2;
if (1 <= sed32a6 <=3) or (1 <=sed33a6 <= 2) or (sed36a6 =1)
or (1 <= sed37a6 <=2) or (sed41a6 eq 1) or (1 <= sed38a6 <=2)
then seda6=1;
if g49ased eq 1                                then seda7=1;
if g50ased eq 1                                then seda8=1;
if g51ased eq 1                                then seda9=1;
sedatot=sum(of sedal-seda9);
if sedatot >= 3 then sedcrita=1;

* B CRITERIA;

if sedal eq 1                                then sedb1=1;
if g42ased eq 1 and
    (( 1 <= g42csed <= 3) and (crtage > g42bsed))
or ((g42csed eq 4) and (1 <= db42sed <= 54))    then sed42b=1;
if g43ased eq 1 and
    (( 1 <= g43csed <= 3) and (crtage > g43bsed))
or ((g43csed eq 4) and (1 <= db43sed <= 54))    then sed43b=1;
if g44ased eq 1 and
    (( 1 <= g44csed <= 3) and (crtage > g44bsed))
or ((g44csed eq 4) and (1 <= db44sed <= 54))    then sed44b=1;
if sed42b eq 1 or sed43b eq 1 or sed44b eq 1    then sedb2=1;
if g46ased eq 1                                then sedb3=1;
if g30ased eq 1 or g31ased eq 1 or g34ased eq 1 then sedb4=1;
if g52ased eq 1 and
    (( 1 <= g52csed <= 3) and (crtage > g52bsed))
or ((g52csed eq 4) and (1 <= db52sed <= 54))    then sedb5=1;
if seda6=1                                     then sedb6=1;
if g49ased eq 1 and
    (( 1 <= g49csed <= 3) and (crtage > g49bsed))
or ((g49csed eq 4) and (1 <= db49sed <= 54))    then sedb7=1;
if g50ased eq 1 and
    (( 1 <= g50csed <= 3) and (crtage > g50bsed))
or ((g50csed eq 4) and (1 <= db50sed <= 54))    then sedb8=1;
sedbtot=sum(of sedb1-sedb8);
if sedbtot >= 2 then sedcritb=1;

if sedcrita eq 1 and sedcritb eq 1 then dlifsed=1; else dlifsed=0;

```

```
***** TRANQUILIZERS *****;
```

```
/* age in d minus age in b (valid if difference is in range of 1-54)*/  
db32trq=g32dtrq-g32btrq;  
db33trq=g33dtrq-g33btrq;  
db37trq=g37dtrq-g37btrq;  
db38trq=g38dtrq-g38btrq;  
db42trq=g42dtrq-g42btrq;  
db43trq=g43dtrq-g43btrq;  
db44trq=g44dtrq-g44btrq;  
db49trq=g49dtrq-g49btrq;  
db50trq=g50dtrq-g50btrq;  
db52trq=g52dtrq-g52btrq;  
  
/* age in g2f minus age in b (valid if difference is in range of 1-54)  
g2f - age last time used trq */  
lb32trq=g2f-g32btrq;  
lb33trq=g2f-g33btrq;  
lb37trq=g2f-g37btrq;  
lb38trq=g2f-g38btrq;
```

```
* A CRITERIA;
```

```
if g47atrq eq 1 or g48atrq eq 1 then trqal=1;  
if g42atrq eq 1 or g43atrq eq 1 or g44atrq eq 1 then trqa2=1;  
if g46atrq eq 1 then trqa3=1;  
if g30atrq eq 1 or g31atrq eq 1 or g34atrq eq 1 then trqa4=1;  
if g52atrq eq 1 then trqa5=1;  
if g32atrq eq 1 and  
    ((1 <= g32ctrq <= 3) and (crtage > g32btrq))  
    or ((g32ctrq eq 4) and (1 <= db32trq <=54)) then trq32a6=1;  
if g32atrq eq 1 and  
    ((1 <= rcusetrq <=3) and (crtage > g32btrq))  
    or ((rcusetrq eq 4) and (1 <= lb32trq <=54)) then trq32a6=2;  
if g32atrq eq 1 and g32etrq eq 1 then trq32a6=3;  
if g33atrq eq 1 and  
    ((1 <= g33ctrq <= 3) and (crtage > g33btrq))  
    or ((g33ctrq eq 4) and (1 <= db33trq <=54)) then trq33a6=1;  
if g33atrq eq 1 and  
    ((1 <= rcusetrq <=3) and (crtage > g33btrq))  
    or ((rcusetrq eq 4) and (1 <= lb33trq <=54)) then trq33a6=2;  
if g36atrq eq 1 then trq36a6=1;  
  
if g37atrq eq 1 and  
    ((1 <= g37ctrq <= 3) and (crtage > g37btrq))  
    or ((g37ctrq eq 4) and (1 <= db37trq <=54)) then trq37a6=1;  
if g37atrq eq 1 and  
    ((1 <= rcusetrq <=3) and (crtage > g37btrq))  
    or ((rcusetrq eq 4) and (1 <= lb37trq <=54)) then trq37a6=2;  
  
if g41atrq eq 1 then trq41a6=1;  
if g38atrq eq 1 and
```

```

    ((1 <= g38ctrq <= 3) and (crtage > g38btrq))
or  ((g38ctrq eq 4) and (1 <= db38trq <=54))      then trq38a6=1;

if g38atrq eq 1 and
    ((1 <= rcusetrq <=3) and (crtage > g38btrq))
    or ((rcusetrq eq 4) and (1 <= lb38trq <=54))      then trq38a6=2;
if  (1 <= trq32a6 <=3) or (1 <=trq33a6 <= 2) or (trq36a6 =1)
    or (1 <= trq37a6 <=2) or (trq41a6 eq 1) or (1 <= trq38a6 <=2)
        then trqa6=1;
if g49atrq eq 1                                then trqa7=1;
if g50atrq eq 1                                then trqa8=1;
if g51atrq eq 1                                then trqa9=1;
trqatot=sum(of trqal-trqa9);
if trqatot >= 3 then trqcrita=1;

* B CRITERIA;

if trqal eq 1                                then trqb1=1;
if g42atrq eq 1 and
    (( 1 <= g42ctrq <= 3) and (crtage > g42btrq))
    or ((g42ctrq eq 4) and (1 <= db42trq <= 54))      then trq42b=1;
if g43atrq eq 1 and
    (( 1 <= g43ctrq <= 3) and (crtage > g43btrq))
    or ((g43ctrq eq 4) and (1 <= db43trq <= 54))      then trq43b=1;
if g44atrq eq 1 and
    (( 1 <= g44ctrq <= 3) and (crtage > g44btrq))
    or ((g44ctrq eq 4) and (1 <= db44trq <= 54))      then trq44b=1;
if trq42b eq 1 or trq43b eq 1 or trq44b eq 1      then trqb2=1;
if g46atrq eq 1                                then trqb3=1;
if g30atrq eq 1 or g31atrq eq 1 or g34atrq eq 1  then trqb4=1;
if g52atrq eq 1 and
    (( 1 <= g52ctrq <= 3) and (crtage > g52btrq))
    or ((g52ctrq eq 4) and (1 <= db52trq <= 54))      then trqb5=1;
if trqa6=1                                      then trqb6=1;
if g49atrq eq 1 and
    (( 1 <= g49ctrq <= 3) and (crtage > g49btrq))
    or ((g49ctrq eq 4) and (1 <= db49trq <= 54))      then trqb7=1;
if g50atrq eq 1 and
    (( 1 <= g50ctrq <= 3) and (crtage > g50btrq))
    or ((g50ctrq eq 4) and (1 <= db50trq <= 54))      then trqb8=1;
trqbtot=sum(of trqb1-trqb8);
if trqbtot >= 2 then trqcritb=1;

if trqcrita eq 1 and trqcritb eq 1 then dliftrq=1; else dliftrq=0;

```

```

***** STIMULANTS *****;

/* age in d minus age in b (valid if difference is in range of 1-54) */
db32sti=g32dsti-g32bsti;
db33sti=g33dsti-g33bsti;
db37sti=g37dsti-g37bsti;
db38sti=g38dsti-g38bsti;
db42sti=g42dsti-g42bsti;
db43sti=g43dsti-g43bsti;
db44sti=g44dsti-g44bsti;
db49sti=g49dsti-g49bsti;
db50sti=g50dsti-g50bsti;
db52sti=g52dsti-g52bsti;

/* age in g3f minus age in b (valid if difference is in range of 1-54)
   g3f = age last time used sti*/
lb32sti=g3f-g32bsti;
lb33sti=g3f-g33bsti;
lb37sti=g3f-g37bsti;
lb38sti=g3f-g38bsti;

* A CRITERIA;

if g47asti eq 1 or g48asti eq 1 then stial=1;
if g42asti eq 1 or g43asti eq 1 or g44asti eq 1 then stia2=1;
if g46asti eq 1 then stia3=1;
if g30asti eq 1 or g31asti eq 1 or g34asti eq 1 then stia4=1;
if g52asti eq 1 then stia5=1;
if g32asti eq 1 and
   ((1 <= g32csti <= 3) and (crtage > g32bsti))
   or ((g32csti eq 4) and (1 <= db32sti <=54)) then sti32a6=1;
if g32asti eq 1 and
   ((1 <= rcusesti <=3) and (crtage > g32bsti))
   or ((rcusesti eq 4) and (1 <= lb32sti <=54)) then sti32a6=2;
if g32asti eq 1 and g32esti eq 1 then sti32a6=3;
if g33asti eq 1 and
   ((1 <= g33csti <= 3) and (crtage > g33bsti))
   or ((g33csti eq 4) and (1 <= db33sti <=54)) then sti33a6=1;
if g33asti eq 1 and
   ((1 <= rcusesti <=3) and (crtage > g33bsti))
   or ((rcusesti eq 4) and (1 <= lb33sti <=54)) then sti33a6=2;
if g36asti eq 1 then sti36a6=1;

if g37asti eq 1 and
   ((1 <= g37csti <= 3) and (crtage > g37bsti))
   or ((g37csti eq 4) and (1 <= db37sti <=54)) then sti37a6=1;
if g37asti eq 1 and
   ((1 <= rcusesti <=3) and (crtage > g37bsti))
   or ((rcusesti eq 4) and (1 <= lb37sti <=54)) then sti37a6=2;

if g41asti eq 1 then sti41a6=1;

```

```

* repeat A6 criteria for G38 series;
if g38asti eq 1 and
   ((1 <= g38csti <= 3) and (crtage > g38bsti))
or ((g38csti eq 4) and (1 <= db38sti <=54))      then sti38a6=1;

if g38asti eq 1 and
   ((1 <= rcusesti <=3) and (crtage > g38bsti))
or ((rcusesti eq 4) and (1 <= lb38sti <=54))    then sti38a6=2;
if (1 <= sti32a6 <=3) or (1 <=sti33a6 <= 2) or (sti36a6 -1)
or (1 <= sti37a6 <=2) or (sti41a6 eq 1) or (1 <= sti38a6 <=2)
then stia6=1;
if g49asti eq 1                               then stia7=1;
if g50asti eq 1                               then stia8=1;
if g51lasti eq 1                             then stia9=1;
stiatot=sum(of stial-stia9);
if stiatot >= 3 then sticrita=1;

* B CRITERIA;

if stial eq 1                                then stib1=1;
if g42asti eq 1 and
   (( 1 <= g42csti <= 3) and (crtage > g42bsti))
or ((g42csti eq 4) and (1 <= db42sti <= 54))  then sti42b=1;
if g43asti eq 1 and
   (( 1 <= g43csti <= 3) and (crtage > g43bsti))
or ((g43csti eq 4) and (1 <= db43sti <= 54))  then sti43b=1;
if g44asti eq 1 and
   (( 1 <= g44csti <= 3) and (crtage > g44bsti))
or ((g44csti eq 4) and (1 <= db44sti <= 54))  then sti44b=1;
if sti42b eq 1 or sti43b eq 1 or sti44b eq 1  then stib2=1;
if g46asti eq 1                               then stib3=1;
if g30asti eq 1 or g31lasti eq 1 or g34asti eq 1 then stib4=1;
if g52asti eq 1 and
   (( 1 <= g52csti <= 3) and (crtage > g52bsti))
or ((g52csti eq 4) and (1 <= db52sti <= 54))  then stib5=1;
if stia6=1                                    then stib6=1;
if g49asti eq 1 and
   (( 1 <= g49csti <= 3) and (crtage > g49bsti))
or ((g49csti eq 4) and (1 <= db49sti <= 54))  then stib7=1;
if g50asti eq 1 and
   (( 1 <= g50csti <= 3) and (crtage > g50bsti))
or ((g50csti eq 4) and (1 <= db50sti <= 54))  then stib8=1;
stibtot=sum(of stib1-stib8);
if stibtot >= 2 then sticritb=1;

if sticrita eq 1 and sticritb eq 1 then dlifsti=1; else dlifsti=0;

```

```
***** ANALGESICS *****;
```

```
/* age in d minus age in b (valid if difference is in range of 1-54)*/  
db32ags=g32dags-g32bags;  
db33ags=g33dags-g33bags;  
db37ags=g37dags-g37bags;  
db38ags=g38dags-g38bags;  
db42ags=g42dags-g42bags;  
db43ags=g43dags-g43bags;  
db44ags=g44dags-g44bags;  
db49ags=g49dags-g49bags;  
db50ags=g50dags-g50bags;  
db52ags=g52dags-g52bags;
```

```
/* age in g4f minus age in b (valid if difference is in range of 1-54)  
g4f = age last time used ags*/  
lb32ags=g4f-g32bags;  
lb33ags=g4f-g33bags;  
lb37ags=g4f-g37bags;  
lb38ags=g4f-g38bags;
```

```
* A CRITERIA;
```

```
if g47aags eq 1 or g48aags eq 1 then agsal=1;  
if g42aags eq 1 or g43aags eq 1 or g44aags eq 1 then agsa2=1;  
if g46aags eq 1 then agsa3=1;  
if g30aags eq 1 or g31aags eq 1 or g34aags eq 1 then agsa4=1;  
if g52aags eq 1 then agsa5=1;  
if g32aags eq 1 and  
    ((1 <= g32cags <= 3) and (crtage > g32bags))  
    or ((g32cags eq 4) and (1 <= db32ags <=54)) then ags32a6=1;  
if g32aags eq 1 and  
    ((1 <= rcuseags <=3) and (crtage > g32bags))  
    or ((rcuseags eq 4) and (1 <= lb32ags <=54)) then ags32a6=2;  
if g32aags eq 1 and g32eags eq 1 then ags32a6=3;  
if g33aags eq 1 and  
    ((1 <= g33cags <= 3) and (crtage > g33bags))  
    or ((g33cags eq 4) and (1 <= db33ags <=54)) then ags33a6=1;  
if g33aags eq 1 and  
    ((1 <= rcuseags <=3) and (crtage > g33bags))  
    or ((rcuseags eq 4) and (1 <= lb33ags <=54)) then ags33a6=2;  
if g36aags eq 1 then ags36a6=1;  
  
if g37aags eq 1 and  
    ((1 <= g37cags <= 3) and (crtage > g37bags))  
    or ((g37cags eq 4) and (1 <= db37ags <=54)) then ags37a6=1;  
if g37aags eq 1 and  
    ((1 <= rcuseags <=3) and (crtage > g37bags))  
    or ((rcuseags eq 4) and (1 <= lb37ags <=54)) then ags37a6=2;  
  
if g41aags eq 1 then ags41a6=1;  
if g38aags eq 1 and
```

```

((1 <= g38cags <= 3) and (crtage > g38bags))
or ((g38cags eq 4) and (1 <= db38ags <=54)) then ags38a6=1;

if g38aags eq 1 and
    ((1 <= rcuseags <=3) and (crtage > g38bags))
    or ((rcuseags eq 4) and (1 <= lb38ags <=54)) then ags38a6=2;
if (1 <= ags32a6 <=3) or (1 <=ags33a6 <= 2) or (ags36a6 =1)
    or (1 <= ags37a6 <=2) or (ags41a6 eq 1) or (1 <= ags38a6 <=2)
        then agsa6=1;
if g49aags eq 1
if g50aags eq 1
if g51aags eq 1
agsatot=sum(of agsal-agsa9);
if agsatot >= 3 then agscrita=1;

```

\* B CRITERIA;

```

if agsal eq 1                                then agsb1=1;
if g42aags eq 1 and
    (( 1 <= g42cags <= 3) and (crtage > g42bags))
    or ((g42cags eq 4) and (1 <= db42ags <= 54)) then ags42b=1;
if g43aags eq 1 and
    (( 1 <= g43cags <= 3) and (crtage > g43bags))
    or ((g43cags eq 4) and (1 <= db43ags <= 54)) then ags43b=1;
if g44aags eq 1 and
    (( 1 <= g44cags <= 3) and (crtage > g44bags))
    or ((g44cags eq 4) and (1 <= db44ags <= 54)) then ags44b=1;
if ags42b eq 1 or ags43b eq 1 or ags44b eq 1   then agsb2=1;
if g46aags eq 1                                then agsb3=1;
if g30aags eq 1 or g31aags eq 1 or g34aags eq 1 then agsb4=1;
if g52aags eq 1 and
    (( 1 <= g52cags <= 3) and (crtage > g52bags))
    or ((g52cags eq 4) and (1 <= db52ags <= 54)) then agsb5=1;
if agsa6=1                                     then agsb6=1;
if g49aags eq 1 and
    (( 1 <= g49cags <= 3) and (crtage > g49bags))
    or ((g49cags eq 4) and (1 <= db49ags <= 54)) then agsb7=1;
if g50aags eq 1 and
    (( 1 <= g50cags <= 3) and (crtage > g50bags))
    or ((g50cags eq 4) and (1 <= db50ags <= 54)) then agsb8=1;
agsbtot=sum(of agsb1-agsb8);
if agsbtot >= 2 then agscritb=1;

if agscrita eq 1 and agscritb eq 1 then dlifags=1; else dlifags=0;

```

```

***** INHALANTS *****;

/* age in d minus age in b (valid if difference is in range of 1-54)*/
db32inh=g32dinh-g32binh;
db33inh=g33dinh-g33binh;
db37inh=g37dinh-g37binh;
db38inh=g38dinh-g38binh;
db42inh=g42dinh-g42binh;
db43inh=g43dinh-g43binh;
db44inh=g44dinh-g44binh;
db49inh=g49dinh-g49binh;
db50inh=g50dinh-g50binh;
db52inh=g52dinh-g52binh;

/* age in g5f minus age in b (valid if difference is in range of 1-54)
   g5f = age last time used inh*/
lb32inh=g5f-g32binh;
lb33inh=g5f-g33binh;
lb37inh=g5f-g37binh;
lb38inh=g5f-g38binh;

* A CRITERIA;

if g47ainh eq 1 or g48ainh eq 1           then inhal=1;
if g42ainh eq 1 or g43ainh eq 1 or g44ainh eq 1 then inha2=1;
if g46ainh eq 1                           then inha3=1;
if g30ainh eq 1 or g31ainh eq 1 or g34ainh eq 1 then inha4=1;
if g52ainh eq 1                           then inha5=1;
if g32ainh eq 1 and
    ((1 <= g32cinh <= 3) and (crtage > g32binh))
  or ((g32cinh eq 4) and (1 <= db32inh <=54))  then inh32a6=1;
if g32ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g32binh))
  or ((rcuseinh eq 4) and (1 <= lb32inh <=54))  then inh32a6=2;
if g32ainh eq 1 and g32einh eq 1          then inh32a6=3;
if g33ainh eq 1 and
    ((1 <= g33cinh <= 3) and (crtage > g33binh))
  or ((g33cinh eq 4) and (1 <= db33inh <=54))  then inh33a6=1;
if g33ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g33binh))
  or ((rcuseinh eq 4) and (1 <= lb33inh <=54))  then inh33a6=2;
if g36ainh eq 1                           then inh36a6=1;

if g37ainh eq 1 and
    ((1 <= g37cinh <= 3) and (crtage > g37binh))
  or ((g37cinh eq 4) and (1 <= db37inh <=54))  then inh37a6=1;
if g37ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g37binh))
  or ((rcuseinh eq 4) and (1 <= lb37inh <=54))  then inh37a6=2;

if g41ainh eq 1                           then inh41a6=1;
if g38ainh eq 1 and

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    ((1 <= g38cinh <= 3) and (crtage > g38binh))
or ((g38cinh eq 4) and (1 <= db38inh <=54)) then inh38a6=1;

if g38ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g38binh))
    or ((rcuseinh eq 4) and (1 <= lb38inh <=54)) then inh38a6=2;
if (1 <= inh32a6 <=3) or (1 <=inh33a6 <= 2) or (inh36a6 =1)
    or (1 <= inh37a6 <=2) or (inh41a6 eq 1) or (1 <= inh38a6 <=2)
        then inha6=1;
if g49ainh eq 1                                then inha7=1;
if g50ainh eq 1                                then inha8=1;
if g51ainh eq 1                                then inha9=1;
inhatot=sum(of inhal-inha9);
if inhatot >= 3 then inhcrita=1;

```

\* B CRITERIA;

```

if inhal eq 1                                then inhbl=1;
if g42ainh eq 1 and
    (( 1 <= g42cinh <= 3) and (crtage > g42binh))
    or ((g42cinh eq 4) and (1 <= db42inh <= 54)) then inh42b=1;
if g43ainh eq 1 and
    (( 1 <= g43cinh <= 3) and (crtage > g43binh))
    or ((g43cinh eq 4) and (1 <= db43inh <= 54)) then inh43b=1;
if g44ainh eq 1 and
    (( 1 <= g44cinh <= 3) and (crtage > g44binh))
    or ((g44cinh eq 4) and (1 <= db44inh <= 54)) then inh44b=1;
if inh42b eq 1 or inh43b eq 1 or inh44b eq 1 then inhbtot=1;
if g46ainh eq 1                                then inhbtot=1;
if g30ainh eq 1 or g31ainh eq 1 or g34ainh eq 1 then inhbtot=1;
if g52ainh eq 1 and
    (( 1 <= g52cinh <= 3) and (crtage > g52binh))
    or ((g52cinh eq 4) and (1 <= db52inh <= 54)) then inhbtot=1;
if inha6=1                                      then inhbtot=1;
if g49ainh eq 1 and
    (( 1 <= g49cinh <= 3) and (crtage > g49binh))
    or ((g49cinh eq 4) and (1 <= db49inh <= 54)) then inhbtot=1;
if g50ainh eq 1 and
    (( 1 <= g50cinh <= 3) and (crtage > g50binh))
    or ((g50cinh eq 4) and (1 <= db50inh <= 54)) then inhbtot=1;
inhbtot=sum(of inhbl-inhb8);
if inhbtot >= 2 then inhcritb=1;

if inhcrita eq 1 and inhcritb eq 1 then dlifinh=1; else dlifinh=0;

```

```

***** MARIJUANA *****;

/* age in d minus age in b (valid if difference is in range of 1-54)*/
db32mar=g32dmar-g32bmar;
db33mar=g33dmar-g33bmar;
db37mar=g37dmar-g37bmar;
db38mar=g38dmar-g38bmar;
db42mar=g42dmar-g42bmar;
db43mar=g43dmar-g43bmar;
db44mar=g44dmar-g44bmar;
db49mar=g49dmar-g49bmar;
db50mar=g50dmar-g50bmar;
db52mar=g52dmar-g52bmar;

/* age in g6f minus age in b (valid if difference is in range of 1-54)
   g6f - age last time used mar*/
lb32mar=g6f-g32bmar;
lb33mar=g6f-g33bmar;
lb37mar=g6f-g37bmar;
lb38mar=g6f-g38bmar;

* A CRITERIA;

if g47amar eq 1 or g48amar eq 1 then maral=1;
if g42amar eq 1 or g43amar eq 1 or g44amar eq 1 then mara2=1;
if g46amar eq 1 then mara3=1;
if g30amar eq 1 or g31amar eq 1 or g34amar eq 1 then mara4=1;
if g52amar eq 1 then mara5=1;
if g32amar eq 1 and
   ((1 <= g32cmar <= 3) and (crtage > g32bmar))
or ((g32cmar eq 4) and (1 <= db32mar <=54)) then mar32a6=1;
if g32amar eq 1 and
   ((1 <= rcusemar <=3) and (crtage > g32bmar))
or ((rcusemar eq 4) and (1 <= lb32mar <=54)) then mar32a6=2;
if g32amar eq 1 and g32emar eq 1 then mar32a6=3;

if g33amar eq 1 and
   ((1 <= g33cmar <= 3) and (crtage > g33bmar))
or ((g33cmar eq 4) and (1 <= db33mar <=54)) then mar33a6=1;
if g33amar eq 1 and
   ((1 <= rcusemar <=3) and (crtage > g33bmar))
or ((rcusemar eq 4) and (1 <= lb33mar <=54)) then mar33a6=2;

if g36amar eq 1 then mar36a6=1;

if g37amar eq 1 and
   ((1 <= g37cmar <= 3) and (crtage > g37bmar))
or ((g37cmar eq 4) and (1 <= db37mar <=54)) then mar37a6=1;
if g37amar eq 1 and
   ((1 <= rcusemar <=3) and (crtage > g37bmar))
or ((rcusemar eq 4) and (1 <= lb37mar <=54)) then mar37a6=2;

```

```

if g41amar eq 1                                then mar41a6=1;

if g38amar eq 1 and
   ((1 <= g38cmar <= 3) and (crtage > g38bmar))
or  ((g38cmar eq 4) and (1 <= db38mar <=54))  then mar38a6=1;

if g38amar eq 1 and
   ((1 <= rcusemar <=3) and (crtage > g38bmar))
or  ((rcusemar eq 4) and (1 <= lb38mar <=54))  then mar38a6=2;
if  (1 <= mar32a6 <=3) or (1 <=mar33a6 <= 2) or (mar36a6 =1)
or (1 <= mar37a6 <=2) or (mar41a6 eq 1) or (1 <= mar38a6 <=2)
   then mara6=1;
if g49amar eq 1                                then mara7=1;
if g50amar eq 1                                then mara8=1;
if g51amar eq 1                                then mara9=1;
maratot=sum(of maral-mara9);
if maratot >= 3 then marcrita=1;

```

\* B CRITERIA;

```

if maral eq 1                                  then marbl=1;
if g42amar eq 1 and
   (( 1 <= g42cmar <= 3) and (crtage > g42bmar))
or ((g42cmar eq 4) and (1 <= db42mar <= 54))  then mar42b=1;
if g43amar eq 1 and
   (( 1 <= g43cmar <= 3) and (crtage > g43bmar))
or ((g43cmar eq 4) and (1 <= db43mar <= 54))  then mar43b=1;
if g44amar eq 1 and
   (( 1 <= g44cmar <= 3) and (crtage > g44bmar))
or ((g44cmar eq 4) and (1 <= db44mar <= 54))  then mar44b=1;
if mar42b eq 1 or mar43b eq 1 or mar44b eq 1  then marb2=1;
if g46amar eq 1                                then marb3=1;
if g30amar eq 1 or g31amar eq 1 or g34amar eq 1 then marb4=1;
if g52amar eq 1 and
   (( 1 <= g52cmar <= 3) and (crtage > g52bmar))
or ((g52cmar eq 4) and (1 <= db52mar <= 54))  then marb5=1;
if mara6=1                                      then marb6=1;
if g49amar eq 1 and
   (( 1 <= g49cmar <= 3) and (crtage > g49bmar))
or ((g49cmar eq 4) and (1 <= db49mar <= 54))  then marb7=1;
if g50amar eq 1 and
   (( 1 <= g50cmar <= 3) and (crtage > g50bmar))
or ((g50cmar eq 4) and (1 <= db50mar <= 54))  then marb8=1;
marbtot=sum(of marbl-marb8);
if marbtot >= 2 then marcritb=1;

if marcrita eq 1 and marcritb eq 1 then dlifmar=1; else dlifmar=0;

```

```

***** COCAINE *****;

/* age in d minus age in b (valid if difference is in range of 1-54) */
db32coc=g32dcoc-g32bcoc;
db33coc=g33dcoc-g33bcoc;
db37coc=g37dcoc-g37bcoc;
db38coc=g38dcoc-g38bcoc;
db42coc=g42dcoc-g42bcoc;
db43coc=g43dcoc-g43bcoc;
db44coc=g44dcoc-g44bcoc;
db49coc=g49dcoc-g49bcoc;
db50coc=g50dcoc-g50bcoc;
db52coc=g52dcoc-g52bcoc;

/* age in g7f minus age in b (valid if difference is in range of 1-54)
   g7f = age last time used coc */
lb32coc=g7f-g32bcoc;
lb33coc=g7f-g33bcoc;
lb37coc=g7f-g37bcoc;
lb38coc=g7f-g38bcoc;

* A CRITERIA;

if g47acoc eq 1 or g48acoc eq 1           then cocal=1;
if g42acoc eq 1 or g43acoc eq 1 or g44acoc eq 1 then coca2=1;
if g46acoc eq 1                           then coca3=1;
if g30acoc eq 1 or g31acoc eq 1 or g34acoc eq 1 then coca4=1;
if g52acoc eq 1                           then coca5=1;
if g32acoc eq 1 and
    ((1 <= g32ccoc <= 3) and (crtage > g32bcoc))
  or ((g32ccoc eq 4) and (1 <= db32coc <=54))  then coc32a6=1;
if g32acoc eq 1 and
    ((1 <= rcusecoc <=3) and (crtage > g32bcoc))
  or ((rcusecoc eq 4) and (1 <= lb32coc <=54))  then coc32a6=2;
if g32acoc eq 1 and g32ecoc eq 1          then coc32a6=3;
if g33acoc eq 1 and
    ((1 <= g33ccoc <= 3) and (crtage > g33bcoc))
  or ((g33ccoc eq 4) and (1 <= db33coc <=54))  then coc33a6=1;
if g33acoc eq 1 and
    ((1 <= rcusecoc <=3) and (crtage > g33bcoc))
  or ((rcusecoc eq 4) and (1 <= lb33coc <=54))  then coc33a6=2;
if g36acoc eq 1                           then coc36a6=1;

if g37acoc eq 1 and
    ((1 <= g37ccoc <= 3) and (crtage > g37bcoc))
  or ((g37ccoc eq 4) and (1 <= db37coc <=54))  then coc37a6=1;
if g37acoc eq 1 and
    ((1 <= rcusecoc <=3) and (crtage > g37bcoc))
  or ((rcusecoc eq 4) and (1 <= lb37coc <=54))  then coc37a6=2;

if g41acoc eq 1                           then coc41a6=1;
if g38acoc eq 1 and

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((1 <= g38ccoc <= 3) and (crtage > g38bcoc))
or ((g38ccoc eq 4) and (1 <= db38coc <=54)) then coc38a6=1;

if g38acoc eq 1 and
  ((1 <= rcusecoc <=3) and (crtage > g38bcoc))
  or ((rcusecoc eq 4) and (1 <= lb38coc <=54)) then coc38a6=2;
if (1 <= coc32a6 <=3) or (1 <=coc33a6 <= 2) or (coc36a6 =1)
  or (1 <= coc37a6 <=2) or (coc41a6 eq 1) or (1 <= coc38a6 <=2)
    then coca6=1;
if g49acoc eq 1 then coca7=1;
if g50acoc eq 1 then coca8=1;
if g51acoc eq 1 then coca9=1;
cocatot=sum(of cocal-coca9);
if cocatot >= 3 then coccrita=1;

```

\* B CRITERIA;

```

if cocal eq 1 then cocbl=1;
if g42acoc eq 1 and
  (( 1 <= g42ccoc <= 3) and (crtage > g42bcoc))
  or ((g42ccoc eq 4) and (1 <= db42coc <= 54)) then coc42b=1;
if g43acoc eq 1 and
  (( 1 <= g43ccoc <= 3) and (crtage > g43bcoc))
  or ((g43ccoc eq 4) and (1 <= db43coc <= 54)) then coc43b=1;
if g44acoc eq 1 and
  (( 1 <= g44ccoc <= 3) and (crtage > g44bcoc))
  or ((g44ccoc eq 4) and (1 <= db44coc <= 54)) then coc44b=1;
if coc42b eq 1 or coc43b eq 1 or coc44b eq 1 then cocb2=1;
if g46acoc eq 1 then cocb3=1;
if g30acoc eq 1 or g31acoc eq 1 or g34acoc eq 1 then cocb4=1;
if g52acoc eq 1 and
  (( 1 <= g52ccoc <= 3) and (crtage > g52bcoc))
  or ((g52ccoc eq 4) and (1 <= db52coc <= 54)) then cocb5=1;
if coca6=1 then cocb6=1;
if g49acoc eq 1 and
  (( 1 <= g49ccoc <= 3) and (crtage > g49bcoc))
  or ((g49ccoc eq 4) and (1 <= db49coc <= 54)) then cocb7=1;
if g50acoc eq 1 and
  (( 1 <= g50ccoc <= 3) and (crtage > g50bcoc))
  or ((g50ccoc eq 4) and (1 <= db50coc <= 54)) then cocb8=1;
cocbtot=sum(of cocbl-cocb8);
if cocbtot >= 2 then coccritb=1;

if coccrita eq 1 and coccritb eq 1 then dlifcoc=1; else dlifcoc=0;

```

```

***** HALLUCINOGENS *****;

/* age in d minus age in b (valid if difference is in range of 1-54)*/
db32hal=g32dhal-g32bhal;
db33hal=g33dhal-g33bhal;
db37hal=g37dhal-g37bhal;
db38hal=g38dhal-g38bhal;
db42hal=g42dhal-g42bhal;
db43hal=g43dhal-g43bhal;
db44hal=g44dhal-g44bhal;
db49hal=g49dhal-g49bhal;
db50hal=g50dhal-g50bhal;
db52hal=g52dhal-g52bhal;

/* age in g8f minus age in b (valid if difference is in range of 1-54)
   g8f = age last time used hal */
1b32hal=g8f-g32bhal;
1b33hal=g8f-g33bhal;
1b37hal=g8f-g37bhal;
1b38hal=g8f-g38bhal;

* A CRITERIA;

if g47ahal eq 1 or g48ahal eq 1                      then halal=1;
if g42ahal eq 1 or g43ahal eq 1 or g44ahal eq 1 then hala2=1;
if g46ahal eq 1                                      then hala3=1;
if g30ahal eq 1 or g31ahal eq 1 or g34ahal eq 1 then hala4=1;
if g52ahal eq 1                                      then hala5=1;
if g32ahal eq 1 and
   ((1 <= g32chal <= 3) and (crtage > g32bhal))
   or ((g32chal eq 4) and (1 <= db32hal <=54))    then hal32a6=1;
if g32ahal eq 1 and
   ((1 <= rcusehal <=3) and (crtage > g32bhal))
   or ((rcusehal eq 4) and (1 <= 1b32hal <=54))   then hal32a6=2;
if g32ahal eq 1 and g32ehal eq 1                     then hal32a6=3;
if g33ahal eq 1 and
   ((1 <= g33chal <= 3) and (crtage > g33bhal))
   or ((g33chal eq 4) and (1 <= db33hal <=54))   then hal33a6=1;
if g33ahal eq 1 and
   ((1 <= rcusehal <=3) and (crtage > g33bhal))
   or ((rcusehal eq 4) and (1 <= 1b33hal <=54))   then hal33a6=2;
if g36ahal eq 1                                      then hal36a6=1;

if g37ahal eq 1 and
   ((1 <= g37chal <= 3) and (crtage > g37bhal))
   or ((g37chal eq 4) and (1 <= db37hal <=54))   then hal37a6=1;
if g37ahal eq 1 and
   ((1 <= rcusehal <=3) and (crtage > g37bhal))
   or ((rcusehal eq 4) and (1 <= 1b37hal <=54))   then hal37a6=2;

if g41ahal eq 1                                      then hal41a6=1;
if g38ahal eq 1 and

```

```

    ((1 <= g38chal <= 3) and (crtage > g38bhal))
or ((g38chal eq 4) and (1 <= db38hal <=54)) then hal38a6=1;

if g38ahal eq 1 and
    ((1 <= rcusehal <=3) and (crtage > g38bhal))
    or ((rcusehal eq 4) and (1 <= lb38hal <=54)) then hal38a6=2;
if (1 <= hal32a6 <=3) or (1 <=hal33a6 <= 2) or (hal36a6 =1)
    or (1 <= hal37a6 <=2) or (hal41a6 eq 1) or (1 <= hal38a6 <=2)
        then hala6=1;
if g49ahal eq 1
    then hala7=1;
if g50ahal eq 1
    then hala8=1;
if g51ahal eq 1
    then hala9=1;
halatot=sum(of halal-hala9);
if halatot >= 3 then halcrita=1;

```

\* B CRITERIA;

```

if halal eq 1                                then halb1=1;
if g42ahal eq 1 and
    (( 1 <= g42chal <= 3) and (crtage > g42bhal))
    or ((g42chal eq 4) and (1 <= db42hal <= 54)) then hal42b=1;
if g43ahal eq 1 and
    (( 1 <= g43chal <= 3) and (crtage > g43bhal))
    or ((g43chal eq 4) and (1 <= db43hal <= 54)) then hal43b=1;
if g44ahal eq 1 and
    (( 1 <= g44chal <= 3) and (crtage > g44bhal))
    or ((g44chal eq 4) and (1 <= db44hal <= 54)) then hal44b=1;
if hal42b eq 1 or hal43b eq 1 or hal44b eq 1 then halb2=1;
if g46ahal eq 1                                then halb3=1;
if g30ahal eq 1 or g31ahal eq 1 or g34ahal eq 1 then halb4=1;
if g52ahal eq 1 and
    (( 1 <= g52chal <= 3) and (crtage > g52bhal))
    or ((g52chal eq 4) and (1 <= db52hal <= 54)) then halb5=1;
if hal46=1                                     then halb6=1;
if g49ahal eq 1 and
    (( 1 <= g49chal <= 3) and (crtage > g49bhal))
    or ((g49chal eq 4) and (1 <= db49hal <= 54)) then halb7=1;
if g50ahal eq 1 and
    (( 1 <= g50chal <= 3) and (crtage > g50bhal))
    or ((g50chal eq 4) and (1 <= db50hal <= 54)) then halb8=1;
halbtot=sum(of halb1-halb8);
if halbtot >= 2 then halcritb=1;

if halcrita eq 1 and halcritb eq 1 then dlifhal=1; else dlifhal=0;

```

```

***** HEROIN *****;

/* age in d minus age in b (valid if difference is in range of 1-54)*/
db32her=g32dher-g32bher;
db33her=g33dher-g33bher;
db37her=g37dher-g37bher;
db38her=g38dher-g38bher;
db42her=g42dher-g42bher;
db43her=g43dher-g43bher;
db44her=g44dher-g44bher;
db49her=g49dher-g49bher;
db50her=g50dher-g50bher;
db52her=g52dher-g52bher;

/* age in g9f minus age in b (valid if difference is in range of 1-54)
   g9f = age last time used her */
lb32her=g9f-g32bher;
lb33her=g9f-g33bher;
lb37her=g9f-g37bher;
lb38her=g9f-g38bher;

* A CRITERIA;

if g47aher eq 1 or g48aher eq 1      then heral=1;
if g42aher eq 1 or g43aher eq 1 or g44aher eq 1 then hera2=1;
if g46aher eq 1                      then hera3=1;
if g30aher eq 1 or g31aher eq 1 or g34aher eq 1 then hera4=1;
if g52aher eq 1                      then hera5=1;
if g32aher eq 1 and
   ((1 <= g32cher <= 3) and (crtage > g32bher))
   or ((g32cher eq 4) and (1 <= db32her <=54))    then her32a6=1;
if g32aher eq 1 and
   ((1 <= rcuseher <=3) and (crtage > g32bher))
   or ((rcuseher eq 4) and (1 <= lb32her <=54))    then her32a6=2;
if g32aher eq 1 and g32eher eq 1      then her32a6=3;
if g33aher eq 1 and
   ((1 <= g33cher <= 3) and (crtage > g33bher))
   or ((g33cher eq 4) and (1 <= db33her <=54))    then her33a6=1;
if g33aher eq 1 and
   ((1 <= rcuseher <=3) and (crtage > g33bher))
   or ((rcuseher eq 4) and (1 <= lb33her <=54))    then her33a6=2;
if g36aher eq 1                      then her36a6=1;

if g37aher eq 1 and
   ((1 <= g37cher <= 3) and (crtage > g37bher))
   or ((g37cher eq 4) and (1 <= db37her <=54))    then her37a6=1;
if g37aher eq 1 and
   ((1 <= rcuseher <=3) and (crtage > g37bher))
   or ((rcuseher eq 4) and (1 <= lb37her <=54))    then her37a6=2;

if g41aher eq 1                      then her41a6=1;
if g38aher eq 1 and

```

```

((1 <= g38cher <= 3) and (crtage > g38bher))
or ((g38cher eq 4) and (1 <= db38her <=54)) then her38a6=1;

if g38aher eq 1 and
  ((1 <= rcuseher <=3) and (crtage > g38bher))
  or ((rcuseher eq 4) and (1 <= lb38her <=54)) then her38a6=2;
if (1 <= her32a6 <=3) or (1 <=her33a6 <= 2) or (her36a6 =1)
  or (1 <= her37a6 <=2) or (her41a6 eq 1) or (1 <= her38a6 <=2)
    then hera6=1;
if g49aher eq 1                      then hera7=1;
if g50aher eq 1                      then hera8=1;
if g51aher eq 1                      then hera9=1;
heratot=sum(of herald-hera9);
if heratot >= 3 then hercrita=1;

```

\* B CRITERIA;

```

if herald eq 1                      then herb1=1;
if g42aher eq 1 and
  (( 1 <= g42cher <= 3) and (crtage > g42bher))
  or ((g42cher eq 4) and (1 <= db42her <= 54)) then her42b=1;
if g43aher eq 1 and
  (( 1 <= g43cher <= 3) and (crtage > g43bher))
  or ((g43cher eq 4) and (1 <= db43her <= 54)) then her43b=1;
if g44aher eq 1 and
  (( 1 <= g44cher <= 3) and (crtage > g44bher))
  or ((g44cher eq 4) and (1 <= db44her <= 54)) then her44b=1;
if her42b eq 1 or her43b eq 1 or her44b eq 1 then herb2=1;
if g46aher eq 1                      then herb3=1;
if g30aher eq 1 or g31aher eq 1 or g34aher eq 1 then herb4=1;
if g52aher eq 1 and
  (( 1 <= g52cher <= 3) and (crtage > g52bher))
  or ((g52cher eq 4) and (1 <= db52her <= 54)) then herb5=1;
if hera6=1                            then herb6=1;
if g49aher eq 1 and
  (( 1 <= g49cher <= 3) and (crtage > g49bher))
  or ((g49cher eq 4) and (1 <= db49her <= 54)) then herb7=1;
if g50aher eq 1 and
  (( 1 <= g50cher <= 3) and (crtage > g50bher))
  or ((g50cher eq 4) and (1 <= db50her <= 54)) then herb8=1;
herbtot=sum(of herb1-herb8);
if herbtot >= 2 then hercritb=1;

if hercrita eq 1 and hercritb eq 1 then dlifher=1; else dlifher=0;

```

```

*****;
/* 2. DRUG2.SAS
   DLOAxxx: DEPENDENCE, LIFETIME, ONSET AGE

      and/or 2nd A and/or 1st A and/or B age is missing.
      rank ages of A3rd, A2nd, Alst, B2nd, Blst and
      select max valid as the lifetime onset age
      (rather than imputing)
      exception: 2 cases still hand-coded see end of program

      Ages as stored in nshsdrug.ssd01 are set to 999 rather than '..'
      When using the min function, . is considered less than a value;
      But when a valid age is compared to 999 (as in crtage > 999) the
      expression is correctly evaluated as false.
*/
-----*-----|-----*-----;
|          ALCOHOL |-----*-----;

* A Criteria Ages;

  if dlifalc eq 1 and alcal eq 1 then
    oaalcon = min(g47balc,g48balc); else oaalcon=999;
  if dlifalc eq 1 and alca2 eq 1 then
    oaalcon2 = min(g42balc,g43balc,g44balc); else oaalcon2=999;
  if dlifalc eq 1 and alca3 eq 1 then oaalcon3 = g46balc; else oaalcon3=999;
  if dlifalc eq 1 and alca4 eq 1 then
    oaalcon4= min(g30balc,g31balc,g34balc); else oaalcon4=999;
  if dlifalc eq 1 and alca5 eq 1 then oaalcon5 = g52balc; else oaalcon5=999;
  if dlifalc eq 1 and alca6 eq 1 then
    oaalcon6 = min(g32balc,g33balc,g36balc,g37balc,g38balc,g41balc);
    else oaalcon6=999;
  if dlifalc eq 1 and alca7 eq 1 then oaalcon7 = g49balc; else oaalcon7=999;
  if dlifalc eq 1 and alca8 eq 1 then oaalcon8 = g50balc; else oaalcon8=999;

  /* there is no g51balc so cannot make oaalcon9 */

* B criteria ages;

  if dlifalc eq 1 and alcbl eq 1 then
    oaalconb1 = min(g47balc,g48balc); else oaalconb1=999;
  if dlifalc eq 1 and alcbl2 eq 1 then
    oaalconb2 = min(g42balc,g43balc,g44balc); else oaalconb2=999;
  if dlifalc eq 1 and alcbl3 eq 1 then oaalconb3 = g46balc; else oaalconb3=999;
  if dlifalc eq 1 and alcbl4 eq 1 then oaalconb4= min(g30balc,g31balc,g34balc);
    else oaalconb4=999;
  if dlifalc eq 1 and alcbl5 eq 1 then oaalconb5 = g52balc; else oaalconb5=999;
  if dlifalc eq 1 and alcbl6 eq 1 then
    oaalconb6 =min(g32balc,g33balc,g36balc,g37balc,g38balc,g41balc);
    else oaalconb6=999;
  if dlifalc eq 1 and alcbl7 eq 1 then oaalconb7 = g49balc; else oaalconb7=999;

```

```

if dlifalc eq 1 and alcb8 eq 1 then oaalc8 = g50balc; else oaalc8=999;

alca3rd=ordinal(3, oaalc1, oaalc2, oaalc3, oaalc4, oaalc5,
                 oaalc6, oaalc7, oaalc8);
alca2nd=ordinal(2, oaalc1, oaalc2, oaalc3, oaalc4, oaalc5,
                 oaalc6, oaalc7, oaalc8);
alcalst=ordinal(1, oaalc1, oaalc2, oaalc3, oaalc4, oaalc5,
                 oaalc6, oaalc7, oaalc8);
alcb2nd=ordinal(2, oaalc1, oaalc2, oaalc3, oaalc4, oaalc5,
                 oaalc6, oaalc7, oaalc8);
alclbst=ordinal(1, oaalc1, oaalc2, oaalc3, oaalc4, oaalc5,
                 oaalc6, oaalc7, oaalc8);

array missl(*) alca3rd alca2nd alcalst aclb2nd alcblst;
  do i=1 to dim(missl);
    if missl(i)=999 then missl(i)=.; end; drop i;

dloaalc=max(alca3rd,alca2nd,alcalst,aclb2nd,alcblst);

```

```

*-----*-----*-----*
|                               SEDATIVES
|-----*-----*-----*
*;

/* A Criteria Ages */
if dlifsed eq 1 and sedal eq 1 then
    oasedal = min(g47bsed,g48bsed); else oasedal=999;
if dlifsed eq 1 and seda2 eq 1 then
    oaseda2 = min(g42bsed,g43bsed,g44bsed); else oaseda2=999;
if dlifsed eq 1 and seda3 eq 1 then
    oaseda3 = g46bsed; else oaseda3=999;
if dlifsed eq 1 and seda4 eq 1 then
    oaseda4= min(g30bsed,g31bsed,g34bsed); else oaseda4=999;
if dlifsed eq 1 and seda5 eq 1 then
    oaseda5 = g52bsed; else oaseda5=999;
if dlifsed eq 1 and seda6 eq 1 then
    oaseda6 =min(g32bsed,g33bsed,g36bsed,g37bsed,g38bsed,g41bsed);
                else oaseda6=999;
if dlifsed eq 1 and seda7 eq 1 then
    oaseda7 = g49bsed; else oaseda7=999;
if dlifsed eq 1 and seda8 eq 1 then
    oaseda8 = g50bsed; else oaseda8=999;
/* there is no g51bsed so cannot make oaseda9 */

* B criteria ages;

if dlifsed eq 1 and sedbl eq 1 then
    oasedbl = min(g47bsed,g48bsed); else oasedbl=999;
if dlifsed eq 1 and sedb2 eq 1 then
    oasedb2 = min(g42bsed,g43bsed,g44bsed); else oasedb2=999;
if dlifsed eq 1 and sedb3 eq 1 then
    oasedb3 = g46bsed; else oasedb3=999;

```

```

if dlifsed eq 1 and sedb4 eq 1 then
    oasedb4= min(g30bsed,g31bsed,g34bsed); else oasedb4=999;
if dlifsed eq 1 and sedb5 eq 1 then
    oasedb5 = g52bsed; else oasedb5=999;
if dlifsed eq 1 and sedb6 eq 1 then
    oasedb6 =min(g32bsed,g33bsed,g36bsed,g37bsed,g38bsed,g41bsed);
        else oasedb6=999;
if dlifsed eq 1 and sedb7 eq 1 then
    oasedb7 = g49bsed; else oasedb7=999;
if dlifsed eq 1 and sedb8 eq 1 then
    oasedb8 = g50bsed; else oasedb8=999;

seda3rd=ordinal(3, oasedal, oaseda2, oaseda3, oaseda4, oaseda5,
    oaseda6, oaseda7, oaseda8);
seda2nd=ordinal(2, oasedal, oaseda2, oaseda3, oaseda4, oaseda5,
    oaseda6, oaseda7, oaseda8);
sedalst=ordinal(1, oasedal, oaseda2, oaseda3, oaseda4, oaseda5,
    oaseda6, oaseda7, oaseda8);
sedb2nd=ordinal(2, oasedb1, oasedb2, oasedb3, oasedb4, oasedb5,
    oasedb6, oasedb7, oasedb8);
sedblst=ordinal(1, oasedb1, oasedb2, oasedb3, oasedb4, oasedb5,
    oasedb6, oasedb7, oasedb8);

array miss2(*) seda3rd seda2nd sedalst sedb2nd sedblst;
    do i=1 to dim(miss2);
        if miss2{i}=999 then miss2{i}=.; end; drop i;

dloased=max(seda3rd,seda2nd,sedalst,sedb2nd,sedblst);

*-----*-----*-----*
|           TRANQUILIZERS |-----*-----*;
*-----*-----*-----*-----*-----*-----*-----*-----*-----*-----*
```

\* A Criteria Ages;

```

if dliftrq eq 1 and trqal eq 1 then
    oatrqal = min(g47btrq,g48btrq); else oatrqal=999;
if dliftrq eq 1 and trqa2 eq 1 then
    oatrqa2 = min(g42btrq,g43btrq,g44btrq); else oatrqa2=999;
if dliftrq eq 1 and trqa3 eq 1 then
    oatrqa3 = g46btrq; else oatrqa3=999;
if dliftrq eq 1 and trqa4 eq 1 then
    oatrqa4= min(g30btrq,g31btrq,g34btrq); else oatrqa4=999;
if dliftrq eq 1 and trqa5 eq 1 then
    oatrqa5 = g52btrq; else oatrqa5=999;
if dliftrq eq 1 and trqa6 eq 1 then
    oatrqa6 =min(g32btrq,g33btrq,g36btrq,g37btrq,g38btrq,g41btrq);
        else oatrqa6=999;
if dliftrq eq 1 and trqa7 eq 1 then
    oatrqa7 = g49btrq; else oatrqa7=999;
if dliftrq eq 1 and trqa8 eq 1 then
    oatrqa8 = g50btrq; else oatrqa8=999;
```

```

/* there is no g51btrq so cannot make oatrqa9 */

* B criteria ages;

if dliftrq eq 1 and trqb1 eq 1 then
    oatrqb1 = min(g47btrq,g48btrq); else oatrqb1=999;
if dliftrq eq 1 and trqb2 eq 1 then
    oatrqb2 = min(g42btrq,g43btrq,g44btrq); else oatrqb2=999;
if dliftrq eq 1 and trqb3 eq 1 then
    oatrqb3 = g46btrq; else oatrqb3=999;
if dliftrq eq 1 and trqb4 eq 1 then
    oatrqb4= min(g30btrq,g31btrq,g34btrq); else oatrqb4=999;
if dliftrq eq 1 and trqb5 eq 1 then
    oatrqb5 = g52btrq; else oatrqb5=999;
if dliftrq eq 1 and trqb6 eq 1 then
    oatrqb6 = min(g32btrq,g33btrq,g36btrq,g37btrq,g38btrq,g41btrq);
        else oatrqb6=999;
if dliftrq eq 1 and trqb7 eq 1 then
    oatrqb7 = g49btrq; else oatrqb7=999;
if dliftrq eq 1 and trqb8 eq 1 then
    oatrqb8 = g50btrq; else oatrqb8=999;

trqa3rd=ordinal(3, oatrqa1, oatrqa2, oatrqa3, oatrqa4, oatrqa5,
    oatrqa6, oatrqa7, oatrqa8);
trqa2nd=ordinal(2, oatrqa1, oatrqa2, oatrqa3, oatrqa4, oatrqa5,
    oatrqa6, oatrqa7, oatrqa8);
trqalst=ordinal(1, oatrqa1, oatrqa2, oatrqa3, oatrqa4, oatrqa5,
    oatrqa6, oatrqa7, oatrqa8);
trqb2nd=ordinal(2, oatrqb1, oatrqb2, oatrqb3, oatrqb4, oatrqb5,
    oatrqb6, oatrqb7, oatrqb8);
trqb1st=ordinal(1, oatrqb1, oatrqb2, oatrqb3, oatrqb4, oatrqb5,
    oatrqb6, oatrqb7, oatrqb8);

array miss3(*) trqa3rd trqa2nd trqalst trqb2nd trqb1st;
    do i=1 to dim(miss3);
        if miss3(i)=999 then miss3(i)=.; end; drop i;

dloatrq=max(trqa3rd,trqa2nd,trqalst,trqb2nd,trqb1st);

*-----*
|           STIMULANTS           |
*-----*;

* A Criteria Ages;

if dlifsti eq 1 and stial eq 1 then
    oastial = min(g47bsti,g48bsti); else oastial=999;
if dlifsti eq 1 and stia2 eq 1 then
    oastia2 = min(g42bsti,g43bsti,g44bsti); else oastia2=999;
if dlifsti eq 1 and stia3 eq 1 then
    oastia3 = g46bsti; else oastia3=999;
if dlifsti eq 1 and stia4 eq 1 then

```

```

        oastia4= min(g30bsti,g31bsti,g34bsti); else oastia4=999;
if dlifsti eq 1 and stia5 eq 1 then
    oastia5 = g52bsti; else oastia5=999;
if dlifsti eq 1 and stia6 eq 1 then
    oastia6 = min(g32bsti,g33bsti,g36bsti,g37bsti,g38bsti,g41bsti);
    else oastia6=999;
if dlifsti eq 1 and stia7 eq 1 then
    oastia7 = g49bsti; else oastia7=999;
if dlifsti eq 1 and stia8 eq 1 then
    oastia8 = g50bsti; else oastia8=999;
/* there is no g51bsti so cannot make oastia9 */

* B criteria ages;

if dlifsti eq 1 and stib1 eq 1 then
    oastib1 = min(g47bsti,g48bsti); else oastib1=999;
if dlifsti eq 1 and stib2 eq 1 then
    oastib2 = min(g42bsti,g43bsti,g44bsti); else oastib2=999;
if dlifsti eq 1 and stib3 eq 1 then
    oastib3 = g46bsti; else oastib3=999;
if dlifsti eq 1 and stib4 eq 1 then
    oastib4= min(g30bsti,g31bsti,g34bsti); else oastib4=999;
if dlifsti eq 1 and stib5 eq 1 then
    oastib5 = g52bsti; else oastib5=999;
if dlifsti eq 1 and stib6 eq 1 then
    oastib6 = min(g32bsti,g33bsti,g36bsti,g37bsti,g38bsti,g41bsti);
    else oastib6=999;
if dlifsti eq 1 and stib7 eq 1 then
    oastib7 = g49bsti; else oastib7=999;
if dlifsti eq 1 and stib8 eq 1 then
    oastib8 = g50bsti; else oastib8=999;

stia3rd=ordinal(3, oastial, oastia2, oastia3, oastia4, oastia5,
    oastia6, oastia7, oastia8);
stia2nd=ordinal(2, oastial, oastia2, oastia3, oastia4, oastia5,
    oastia6, oastia7, oastia8);
stialst=ordinal(1, oastial, oastia2, oastia3, oastia4, oastia5,
    oastia6, oastia7, oastia8);
stib2nd=ordinal(2, oastib1, oastib2, oastib3, oastib4, oastib5,
    oastib6, oastib7, oastib8);
stiblst=ordinal(1, oastib1, oastib2, oastib3, oastib4, oastib5,
    oastib6, oastib7, oastib8);

array miss4(*) stia3rd stia2nd stialst stib2nd stiblst;
do i=1 to dim(miss4);
if miss4(i)=999 then miss4(i)=.; end; drop i;

dloasti=max(stia3rd,stia2nd,stialst,stib2nd,stiblst);

```

```

*-----*-----*
|          ANALGESICS
*-----*-----*;

* A Criteria Ages;

    if dlifags eq 1 and agsal eq 1 then
        oaagsal = min(g47bags,g48bags); else oaagsal=999;
    if dlifags eq 1 and agsa2 eq 1 then
        oaagsa2 = min(g42bags,g43bags,g44bags); else oaagsa2=999;
    if dlifags eq 1 and agsa3 eq 1 then
        oaagsa3 = g46bags; else oaagsa3=999;
    if dlifags eq 1 and agsa4 eq 1 then
        oaagsa4= min(g30bags,g31bags,g34bags); else oaagsa4=999;
    if dlifags eq 1 and agsa5 eq 1 then
        oaagsa5 = g52bags; else oaagsa5=999;
    if dlifags eq 1 and agsa6 eq 1 then
        oaagsa6 = min(g32bags,g33bags,g36bags,g37bags,g38bags,g41bags);
        else oaagsa6=999;
    if dlifags eq 1 and agsa7 eq 1 then
        oaagsa7 = g49bags; else oaagsa7=999;
    if dlifags eq 1 and agsa8 eq 1 then
        oaagsa8 = g50bags; else oaagsa8=999;
    /* there is no g51bags so cannot make oaagsa9 */

* B criteria ages;

    if dlifags eq 1 and agsb1 eq 1 then
        oaagsb1 = min(g47bags,g48bags); else oaagsb1=999;
    if dlifags eq 1 and agsb2 eq 1 then
        oaagsb2 = min(g42bags,g43bags,g44bags); else oaagsb2=999;
    if dlifags eq 1 and agsb3 eq 1 then
        oaagsb3 = g46bags; else oaagsb3=999;
    if dlifags eq 1 and agsb4 eq 1 then
        oaagsb4= min(g30bags,g31bags,g34bags); else oaagsb4=999;
    if dlifags eq 1 and agsb5 eq 1 then
        oaagsb5 = g52bags; else oaagsb5=999;
    if dlifags eq 1 and agsb6 eq 1 then
        oaagsb6 = min(g32bags,g33bags,g36bags,g37bags,g38bags,g41bags);
        else oaagsb6=999;
    if dlifags eq 1 and agsb7 eq 1 then
        oaagsb7 = g49bags; else oaagsb7=999;
    if dlifags eq 1 and agsb8 eq 1 then
        oaagsb8 = g50bags; else oaagsb8=999;

agsa3rd=ordinal(3, oaagsal, oaagsa2, oaagsa3, oaagsa4, oaagsa5,
                 oaagsa6, oaagsa7, oaagsa8);
agsa2nd=ordinal(2, oaagsal, oaagsa2, oaagsa3, oaagsa4, oaagsa5,
                 oaagsa6, oaagsa7, oaagsa8);
agsalst=ordinal(1, oaagsal, oaagsa2, oaagsa3, oaagsa4, oaagsa5,
                 oaagsa6, oaagsa7, oaagsa8);

```

```

agsb2nd=ordinal(2, oaagsb1, oaagsb2, oaagsb3, oaagsb4, oaagsb5,
                 oaagsb6, oaagsb7, oaagsb8);
agsb1st=ordinal(1, oaagsb1, oaagsb2, oaagsb3, oaagsb4, oaagsb5,
                 oaagsb6, oaagsb7, oaagsb8);

array miss5(*) agsa3rd agsa2nd agsalst agsb2nd agsblst;
  do i=1 to dim(miss5);
    if miss5(i)=999 then miss5(i)=.; end; drop i;

  dloaags=max(agsa3rd,agsa2nd,agsalst,agsb2nd,agsblst);

*-----*-----*-----*
|          INHALANTS          |
*-----*-----*-----*;

* A Criteria Ages;

if dlifinh eq 1 and inhal eq 1 then
  oainhal = min(g47binh,g48binh); else oainhal=999;
if dlifinh eq 1 and inha2 eq 1 then
  oainha2 = min(g42binh,g43binh,g44binh); else oainha2=999;
if dlifinh eq 1 and inha3 eq 1 then
  oainha3 = g46binh; else oainha3=999;
if dlifinh eq 1 and inha4 eq 1 then
  oainha4= min(g30binh,g31binh,g34binh); else oainha4=999;
if dlifinh eq 1 and inha5 eq 1 then
  oainha5 = g52binh; else oainha5=999;
if dlifinh eq 1 and inha6 eq 1 then
  oainha6 = min(g32binh,g33binh,g36binh,g37binh,g38binh,g41binh);
            else oainha6=999;
if dlifinh eq 1 and inha7 eq 1 then
  oainha7 = g49binh; else oainha7=999;
if dlifinh eq 1 and inha8 eq 1 then
  oainha8 = g50binh; else oainha8=999;
/* there is no g51binh so cannot make oainha9 */

* B criteria ages;

if dlifinh eq 1 and inhbl eq 1 then
  oainhbl = min(g47binh,g48binh); else oainhbl=999;
if dlifinh eq 1 and inhb2 eq 1 then
  oainhb2 = min(g42binh,g43binh,g44binh); else oainhb2=999;
if dlifinh eq 1 and inhb3 eq 1 then
  oainhb3 = g46binh; else oainhb3=999;
if dlifinh eq 1 and inhb4 eq 1 then
  oainhb4= min(g30binh,g31binh,g34binh); else oainhb4=999;
if dlifinh eq 1 and inhb5 eq 1 then
  oainhb5 = g52binh; else oainhb5=999;
if dlifinh eq 1 and inhb6 eq 1 then
  oainhb6 = min(g32binh,g33binh,g36binh,g37binh,g38binh,g41binh);
            else oainhb6=999;
if dlifinh eq 1 and inhb7 eq 1 then

```

```

        oainhb7 = g49binh; else oainhb7=999;
if dlifinh eq 1 and inhb8 eq 1 then
        oainhb8 = g50binh; else oainhb8=999;

inha3rd=ordinal(3, oainhal, oainha2, oainha3, oainha4, oainha5,
                 oainha6, oainha7, oainha8);
inha2nd=ordinal(2, oainhal, oainha2, oainha3, oainha4, oainha5,
                 oainha6, oainha7, oainha8);
inhalst=ordinal(1, oainhal, oainha2, oainha3, oainha4, oainha5,
                 oainha6, oainha7, oainha8);
inhb2nd=ordinal(2, oainhb1, oainhb2, oainhb3, oainhb4, oainhb5,
                 oainhb6, oainhb7, oainhb8);
inhb1st=ordinal(1, oainhb1, oainhb2, oainhb3, oainhb4, oainhb5,
                 oainhb6, oainhb7, oainhb8);

array miss6(*) inha3rd inha2nd inhalst inhb2nd inhb1st;
do i=1 to dim(miss6);
  if miss6(i)=999 then miss6(i)=.; end; drop i;

dloainh=max(inha3rd,inha2nd,inhalst,inhb2nd,inhb1st);

```

```

*-----*-----*-----*-----*-----*-----*-----*-----*-----*
|          MARIJUANA          |
*-----*-----*-----*-----*-----*-----*-----*-----*-----*
```

\* A Criteria Ages;

```

if dlifmar eq 1 and maral eq 1 then
        oamaral = min(g47bmar,g48bmar); else oamaral=999;
if dlifmar eq 1 and mara2 eq 1 then
        oamara2 = min(g42bmar,g43bmar,g44bmar); else oamara2=999;
if dlifmar eq 1 and mara3 eq 1 then
        oamara3 = g46bmar; else oamara3=999;
if dlifmar eq 1 and mara4 eq 1 then
        oamara4= min(g30bmar,g31bmar,g34bmar); else oamara4=999;
if dlifmar eq 1 and mara5 eq 1 then
        oamara5 = g52bmar; else oamara5=999;
if dlifmar eq 1 and mara6 eq 1 then
        oamara6 = min(g32bmar,g33bmar,g36bmar,g37bmar,g38bmar,g41bmar);
                  else oamara6=999;
if dlifmar eq 1 and mara7 eq 1 then
        oamara7 = g49bmar; else oamara7=999;
if dlifmar eq 1 and mara8 eq 1 then
        oamara8 = g50bmar; else oamara8=999;
/* there is no g51bmar so cannot make oamara9 */

```

\* B criteria ages;

```

if dlifmar eq 1 and marb1 eq 1 then
        oamarb1 = min(g47bmar,g48bmar); else oamarb1=999;
if dlifmar eq 1 and marb2 eq 1 then

```

```

oamarb2 = min(g42bmar,g43bmar,g44bmar); else oamarb2=999;
if dlifmar eq 1 and marb3 eq 1 then
  oamarb3 = g46bmar; else oamarb3=999;
if dlifmar eq 1 and marb4 eq 1 then
  oamarb4= min(g30bmar,g31bmar,g34bmar); else oamarb4=999;
if dlifmar eq 1 and marb5 eq 1 then
  oamarb5 = g52bmar; else oamarb5=999;
if dlifmar eq 1 and marb6 eq 1 then
  oamarb6 = min(g32bmar,g33bmar,g36bmar,g37bmar,g38bmar,g41bmar);
  else oamarb6=999;
if dlifmar eq 1 and marb7 eq 1 then
  oamarb7 = g49bmar; else oamarb7=999;
if dlifmar eq 1 and marb8 eq 1 then
  oamarb8 = g50bmar; else oamarb8=999;

mara3rd=ordinal(3, oamaral, oamara2, oamara3, oamara4, oamara5,
                 oamara6, oamara7, oamara8);
mara2nd=ordinal(2, oamaral, oamara2, oamara3, oamara4, oamara5,
                 oamara6, oamara7, oamara8);
maralst=ordinal(1, oamaral, oamara2, oamara3, oamara4, oamara5,
                 oamara6, oamara7, oamara8);
marb2nd=ordinal(2, oamarbl, oamarb2, oamarb3, oamarb4, oamarb5,
                 oamarb6, oamarb7, oamarb8);
marblst=ordinal(1, oamarbl, oamarb2, oamarb3, oamarb4, oamarb5,
                 oamarb6, oamarb7, oamarb8);

array miss7(*) mara3rd mara2nd maralst marb2nd marblst;
  do i=1 to dim(miss7);
    if miss7(i)=999 then miss7(i)=.; end; drop i;

dloamar=max(mara3rd,mara2nd,maralst,marb2nd,marblst);

```

\*-----\*  
| COCAINE |  
\*-----\*;

\* A Criteria Ages;

```

if dlifcoc eq 1 and cocal eq 1 then
  oacocal = min(g47bcoc,g48bcoc); else oacocal=999;
if dlifcoc eq 1 and coca2 eq 1 then
  oacoca2 = min(g42bcoc,g43bcoc,g44bcoc); else oacoca2=999;
if dlifcoc eq 1 and coca3 eq 1 then
  oacoca3 = g46bcoc; else oacoca3=999;
if dlifcoc eq 1 and coca4 eq 1 then
  oacoca4= min(g30bcoc,g31bcoc,g34bcoc); else oacoca4=999;
if dlifcoc eq 1 and coca5 eq 1 then
  oacoca5 = g52bcoc; else oacoca5=999;
if dlifcoc eq 1 and coca6 eq 1 then
  oacoca6 = min(g32bcoc,g33bcoc,g36bcoc,g37bcoc,g38bcoc,g41bcoc);
  else oacoca6=999;
if dlifcoc eq 1 and coca7 eq 1 then

```

```

        oacoca7 = g49bcoc; else oacoca7=999;
if dlifcoc eq 1 and coca8 eq 1 then
    oacoca8 = g50bcoc; else oacoca8=999;
/* there is no g51bcoc so cannot make oacoca9 */

* B criteria ages;

        if dlifcoc eq 1 and cocbl1 eq 1 then
            oacocbl1 = min(g47bcoc,g48bcoc); else oacocbl1=999;
if dlifcoc eq 1 and cocb2 eq 1 then
    oacocb2 = min(g42bcoc,g43bcoc,g44bcoc); else oacocb2=999;
if dlifcoc eq 1 and cocb3 eq 1 then
    oacocb3 = g46bcoc; else oacocb3=999;
if dlifcoc eq 1 and cocb4 eq 1 then
    oacocb4= min(g30bcoc,g31bcoc,g34bcoc); else oacocb4=999;
if dlifcoc eq 1 and cocb5 eq 1 then
    oacocb5 = g52bcoc; else oacocb5=999;
if dlifcoc eq 1 and cocb6 eq 1 then
    oacocb6 = min(g32bcoc,g33bcoc,g36bcoc,g37bcoc,g38bcoc,g41bcoc);
        else oacocb6=999;
if dlifcoc eq 1 and cocb7 eq 1 then
    oacocb7 = g49bcoc; else oacocb7=999;
if dlifcoc eq 1 and cocb8 eq 1 then
    oacocb8 = g50bcoc; else oacocb8=999;

coca3rd=ordinal(3, oacocal, oacoca2, oacoca3, oacoca4, oacoca5,
    oacoca6, oacoca7, oacoca8);
coca2nd=ordinal(2, oacocal, oacoca2, oacoca3, oacoca4, oacoca5,
    oacoca6, oacoca7, oacoca8);
cocalst=ordinal(1, oacocal, oacoca2, oacoca3, oacoca4, oacoca5,
    oacoca6, oacoca7, oacoca8);
cocb2nd=ordinal(2, oacocbl1, oacocb2, oacocb3, oacocb4, oacocb5,
    oacocb6, oacocb7, oacocb8);
cocblst=ordinal(1, oacocbl1, oacocb2, oacocb3, oacocb4, oacocb5,
    oacocb6, oacocb7, oacocb8);

array miss8(*) coca3rd coca2nd cocalst cocb2nd cocblst;
    do i=1 to dim(miss8);
        if miss8{i}=999 then miss8{i}=.; end; drop i;

dloacoc=max(coca3rd,coca2nd,cocalst,cocb2nd,cocblst);

*-----*
|                                HALLUCINOGENS                                |
*-----*;

/* A Criteria Ages */
if dlifhal eq 1 and halal1 eq 1 then
    oahalal1 = min(g47bhal,g48bhal); else oahalal1=999;
if dlifhal eq 1 and hala2 eq 1 then
    oahala2 = min(g42bhal,g43bhal,g44bhal); else oahala2=999;
if dlifhal eq 1 and hala3 eq 1 then

```

```

        oahala3 = g46bhal; else oahala3=999;
if dlifhal eq 1 and hala4 eq 1 then
        oahala4= min(g30bhal,g31bhal,g34bhal); else oahala4=999;
if dlifhal eq 1 and hala5 eq 1 then
        oahala5 = g52bhal; else oahala5=999;
if dlifhal eq 1 and hala6 eq 1 then
        oahala6 = min(g32bhal,g33bhal,g36bhal,g37bhal,g38bhal,g41bhal);
                else oahala6=999;
if dlifhal eq 1 and hala7 eq 1 then
        oahala7 = g49bhal; else oahala7=999;
if dlifhal eq 1 and hala8 eq 1 then
        oahala8 = g50bhal; else oahala8=999;
/* there is no g51bhal so cannot make oahala9 */

* B criteria ages;

if dlifhal eq 1 and halb1 eq 1 then
        oahalb1 = min(g47bhal,g48bhal); else oahalb1=999;
if dlifhal eq 1 and halb2 eq 1 then
        oahalb2 = min(g42bhal,g43bhal,g44bhal); else oahalb2=999;
if dlifhal eq 1 and halb3 eq 1 then
        oahalb3 = g46bhal; else oahalb3=999;
if dlifhal eq 1 and halb4 eq 1 then
        oahalb4= min(g30bhal,g31bhal,g34bhal); else oahalb4=999;
if dlifhal eq 1 and halb5 eq 1 then
        oahalb5 = g52bhal; else oahalb5=999;
if dlifhal eq 1 and halb6 eq 1 then
        oahalb6 = min(g32bhal,g33bhal,g36bhal,g37bhal,g38bhal,g41bhal);
                else oahalb6=999;
if dlifhal eq 1 and halb7 eq 1 then
        oahalb7 = g49bhal; else oahalb7=999;
if dlifhal eq 1 and halb8 eq 1 then
        oahalb8 = g50bhal; else oahalb8=999;

hala3rd=ordinal(3, oahalal, oahala2, oahala3, oahala4, oahala5,
                 oahala6, oahala7, oahala8);
hala2nd=ordinal(2, oahalal, oahala2, oahala3, oahala4, oahala5,
                 oahala6, oahala7, oahala8);
halalst=ordinal(1, oahalal, oahala2, oahala3, oahala4, oahala5,
                 oahala6, oahala7, oahala8);
halb2nd=ordinal(2, oahalb1, oahalb2, oahalb3, oahalb4, oahalb5,
                 oahalb6, oahalb7, oahalb8);
halb1st=ordinal(1, oahalb1, oahalb2, oahalb3, oahalb4, oahalb5,
                 oahalb6, oahalb7, oahalb8);

array miss9(*) hala3rd hala2nd halalst halb2nd halb1st;
        do i=1 to dim(miss9);
        if miss9(i)=999 then miss9(i)=.; end; drop i;

dloahal=max(hala3rd,hala2nd,halalst,halb2nd,halb1st);

```

\*-----\*  
|           HEROIN  
\*-----\*;

\* A Criteria Ages;

```
if dlifher eq 1 and heral eq 1 then
    oaheral = min(g47bher,g48bher); else oaheral=999;
if dlifher eq 1 and hera2 eq 1 then
    oahera2 = min(g42bher,g43bher,g44bher); else oahera2=999;
if dlifher eq 1 and hera3 eq 1 then
    oahera3 = g46bher; else oahera3=999;
if dlifher eq 1 and hera4 eq 1 then
    oahera4= min(g30bher,g31bher,g34bher); else oahera4=999;
if dlifher eq 1 and hera5 eq 1 then
    oahera5 = g52bher; else oahera5=999;
if dlifher eq 1 and hera6 eq 1 then
    oahera6 = min(g32bher,g33bher,g36bher,g37bher,g38bher,g41bher);
    else oahera6=999;
if dlifher eq 1 and hera7 eq 1 then
    oahera7 = g49bher; else oahera7=999;
if dlifher eq 1 and hera8 eq 1 then
    oahera8 = g50bher; else oahera8=999;
/* there is no g51bher so cannot make oahera9 */
```

\* B criteria ages;

```
if dlifher eq 1 and herb1 eq 1 then
    oaherb1 = min(g47bher,g48bher); else oaherb1=999;
if dlifher eq 1 and herb2 eq 1 then
    oaherb2 = min(g42bher,g43bher,g44bher); else oaherb2=999;
if dlifher eq 1 and herb3 eq 1 then
    oaherb3 = g46bher; else oaherb3=999;
if dlifher eq 1 and herb4 eq 1 then
    oaherb4= min(g30bher,g31bher,g34bher); else oaherb4=999;
if dlifher eq 1 and herb5 eq 1 then
    oaherb5 = g52bher; else oaherb5=999;
if dlifher eq 1 and herb6 eq 1 then
    oaherb6 = min(g32bher,g33bher,g36bher,g37bher,g38bher,g41bher);
    else oaherb6=999;
if dlifher eq 1 and herb7 eq 1 then
    oaherb7 = g49bher; else oaherb7=999;
if dlifher eq 1 and herb8 eq 1 then
    oaherb8 = g50bher; else oaherb8=999;

hera3rd=ordinal(3, oaheral, oahera2, oahera3, oahera4, oahera5,
    oahera6, oahera7, oahera8);
hera2nd=ordinal(2, oaheral, oahera2, oahera3, oahera4, oahera5,
    oahera6, oahera7, oahera8);
heralst=ordinal(1, oaheral, oahera2, oahera3, oahera4, oahera5,
    oahera6, oahera7, oahera8);
```

```
herb2nd=ordinal(2, oaherb1, oaherb2, oaherb3, oaherb4, oaherb5,
                 oaherb6, oaherb7, oaherb8);
herblst=ordinal(1, oaherb1, oaherb2, oaherb3, oaherb4, oaherb5,
                 oaherb6, oaherb7, oaherb8);

array miss10(*) hera3rd hera2nd heralst herb2nd herblst;
  do i=1 to dim(miss10);
    if miss10(i)=999 then miss10(i)=.; end; drop i;

dloaher=max(hera3rd,hera2nd,heralst,herb2nd,herblst);
```

```

*****;
/* 3. DRUG3.SAS
   DRUG DEPENDENCE ONSET AGE, RECENCY, RECENCY AGE, etc

   (## denotes: "Full Dependence Criteria Not Required")
   ## D1Pxxx: Dependence ever had at least 1 problem
   ## D1POAxxx: Dependence first Problem Onset Age
   ## DPRECxxx: Dependence problem, RECENCY
   ## DPRAGxxx: Dependence problem, RECENCY AGE

   DF1Yxxx: DEPENDENCE, FULL criteria in PAST 12 MONTHS (Y/N)
   DF1Mxxx: DEPENDENCE, FULL criteria in PAST MONTH
*/
;

*-----*-----*-----*
| EVER HAD AT LEAST 1 DEPENDENCE PROBLEM?
| ## full criteria not required
| 1 = yes 0 = no
| var names: D1Pxxx      (DTPxxx = Dep TOTAL # PROB)
*-----*-----*-----*
;

array pralc(*)
  g30aalc g31aalc g32aalc g33aalc g34aalc g36aalc g37aalc g38aalc
  g41aalc g42aalc g43aalc g44aalc g46aalc g47aalc g48aalc
  g49aalc g50aalc g51aalc g52aalc;
dtpalc=0;
do i=1 to dim(pralc);
  if pralc(i)=1 then dtpalc=dtpalc+1;
  if dtpalc >= 1 then dlalc=1; else dlalc=0;
end; drop i;

array prsed(*)
  g30ased g31ased g32ased g33ased g34ased g36ased g37ased g38ased
  g41ased g42ased g43ased g44ased g46ased g47ased g48ased
  g49ased g50ased g51ased g52ased;
dtpsed=0;
do i=1 to dim(prsed);
  if prsed(i)=1 then dtpsed=dtpsed+1;
  if dtpsed >= 1 then dlpsed=1; else dlpsed=0;
end; drop i;

array ptrrq(*)
  g30atrq g31atrq g32atrq g33atrq g34atrq g36atrq g37atrq g38atrq
  g41atrq g42atrq g43atrq g44atrq g46atrq g47atrq g48atrq
  g49atrq g50atrq g51atrq g52atrq;
dptrrq=0;
do i=1 to dim(ptrrq);
  if ptrrq(i)=1 then dptrrq=dptrrq+1;
  if dptrrq >= 1 then dlptrrq=1; else dlptrrq=0;
end; drop i;

```

```

array prsti(*)
g30asti g31asti g32asti g33asti g34asti g36asti g37asti g38asti
    g41asti g42asti g43asti g44asti g46asti g47asti g48asti
    g49asti g50asti g51asti g52asti;
dtpsti=0;
do i=1 to dim(prsti);
    if prsti(i)=1 then dtpsti=dtpsti+1;
    if dtpsti >= 1 then dlpsti=1; else dlpsti=0;
end; drop i;

array prags(*)
g30aags g31aags g32aags g33aags g34aags g36aags g37aags g38aags
    g41aags g42aags g43aags g44aags g46aags g47aags g48aags
    g49aags g50aags g51aags g52aags;
dtpags=0;
do i=1 to dim(prags);
    if prags(i)=1 then dtpags=dtpags+1;
    if dtpags >= 1 then dlpags=1; else dlpags=0;
end; drop i;

array prinl(*)
g30ainh g31ainh g32ainh g33ainh g34ainh g36ainh g37ainh g38ainh
    g41ainh g42ainh g43ainh g44ainh g46ainh g47ainh g48ainh
    g49ainh g50ainh g51ainh g52ainh;
dtpinh=0;
do i=1 to dim(prinh);
    if prinl(i)=1 then dtpinh=dtpinh+1;
    if dtpinh >= 1 then dlpinh=1; else dlpinh=0;
end; drop i;

array prmar(*)
g30amar g31amar g32amar g33amar g34amar g36amar g37amar g38amar
    g41amar g42amar g43amar g44amar g46amar g47amar g48amar
    g49amar g50amar g51amar g52amar;
dtpmar=0;
do i=1 to dim(prmar);
    if prmar(i)=1 then dtpmar=dtpmar+1;
    if dtpmar >= 1 then dlpmar=1; else dlpmar=0;
end; drop i;

array prcoc(*)
g30acoc g31acoc g32acoc g33acoc g34acoc g36acoc g37acoc g38acoc
    g41acoc g42acoc g43acoc g44acoc g46acoc g47acoc g48acoc
    g49acoc g50acoc g51acoc g52acoc;
dtpcoc=0;
do i=1 to dim(prcoc);
    if prcoc(i)=1 then dtpcoc=dtpcoc+1;
    if dtpcoc >= 1 then dlpcoc=1; else dlpcoc=0;
end; drop i;

array prhal(*)
g30ahal g31ahal g32ahal g33ahal g34ahal g36ahal g37ahal g38ahal

```

```

        g41ahal g42ahal g43ahal g44ahal g46ahal g47ahal g48ahal
        g49ahal g50ahal g51ahal g52ahal;
dtphal=0;
do i=1 to dim(prhal);
  if prhal(i)=1 then dtphal=dtphal+1;
  if dtphal >= 1 then dlphal=1; else dlphal=0;
end; drop i;

array prher(*)
g30aher g31aher g32aher g33aher g34aher g36aher g37aher g38aher
g41aher g42aher g43aher g44aher g46aher g47aher g48aher
g49aher g50aher g51aher g52aher;
dtpher=0;
do i=1 to dim(prher);
  if prher(i)=1 then dtpher=dtpher+1;
  if dtpher >= 1 then dlpher=1; else dlpher=0;
end; drop i;

*-----*
| DEPENDENCE PROBLEM, ONSET AGE
| ## full criteria not required ***
| missing and not applicable age codes are set to 999
| minimum function will select lowest age 1-55 or 999
| var names: D1POAxxx      note no g51b
*-----*;

```

```

D1POAALC=min(g30balc,g31balc,g32balc,g33balc,g34balc,g36balc,g37balc,
              g38balc,g41balc,g42balc,g43balc,g44balc,g46balc,g47balc,
              g48balc,g49balc,g50balc,g52balc);
if dlpoaalc eq 999 then dlpoaalc=.;

D1POASED=min(g30bsed,g31bsed,g32bsed,g33bsed,g34bsed,g36bsed,g37bsed,
              g38bsed,g41bsed,g42bsed,g43bsed,g44bsed,g46bsed,g47bsed,
              g48bsed,g49bsed,g50bsed,g52bsed);
if dlpoased eq 999 then dlpoased=.;

D1POATRQ=min(g30btrq,g31btrq,g32btrq,g33btrq,g34btrq,g36btrq,g37btrq,
              g38btrq,g41btrq,g42btrq,g43btrq,g44btrq,g46btrq,g47btrq,
              g48btrq,g49btrq,g50btrq,g52btrq);
if dlpoatrq eq 999 then dlpoatrq=.;

D1POASTI=min(g30bsti,g31bsti,g32bsti,g33bsti,g34bsti,g36bsti,g37bsti,
              g38bsti,g41bsti,g42bsti,g43bsti,g44bsti,g46bsti,g47bsti,
              g48bsti,g49bsti,g50bsti,g52bsti);
if dlpoasti eq 999 then dlpoasti=.;

D1POAAGS=min(g30bags,g31bags,g32bags,g33bags,g34bags,g36bags,g37bags,
              g38bags,g41bags,g42bags,g43bags,g44bags,g46bags,g47bags,
              g48bags,g49bags,g50bags,g52bags);
if dlpoaags eq 999 then dlpoaags=.;

```

```

D1POAINH=min(g30binh,g31binh,g32binh,g33binh,g34binh,g36binh,g37binh,
              g38binh,g41binh,g42binh,g43binh,g44binh,g46binh,g47binh,
              g48binh,g49binh,g50binh,g52binh);
if dlpoainh eq 999 then dlpoainh=.;

D1POAMAR=min(g30bmar,g31bmar,g32bmar,g33bmar,g34bmar,g36bmar,g37bmar,
               g38bmar,g41bmar,g42bmar,g43bmar,g44bmar,g46bmar,g47bmar,
               g48bmar,g49bmar,g50bmar,g52bmar);
if dlpoamar eq 999 then dlpoamar=.;

D1POACOC=min(g30bcoc,g31bcoc,g32bcoc,g33bcoc,g34bcoc,g36bcoc,g37bcoc,
               g38bcoc,g41bcoc,g42bcoc,g43bcoc,g44bcoc,g46bcoc,g47bcoc,
               g48bcoc,g49bcoc,g50bcoc,g52bcoc);
if dlpoacoc eq 999 then dlpoacoc=.;

D1POAHAL=min(g30bhal,g31bhal,g32bhal,g33bhal,g34bhal,g36bhal,g37bhal,
               g38bhal,g41bhal,g42bhal,g43bhal,g44bhal,g46bhal,g47bhal,
               g48bhal,g49bhal,g50bhal,g52bhal);
if dlpoahal eq 999 then dlpoahal=.;

D1POAHER=min(g30bher,g31bher,g32bher,g33bher,g34bher,g36bher,g37bher,
               g38bher,g41bher,g42bher,g43bher,g44bher,g46bher,g47bher,
               g48bher,g49bher,g50bher,g52bher);
if dlpoaher eq 999 then dlpoaher=.;;

*-----*
| DEPENDENCE PROBLEM, RECENCY (minimum valid code)
| ## full criteria not required
| 1 =past month 2=past 6 months 3=past yr 4=more than a yr
|     var names: DPRECxxx          (note no g36c)
*-----*;
array missc(*)  

      g30calc g31calc g32calc g33calc g34calc g37calc g38calc  

      g41calc g42calc g43calc g44calc g46calc g47calc g48calc  

      g49calc g50calc g52calc  

      g30csed g31csed g32csed g33csed g34csed g37csed g38csed  

      g41csed g42csed g43csed g44csed g46csed g47csed g48csed  

      g49csed g50csed g52csed  

      g30ctrq g31ctrq g32ctrq g33ctrq g34ctrq g37ctrq g38ctrq  

      g41ctrq g42ctrq g43ctrq g44ctrq g46ctrq g47ctrq g48ctrq  

      g49ctrq g50ctrq g52ctrq  

      g30csti g31csti g32csti g33csti g34csti g37csti g38csti  

      g41csti g42csti g43csti g44csti g46csti g47csti g48csti  

      g49csti g50csti g52csti  

      g30cags g31cags g32cags g33cags g34cags g37cags g38cags  

      g41cags g42cags g43cags g44cags g46cags g47cags g48cags  

      g49cags g50cags g52cags  

      g30cinh g31cinh g32cinh g33cinh g34cinh g37cinh g38cinh  

      g41cinh g42cinh g43cinh g44cinh g46cinh g47cinh g48cinh  

      g49cinh g50cinh g52cinh

```

```

g30cmar g31cmar g32cmar g33cmar g34cmar g37cmar g38cmar
g41cmar g42cmar g43cmar g44cmar g46cmar g47cmar g48cmar
g49cmar g50cmar g52cmar
g30ccoc g31ccoc g32ccoc g33ccoc g34ccoc g37ccoc g38ccoc
g41ccoc g42ccoc g43ccoc g44ccoc g46ccoc g47ccoc g48ccoc
g49ccoc g50ccoc g52ccoc
g30chal g31chal g32chal g33chal g34chal g37chal g38chal
g41chal g42chal g43chal g44chal g46chal g47chal g48chal
g49chal g50chal g52chal
g30cher g31cher g32cher g33cher g34cher g37cher g38cher
g41cher g42cher g43cher g44cher g46cher g47cher g48cher
g49cher g50cher g52cher;
do i=1 to dim(missc);
  if missc(i)>= 8 or missc(i)=. or missc(i)=0 then missc(i)=9;
end;
drop i;

DPRECALC=min(g30calc,g31calc,g32calc,g33calc,g34calc,g37calc,
g38calc,g41calc,g42calc,g43calc,g44calc,g46calc,g47calc,
g48calc,g49calc,g50calc,g52calc);

DPRECSED=min(g30csed,g31csed,g32csed,g33csed,g34csed,g37csed,
g38csed,g41csed,g42csed,g43csed,g44csed,g46csed,g47csed,
g48csed,g49csed,g50csed,g52csed);

DPRECTRQ=min(g30ctrq,g31ctrq,g32ctrq,g33ctrq,g34ctrq,g37ctrq,
g38ctrq,g41ctrq,g42ctrq,g43ctrq,g44ctrq,g46ctrq,g47ctrq,
g48ctrq,g49ctrq,g50ctrq,g52ctrq);

DPRECSTI=min(g30csti,g31csti,g32csti,g33csti,g34csti,g37csti,
g38csti,g41csti,g42csti,g43csti,g44csti,g46csti,g47csti,
g48csti,g49csti,g50csti,g52csti);

DPRECAGS=min(g30cags,g31cags,g32cags,g33cags,g34cags,g37cags,
g38cags,g41cags,g42cags,g43cags,g44cags,g46cags,g47cags,
g48cags,g49cags,g50cags,g52cags);

DPRECINH=min(g30cinh,g31cinh,g32cinh,g33cinh,g34cinh,g37cinh,
g38cinh,g41cinh,g42cinh,g43cinh,g44cinh,g46cinh,g47cinh,
g48cinh,g49cinh,g50cinh,g52cinh);

DPRECMAR=min(g30cmar,g31cmar,g32cmar,g33cmar,g34cmar,g37cmar,
g38cmar,g41cmar,g42cmar,g43cmar,g44cmar,g46cmar,g47cmar,
g48cmar,g49cmar,g50cmar,g52cmar);

```

```
DPRECCOC=min(g30ccoc,g31ccoc,g32ccoc,g33ccoc,g34ccoc,g37ccoc,  
g38ccoc,g41ccoc,g42ccoc,g43ccoc,g44ccoc,g46ccoc,g47ccoc,  
g48ccoc,g49ccoc,g50ccoc,g52ccoc);  
  
DPRCHAL=min(g30chal,g31chal,g32chal,g33chal,g34chal,g37chal,  
g38chal,g41chal,g42chal,g43chal,g44chal,g46chal,g47chal,  
g48chal,g49chal,g50chal,g52chal);  
  
DPRCHER=min(g30cher,g31cher,g32cher,g33cher,g34cher,g37cher,  
g38cher,g41cher,g42cher,g43cher,g44cher,g46cher,g47cher,  
g48cher,g49cher,g50cher,g52cher);
```

```

*-----*
  DEPENDENCE PROBLEM, RECENCY AGE      (full criteria not required)
  maximum of valid age codes 1-55 among the 'd' items
  missing ages set to . which is smaller than valid ages
  variable names: DPRAGxxx
*-----*;

```

```

array missd(*)  

  g30dalc g31dalc g32dalc g33dalc g34dalc g37dalc g38dalc  

  g41dalc g42dalc g43dalc g44dalc g46dalc g47dalc g48dalc  

  g49dalc g50dalc g52dalc  

  g30dsed g31dsed g32dsed g33dsed g34dsed g37dsed g38dsed  

  g41dsed g42dsed g43dsed g44dsed g46dsed g47dsed g48dsed  

  g49dsed g50dsed g52dsed  

  g30dtrq g31dtrq g32dtrq g33dtrq g34dtrq g37dtrq g38dtrq  

  g41dtrq g42dtrq g43dtrq g44dtrq g46dtrq g47dtrq g48dtrq  

  g49dtrq g50dtrq g52dtrq  

  g30dsti g31dsti g32dsti g33dsti g34dsti g37dsti g38dsti  

  g41dsti g42dsti g43dsti g44dsti g46dsti g47dsti g48dsti  

  g49dsti g50dsti g52dsti  

  g30dags g31dags g32dags g33dags g34dags g37dags g38dags  

  g41dags g42dags g43dags g44dags g46dags g47dags g48dags  

  g49dags g50dags g52dags  

  g30dinh g31dinh g32dinh g33dinh g34dinh g37dinh g38dinh  

  g41dinh g42dinh g43dinh g44dinh g46dinh g47dinh g48dinh  

  g49dinh g50dinh g52dinh  

  g30dmars g31dmars g32dmars g33dmars g34dmars g37dmars g38dmars  

  g41dmars g42dmars g43dmars g44dmars g46dmars g47dmars g48dmars  

  g49dmars g50dmars g52dmars  

  g30dcoc g31dcoc g32dcoc g33dcoc g34dcoc g37dcoc g38dcoc  

  g41dcoc g42dcoc g43dcoc g44dcoc g46dcoc g47dcoc g48dcoc  

  g49dcoc g50dcoc g52dcoc  

  g30dhal g31dhal g32dhal g33dhal g34dhal g37dhal g38dhal  

  g41dhal g42dhal g43dhal g44dhal g46dhal g47dhal g48dhal  

  g49dhal g50dhal g52dhal  

  g30dher g31dher g32dher g33dher g34dher g37dher g38dher  

  g41dher g42dher g43dher g44dher g46dher g47dher g48dher  

  g49dher g50dher g52dher;  

  do i=1 to dim(missd);  

    if missd(i)= 999 then missd(i)=.;  

  end;  

  drop i;  

  if dprecalc eq 4 then DPRAGALC=  

  

max(g30dalc,g31dalc,g32dalc,g33dalc,g34dalc,g37dalc,g38dalc,  

g41dalc,g42dalc,g43dalc,g44dalc,g46dalc,g47dalc,g48dalc,  

g49dalc,g50dalc,g52dalc);  

  if 1 <= dprecalc <=3 then DPRAGALC=crtage;  

  if dpragalc=999 then dpragalc=.;  

  if dprecسد eq 4 then DPRAGSED=
```

```

max(g30dsed,g31dsed,g32dsed,g33dsed,g34dsed,g37dsed,g38dsed,
g41dsed,g42dsed,g43dsed,g44dsed,g46dsed,g47dsed,g48dsed,
g49dsed,g50dsed,g52dsed);
if 1 <= dprecسد <=3 then DPRAGSED=crtage;
if dpragsed=999 then dpragsed=.;
if dprectrq eq 4 then DPRAGTRQ=

max(g30dtrq,g31dtrq,g32dtrq,g33dtrq,g34dtrq,g37dtrq,g38dtrq,
g41dtrq,g42dtrq,g43dtrq,g44dtrq,g46dtrq,g47dtrq,g48dtrq,
g49dtrq,g50dtrq,g52dtrq);
if 1 <= dprectrq <=3 then DPRAGTRQ=crtage;
if dpragtrq=999 then dpragtrq=.;
if dprecsti eq 4 then DPRAGSTI=

max(g30dsti,g31dsti,g32dsti,g33dsti,g34dsti,g37dsti,g38dsti,
g41dsti,g42dsti,g43dsti,g44dsti,g46dsti,g47dsti,g48dsti,
g49dsti,g50dsti,g52dsti);
if 1 <= dprecsti <=3 then DPRAGSTI=crtage;
if dpragsti=999 then dpragsti=.;
if dprecags eq 4 then DPRAGAGS=

max(g30dags,g31dags,g32dags,g33dags,g34dags,g37dags,g38dags,
g41dags,g42dags,g43dags,g44dags,g46dags,g47dags,g48dags,
g49dags,g50dags,g52dags);
if 1 <= dprecags <=3 then DPRAGAGS=crtage;
if dpragags=999 then dpragags=.;
if dprecinh eq 4 then DPRAGINH=

max(g30dinh,g31dinh,g32dinh,g33dinh,g34dinh,g37dinh,g38dinh,
g41dinh,g42dinh,g43dinh,g44dinh,g46dinh,g47dinh,g48dinh,
g49dinh,g50dinh,g52dinh);
if 1 <= dprecinh <=3 then DPRAGINH=crtage;
if dpraginh=999 then dpraginh=.;
if dprecmar eq 4 then DPRAGMAR=

max(g30dmar,g31dmar,g32dmar,g33dmar,g34dmar,g37dmar,g38dmar,
g41dmar,g42dmar,g43dmar,g44dmar,g46dmar,g47dmar,g48dmar,
g49dmar,g50dmar,g52dmar);
if 1 <= dprecmar <=3 then DPRAGMAR=crtage;
if dpragmar=999 then dpragmar=.;
if dpreccoc eq 4 then DPRAGCOC=

max(g30dcoc,g31dcoc,g32dcoc,g33dcoc,g34dcoc,g37dcoc,g38dcoc,
g41dcoc,g42dcoc,g43dcoc,g44dcoc,g46dcoc,g47dcoc,g48dcoc,
g49dcoc,g50dcoc,g52dcoc);

```

```

if 1 <= dpreccoc <=3 then DPRAGCOC=crtage;
if dpragcoc=999 then dpragcoc=.;
if dprechal eq 4 then DPRAGHAL=
```

max(g30dhal,g31dhal,g32dhal,g33dhal,g34dhal,g37dhal,g38dhal,

g41dhal,g42dhal,g43dhal,g44dhal,g46dhal,g47dhal,g48dhal,
 g49dhal,g50dhal,g52dhal);
if 1 <= dprechal <=3 then DPRAGHAL=crtage;
if dpraghal=999 then dprag=.;
if dprecher eq 4 then DPRAGHER=

max(g30dher,g31dher,g32dher,g33dher,g34dher,g37dher,g38dher,

g41dher,g42dher,g43dher,g44dher,g46dher,g47dher,g48dher,
 g49dher,g50dher,g52dher);
if 1 <= dprecher <=3 then DPRAGHER=crtage;
if dpragher=999 then dpragher=.;

```

*-----*
      DEPENDENCE FULL CRITERIA DURING PAST 12 MONTHS
      had 3 A and 2 B criteria all within the past year.
      note difference from lifetime criteria: only 8 A criteria
          available (no g51cxx0) also no g36c, no g36d
      1=yes 0=no
      VAR NAMES: DF1Yxx
*-----*;

```

\* ALCOHOL full dependence during past 12 months;

- if alcal=1 and
  - (1 <= g47calc <=3) or (1 <= g48calc <= 3) then pyalcal=1;
- if alca2=1 and
  - (1 <= g42calc <=3) or (1 <= g43calc <=3)
  - or (1 <= g44calc <=3) then pyalca2=1;
- if alca3=1 and
  - (1 <= g46calc <=3) then pyalca3=1;
- if alca4=1 and
  - ((1 <= g30calc <=3) or (1 <= g31calc <= 3))
  - or (1 <= g34calc <= 3) then pyalca4=1;
- if alca5=1 and
  - (1 <= g52calc <=3) then pyalca5=1;
- if alca6=1 and
  - ((1 <= g32calc <= 3) and (crtage > g32balc or g32ealc=1))
  - or ((1 <= g33calc <= 3) and (crtage > g33balc))
  - or ((1 <= g37calc <= 3) and (crtage > g37balc))
  - or ((1 <= g38calc <= 3) and (crtage > g38balc)) then pyalca6=1;
- if g41aalc eq 1 and (1 <= g41calc <=3) then pyalca6=1;
- if drkl2pyr eq 1 and
  - ((g32aalc eq 1) and (crtage > g32balc or g32ealc=1))
  - or ((g33aalc eq 1) and (crtage > g33balc))
  - or ((g37aalc eq 1) and (crtage > g37balc))
  - or ((g38aalc eq 1) and (crtage > g38balc)) then pyalca6=1;
- if alca7=1 and (1 <= g49calc <= 3) then pyalca7=1;
- if alca8=1 and (1 <= g50calc <= 3) then pyalca8=1;
- if pyalcal=1 then pyalcb1=1;
- if pyalca2=1 and
  - ((g42aalc=1) & (1 <= g42calc <= 3) & (crtage > g42balc))
  - or ((g43aalc=1) & (1 <= g43calc <= 3) & (crtage > g43balc))
  - or ((g44aalc=1) & (1 <= g44calc <= 3) & (crtage > g44balc)) then pyalcb2=1;
- if pyalca3=1 then pyalcb3=1;
- if pyalca4=1 then pyalcb4=1;
- if pyalca5=1 and
  - ((g52aalc=1) & (1 <= g52calc <= 3) & (crtage > g52balc)) then pyalcb5=1;
- if pyalca6=1 then pyalcb6=1;
- if pyalca7=1 and
  - ((g49aalc=1) & (1 <= g49calc <= 3) & (crtage > g49balc)) then pyalcb7=1;
- if pyalca8=1 and
  - ((g50aalc=1) & (1 <= g50calc <= 3) & (crtage > g50balc))

```

        then pyalcb8=1;
pyalcat=sum(of pyalcal-pyalca8);
pyalcbt=sum(of pyalcb1-pyalcb8);

if pyalcat >= 3 and pyalcbt >= 2 then dflyalc=1; else dflyalc=0;

*-----*
|      SEDATIVES full dependence during past 12 months      |
*-----*;

if sedal=1 and
    (1 <= g47csed <=3) or (1 <= g48csed <= 3)    then pysedal=1;
if seda2=1 and
    (1 <= g42csed <=3) or (1 <= g43csed <=3)
    or (1 <= g44csed <=3)                           then pyseda2=1;
if seda3=1 and
    (1 <= g46csed <=3)                           then pyseda3=1;
if seda4=1 and
    ((1 <= g30csed <=3) or (1 <= g31csed <= 3))
    or (1 <= g34csed <= 3)                         then pyseda4=1;
if seda5=1 and
    (1 <= g52csed <=3)                           then pyseda5=1;
if seda6=1 and
    ((1 <= g32csed <= 3) and (crtage > g32bsed or g32esed=1))
    or ((1 <= g33csed <= 3) and (crtage > g33bsed))
    or ((1 <= g37csed <= 3) and (crtage > g37bsed))
    or ((1 <= g38csed <= 3) and (crtage > g38bsed))
    or ((1 <= rcusesed <= 3) & (crtage > g32bsed or g32esed=1))
    or ((1 <= rcusesed <= 3) & (crtage > g33bsed))
    or ((1 <= rcusesed <= 3) & (crtage > g37bsed))
    or ((1 <= rcusesed <= 3) & (crtage > g38bsed)) then pyseda6=1;
if g41ased eq 1 and (1 <= g41csed <=3)          then pyseda6=1;

if seda7=1 and (1 <= g49csed <= 3)                then pyseda7=1;
if seda8=1 and (1 <= g50csed <= 3)                then pyseda8=1;

if pysedal=1                                         then pysedb1=1;
if pyseda2=1 and
    ((g42ased=1) & (1 <= g42csed <= 3) & (crtage > g42bsed))
    or ((g43ased=1) & (1 <= g43csed <= 3) & (crtage > g43bsed))
    or ((g44ased=1) & (1 <= g44csed <= 3) & (crtage > g44bsed)) then pysedb2=1;
if pyseda3=1                                         then pysedb3=1;
if pyseda4=1                                         then pysedb4=1;
if pyseda5=1 and
    ((g52ased=1) & (1 <= g52csed <= 3) & (crtage > g52bsed)) then pysedb5=1;
if pyseda6=1                                         then pysedb6=1;
if pyseda7=1 and
    ((g49ased=1) & (1 <= g49csed <= 3) & (crtage > g49bsed)) then pysedb6=1;

```

```

        then pysedb7=1;
if pyseda8=1 and
((g50ased=1) & (1 <= g50csed <= 3) & (crtage > g50bsed))
        then pysedb8=1;
pysedat=sum(of pysedal-pyseda8);
pysedb=+sum(of pysedb1-pysedb8);

if pysedat >= 3 and pysedb >= 2 then dflysed=1; else dflysed=0;

*-----*
| TRANQUILIZERS full dependence during past 12 months |
*-----*
;

if trqal=1 and
(1 <= g47ctrq <=3) or (1 <= g48ctrq <= 3)      then pytrqal=1;
if trqa2=1 and
(1 <= g42ctrq <=3) or (1 <= g43ctrq <=3)
or (1 <= g44ctrq <=3)                                then pytrqa2=1;
if trqa3=1 and
(1 <= g46ctrq <=3)                                  then pytrqa3=1;
if trqa4=1 and
((1 <= g30ctrq <=3) or (1 <= g31ctrq <= 3))
or (1 <= g34ctrq <= 3)                                then pytrqa4=1;
if trqa5=1 and
(1 <= g52ctrq <=3)                                  then pytrqa5=1;
if trqa6=1 and
((1 <= g32ctrq <= 3) and (crtage > g32btrq or g32etrq=1))
or ((1 <= g33ctrq <= 3) and (crtage > g33btrq))
or ((1 <= g37ctrq <= 3) and (crtage > g37btrq))
or ((1 <= g38ctrq <= 3) and (crtage > g38btrq))
or ((1 <= rcusetrq <= 3) & (crtage > g32btrq or g32etrq=1))
or ((1 <= rcusetrq <= 3) & (crtage > g33btrq))
or ((1 <= rcusetrq <= 3) & (crtage > g37btrq))
or ((1 <= rcusetrq <= 3) & (crtage > g38btrq)) then pytrqa6=1;
if g41atrq eq 1 and (1 <= g41ctrq <=3)            then pytrqa6=1;

if trqa7=1 and (1 <= g49ctrq <= 3)                then pytrqa7=1;
if trqa8=1 and (1 <= g50ctrq <= 3)                then pytrqa8=1;

if pytrqal=1                                         then pytrqb1=1;
if pytrqa2=1 and
((g42atrq=1) & (1 <= g42ctrq <= 3) & (crtage > g42btrq))
or ((g43atrq=1) & (1 <= g43ctrq <= 3) & (crtage > g43btrq))
or ((g44atrq=1) & (1 <= g44ctrq <= 3) & (crtage > g44btrq)) then pytrqb2=1;
if pytrqa3=1                                         then pytrqb3=1;
if pytrqa4=1                                         then pytrqb4=1;
if pytrqa5=1 and
((g52atrq=1) & (1 <= g52ctrq <= 3) & (crtage > g52btrq)) then pytrqb5=1;
if pytrqa6=1                                         then pytrqb6=1;

```

```

if pytrqa7=1 and
    ((g49atrq=1) & (1 <= g49ctrq <= 3) & (crtage > g49btrq))
        then pytrqb7=1;
if pytrqa8=1 and
    ((g50atrq=1) & (1 <= g50ctrq <= 3) & (crtage > g50btrq))
        then pytrqb8=1;
pytrqat=sum(of pytrqal-pytrqa8);
pytrqbt=sum(of pytrqbl-pytrqb8);

if pytrqat >= 3 and pytrqbt >= 2 then dflytrq=1; else dflytrq=0;

*-----*
|   STIMULANTS      full dependence during past 12 months   |
*-----*|
;

if stial=1 and
    (1 <= g47csti <=3) or (1 <= g48csti <= 3)    then pystial=1;
if stia2=1 and
    (1 <= g42csti <=3) or (1 <= g43csti <=3)
    or (1 <= g44csti <=3)                                then pystia2=1;
if stia3=1 and
    (1 <= g46csti <=3)                                then pystia3=1;
if stia4=1 and
    ((1 <= g30csti <=3) or (1 <= g31csti <= 3))
    or (1 <= g34csti <= 3)                                then pystia4=1;
if stia5=1 and
    (1 <= g52csti <=3)                                then pystia5=1;
if stia6=1 and
    ((1 <= g32csti <= 3) and (crtage > g32bsti or g32esti=1))
    or ((1 <= g33csti <= 3) and (crtage > g33bsti))
    or ((1 <= g37csti <= 3) and (crtage > g37bsti))
    or ((1 <= g38csti <= 3) and (crtage > g38bsti))
    or ((1 <= rcusesti <= 3) & (crtage > g32bsti or g32esti=1))
    or ((1 <= rcusesti <= 3) & (crtage > g33bsti))
    or ((1 <= rcusesti <= 3) & (crtage > g37bsti))
    or ((1 <= rcusesti <= 3) & (crtage > g38bsti)) then pystia6=1;
if g4lasti eq 1 and (1 <= g41csti <=3)                then pystia6=1;

if stia7=1 and (1 <= g49csti <= 3)                  then pystia7=1;
if stia8=1 and (1 <= g50csti <= 3)                  then pystia8=1;

if pystial=1                                         then pystibl=1;
if pystia2=1 and
    ((g42asti=1) & (1 <= g42csti <= 3) & (crtage > g42bsti))
    or ((g43asti=1) & (1 <= g43csti <= 3) & (crtage > g43bsti))
    or ((g44asti=1) & (1 <= g44csti <= 3) & (crtage > g44bsti)) then pystib2=1;
if pystia3=1                                         then pystib3=1;
if pystia4=1                                         then pystib4=1;
if pystia5=1 and
    ((g52asti=1) & (1 <= g52csti <= 3) & (crtage > g52bsti))
```

```

        then pystib5=1;
if pystia6=1
        then pystib6=1;
if pystia7=1 and
    ((g49asti=1) & (1 <= g49csti <= 3) & (crtage > g49bsti))
        then pystib7=1;
if pystia8=1 and
    ((g50asti=1) & (1 <= g50csti <= 3) & (crtage > g50bsti))
        then pystib8=1;
pystiat=sum(of pystial-pystia8);
pystibt=sum(of pystib1-pystib8);

if pystiat >= 3 and pystibt >= 2 then dflysti=1; else dflysti=0;

*-----*
| ANALGESICS      full dependence during past 12 months |
*-----*;
;

if agsal=1 and
    (1 <= g47cags <=3) or (1 <= g48cags <= 3)      then pyagsal=1;
if agsa2=1 and
    (1 <= g42cags <=3) or  (1 <= g43cags <=3)
    or (1 <= g44cags <=3)                                then pyagsa2=1;
if agsa3=1 and
    (1 <= g46cags <=3)                                then pyagsa3=1;
if agsa4=1 and
    ((1 <= g30cags <=3) or (1 <= g31cags <= 3))
    or (1 <= g34cags <= 3)                            then pyagsa4=1;
if agsa5=1 and
    (1 <= g52cags <=3)                                then pyagsa5=1;
if agsa6=1 and
    ((1 <= g32cags <= 3) and (crtage > g32bags or g32eags=1))
    or ((1 <= g33cags <= 3) and (crtage > g33bags))
    or ((1 <= g37cags <= 3) and (crtage > g37bags))
    or ((1 <= g38cags <= 3) and (crtage > g38bags))
    or ((1 <= rcuseags <= 3) & (crtage > g32bags or g32eags=1))
    or ((1 <= rcuseags <= 3) & (crtage > g33bags))
    or ((1 <= rcuseags <= 3) & (crtage > g37bags))
    or ((1 <= rcuseags <= 3) & (crtage > g38bags)) then pyagsa6=1;
if g4laags eq 1 and (1 <= g41cags <=3)      then pyagsa6=1;

if agsa7=1 and (1 <= g49cags <= 3)          then pyagsa7=1;
if agsa8=1 and (1 <= g50cags <= 3)          then pyagsa8=1;

if pyagsal=1                                     then pyagsbl=1;
if pyagsa2=1 and
    ((g42aags=1) & (1 <= g42cags <= 3) & (crtage > g42bags))
    or ((g43aags=1) & (1 <= g43cags <= 3) & (crtage > g43bags))
    or ((g44aags=1) & (1 <= g44cags <= 3) & (crtage > g44bags))
        then pyagsb2=1;
if pyagsa3=1                                     then pyagsb3=1;
if pyagsa4=1                                     then pyagsb4=1;

```

```

if pyagsa5=1 and
    ((g52aags=1) & (1 <= g52cags <= 3) & (crtage > g52bags))
        then pyagsb5=1;
if pyagsa6=1
    then pyagsb6=1;
if pyagsa7=1 and
    ((g49aags=1) & (1 <= g49cags <= 3) & (crtage > g49bags))
        then pyagsb7=1;
if pyagsa8=1 and
    ((g50aags=1) & (1 <= g50cags <= 3) & (crtage > g50bags))
        then pyagsb8=1;
pyagsat=sum(of pyagsal-pyagsa8);
pyagsbt=sum(of pyagsbl-pyagsb8);

if pyagsat >= 3 and pyagsbt >= 2 then dflyags=1; else dflyags=0;

*-----*-----*-----*
| INHALANTS      full dependence during past 12 months |
*-----*-----*-----*

;

if inhal1=1 and
    (1 <= g47cinh <=3) or (1 <= g48cinh <= 3) then pyinhal=1;
if inha2=1 and
    (1 <= g42cinh <=3) or (1 <= g43cinh <=3)
    or (1 <= g44cinh <=3) then pyinha2=1;
if inha3=1 and
    (1 <= g46cinh <=3) then pyinha3=1;
if inha4=1 and
    (1 <= g30cinh <=3) or (1 <= g31cinh <= 3)
    or (1 <= g34cinh <= 3) then pyinha4=1;
if inha5=1 and
    (1 <= g52cinh <=3) then pyinha5=1;
if inha6=1 and
    ((1 <= g32cinh <= 3) and (crtage > g32binh or g32einh=1))
    or ((1 <= g33cinh <= 3) and (crtage > g33binh))
    or ((1 <= g37cinh <= 3) and (crtage > g37binh))
    or ((1 <= g38cinh <= 3) and (crtage > g38binh))
    or ((1 <= rcuseinh <= 3) & (crtage > g32binh or g32einh=1))
    or ((1 <= rcuseinh <= 3) & (crtage > g33binh))
    or ((1 <= rcuseinh <= 3) & (crtage > g37binh))
    or ((1 <= rcuseinh <= 3) & (crtage > g38binh)) then pyinha6=1;
if g41ainh eq 1 and (1 <= g41cinh <=3) then pyinha6=1;

if inha7=1 and (1 <= g49cinh <= 3) then pyinha7=1;
if inha8=1 and (1 <= g50cinh <= 3) then pyinha8=1;

if pyinhal=1 then pyinhb1=1;
if pyinha2=1 and
    ((g42ainh=1) & (1 <= g42cinh <= 3) & (crtage > g42binh))
    or ((g43ainh=1) & (1 <= g43cinh <= 3) & (crtage > g43binh))
    or ((g44ainh=1) & (1 <= g44cinh <= 3) & (crtage > g44binh))
        then pyinhb2=1;

```

```

if pyinha3=1                                then pyinhb3=1;
if pyinha4=1                                then pyinhb4=1;
if pyinha5=1 and
    ((g52ainh=1) & (1 <= g52cinh <= 3) & (crtage > g52binh))
        then pyinhb5=1;
if pyinha6=1                                then pyinhb6=1;
if pyinha7=1 and
    ((g49ainh=1) & (1 <= g49cinh <= 3) & (crtage > g49binh))
        then pyinhb7=1;
if pyinha8=1 and
    ((g50ainh=1) & (1 <= g50cinh <= 3) & (crtage > g50binh))
        then pyinhb8=1;
pyinhat=sum(of pyinhal-pyinha8);
pyinhbt=sum(of pyinhbl-pyinhb8);

if pyinhat >= 3 and pyinhbt >= 2 then dflyinh=1; else dflyinh=0;

*-----*-----*-----*
| MARIJUANA      full dependence during past 12 months |
*-----*-----*-----*

;

if maral=1 and
    (1 <= g47cmar <=3) or (1 <= g48cmar <= 3) then pymaral=1;
if mara2=1 and
    (1 <= g42cmar <=3) or (1 <= g43cmar <=3)
        or (1 <= g44cmar <=3) then pymara2=1;
if mara3=1 and
    (1 <= g46cmar <=3) then pymara3=1;
if mara4=1 and
    (1 <= g30cmar <=3) or (1 <= g31cmar <= 3)
        or (1 <= g34cmar <= 3) then pymara4=1;
if mara5=1 and
    (1 <= g52cmar <=3) then pymara5=1;
if mara6=1 and
    ((1 <= g32cmar <= 3) and (crtage > g32bmar or g32emar=1))
        or ((1 <= g33cmar <= 3) and (crtage > g33bmar))
        or ((1 <= g37cmar <= 3) and (crtage > g37bmar))
        or ((1 <= g38cmar <= 3) and (crtage > g38bmar))
        or ((1 <= rcusemar <= 3) & (crtage > g32bmar or g32emar=1))
        or ((1 <= rcusemar <= 3) & (crtage > g33bmar))
        or ((1 <= rcusemar <= 3) & (crtage > g37bmar))
        or ((1 <= rcusemar <= 3) & (crtage > g38bmar)) then pymara6=1;
if g41amar eq 1 and (1 <= g41cmar <=3) then pymara6=1;
if mara7=1 and (1 <= g49cmar <= 3) then pymara7=1;
if mara8=1 and (1 <= g50cmar <= 3) then pymara8=1;

if pymaral=1                                then pymarbl=1;
if pymara2=1 and
    ((g42amar=1) & (1 <= g42cmar <= 3) & (crtage > g42bmar))
        or ((g43amar=1) & (1 <= g43cmar <= 3) & (crtage > g43bmar))

```

```

        or ((g44amar=1) & (1 <= g44cmar <= 3) & (crtage > g44bmar))
                                         then pymarb2=1;
if pymara3=1
                                         then pymarb3=1;
if pymara4=1
                                         then pymarb4=1;
if pymara5=1 and
    ((g52amar=1) & (1 <= g52cmar <= 3) & (crtage > g52bmar))
                                         then pymarb5=1;
if pymara6=1
                                         then pymarb6=1;
if pymara7=1 and
    ((g49amar=1) & (1 <= g49cmar <= 3) & (crtage > g49bmar))
                                         then pymarb7=1;
if pymara8=1 and
    ((g50amar=1) & (1 <= g50cmar <= 3) & (crtage > g50bmar))
                                         then pymarb8=1;
pymarat=sum(of pymaral-pymara8);
pymarbt=sum(of pymarbl-pymarb8);

if pymarat >= 3 and pymarbt >= 2 then dflymar=1; else dflymar=0;

*-----*
| COCAINE      full dependence during past 12 months |
*-----*
;

if cocal=1 and
    (1 <= g47ccoc <=3) or (1 <= g48ccoc <= 3) then pycocal=1;
if coca2=1 and
    (1 <= g42ccoc <=3) or (1 <= g43ccoc <=3)
    or (1 <= g44ccoc <=3) then pycoca2=1;
if coca3=1 and
    (1 <= g46ccoc <=3) then pycoca3=1;
if coca4=1 and
    (1 <= g30ccoc <=3) or (1 <= g31ccoc <= 3)
    or (1 <= g34ccoc <= 3) then pycoca4=1;
if coca5=1 and
    (1 <= g52ccoc <=3) then pycoca5=1;
if coca6=1 and
    ((1 <= g32ccoc <= 3) and (crtage > g32bcoc or g32bcoc=1))
    or ((1 <= g33ccoc <= 3) and (crtage > g33bcoc))
    or ((1 <= g37ccoc <= 3) and (crtage > g37bcoc))
    or ((1 <= g38ccoc <= 3) and (crtage > g38bcoc))
    or ((1 <= rcusecoc <= 3) & (crtage > g32bcoc or g32ecoc=1))
    or ((1 <= rcusecoc <= 3) & (crtage > g33bcoc))
    or ((1 <= rcusecoc <= 3) & (crtage > g37bcoc))
    or ((1 <= rcusecoc <= 3) & (crtage > g38bcoc)) then pycoca6=1;
if g41acoc eq 1 and (1 <= g41ccoc <=3) then pycoca6=1;

if coca7=1 and (1 <= g49ccoc <= 3) then pycoca7=1;
if coca8=1 and (1 <= g50ccoc <= 3) then pycoca8=1;

if pycocal=1                                         then pycochl=1;
if pycoca2=1 and

```

```

((g42acoc=1) & (1 <= g42ccoc <= 3) & (crtage > g42bcoc))
or ((g43acoc=1) & (1 <= g43ccoc <= 3) & (crtage > g43bcoc))
or ((g44acoc=1) & (1 <= g44ccoc <= 3) & (crtage > g44bcoc))
then pycocb2=1;
if pycoca3=1
then pycocb3=1;
if pycoca4=1
then pycocb4=1;
if pycoca5=1 and
((g52acoc=1) & (1 <= g52ccoc <= 3) & (crtage > g52bcoc))
then pycocb5=1;
if pycoca6=1
then pycocb6=1;
if pycoca7=1 and
((g49acoc=1) & (1 <= g49ccoc <= 3) & (crtage > g49bcoc))
then pycocb7=1;
if pycoca8=1 and
((g50acoc=1) & (1 <= g50ccoc <= 3) & (crtage > g50bcoc))
then pycocb8=1;
pycocat=sum(of pycocal-pycoca8);
pycocbt=sum(of pycocbl-pycocb8);

if pycocat >= 3 and pycocbt >= 2 then dflycoc=1; else dflycoc=0;

*-----*
| HALLUCINOGENS full dependence during past 12 months |
*-----*
;

if halal=1 and
(1 <= g47chal <=3) or (1 <= g48chal <= 3) then pyhalal=1;
if hala2=1 and
(1 <= g42chal <=3) or (1 <= g43chal <=3)
or (1 <= g44chal <=3) then pyhala2=1;
if hala3=1 and
(1 <= g46chal <=3) then pyhala3=1;
if hala4=1 and
(1 <= g30chal <=3) or (1 <= g31chal <= 3)
or (1 <= g34chal <= 3) then pyhala4=1;
if hala5=1 and
(1 <= g52chal <=3) then pyhala5=1;
if hala6=1 and
((1 <= g32chal <= 3) and (crtage > g32bhal or g32ehal=1))
or ((1 <= g33chal <= 3) and (crtage > g33bhal))
or ((1 <= g37chal <= 3) and (crtage > g37bhal))
or ((1 <= g38chal <= 3) and (crtage > g38bhal))
or ((1 <= rcusehal <= 3) & (crtage > g32bhal or g32ehal=1))
or ((1 <= rcusehal <= 3) & (crtage > g33bhal))
or ((1 <= rcusehal <= 3) & (crtage > g37bhal))
or ((1 <= rcusehal <= 3) & (crtage > g38bhal)) then pyhala6=1;
if g41ahal eq 1 and (1 <= g41chal <=3) then pyhala6=1;

if hala7=1 and (1 <= g49chal <= 3) then pyhala7=1;
if hala8=1 and (1 <= g50chal <= 3) then pyhala8=1;

```

```

if pyhalal=1                                then pyhalbl=1;
if pyhala2=1 and
    ((g42ahal=1) & (1 <= g42chal <= 3) & (crtage > g42bhal))
    or ((g43ahal=1) & (1 <= g43chal <= 3) & (crtage > g43bhal))
    or ((g44ahal=1) & (1 <= g44chal <= 3) & (crtage > g44bhal))
        then pyhalb2=1;
if pyhala3=1                                then pyhalb3=1;
if pyhala4=1                                then pyhalb4=1;
if pyhala5=1 and
    ((g52ahal=1) & (1 <= g52chal <= 3) & (crtage > g52bhal))
        then pyhalb5=1;
if pyhala6=1                                then pyhalb6=1;
if pyhala7=1 and
    ((g49ahal=1) & (1 <= g49chal <= 3) & (crtage > g49bhal))
        then pyhalb7=1;
if pyhala8=1 and
    ((g50ahal=1) & (1 <= g50chal <= 3) & (crtage > g50bhal))
        then pyhalb8=1;
pyhalat=sum(of pyhalal-pyhala8);
pyhalbt=sum(of pyhalbl-pyhalb8);

if pyhalat >= 3 and pyhalbt >= 2 then dflyhal=1; else dflyhal=0;

*-----*-----*-----*
| HEROIN      full dependence during past 12 months |
*-----*-----*-----*
;

if heral=1 and
    (1 <= g47cher <=3) or (1 <= g48cher <= 3) then pyheral=1;
if hera2=1 and
    (1 <= g42cher <=3) or (1 <= g43cher <=3)
    or (1 <= g44cher <=3) then pyhera2=1;
if hera3=1 and
    (1 <= g46cher <=3) then pyhera3=1;
if hera4=1 and
    (1 <= g30cher <=3) or (1 <= g31cher <= 3)
    or (1 <= g34cher <= 3) then pyhera4=1;
if hera5=1 and
    (1 <= g52cher <=3) then pyhera5=1;
if hera6=1 and
    ((1 <= g32cher <= 3) and (crtage > g32bher or g32eher=1))
    or ((1 <= g33cher <= 3) and (crtage > g33bher))
    or ((1 <= g37cher <= 3) and (crtage > g37bher))
    or ((1 <= g38cher <= 3) and (crtage > g38bher))
    or ((1 <= rcuseher <= 3) & (crtage > g32bher or g32eher=1))
    or ((1 <= rcuseher <= 3) & (crtage > g33bher))
    or ((1 <= rcuseher <= 3) & (crtage > g37bher))
    or ((1 <= rcuseher <= 3) & (crtage > g38bher)) then pyhera6=1;
if g41aher eq 1 and (1 <= g41cher <=3) then pyhera6=1;

if hera7=1 and (1 <= g49cher <= 3) then pyhera7=1;

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if hera8=1 and (1 <= g50cher <= 3)           then pyhera8=1;

if pyheral=1                                     then pyherbl=1;
if pyhera2=1 and
  ((g42aher=1) & (1 <= g42cher <= 3) & (crtage > g42bher))
  or ((g43aher=1) & (1 <= g43cher <= 3) & (crtage > g43bher))
  or ((g44aher=1) & (1 <= g44cher <= 3) & (crtage > g44bher))
    then pyherb2=1;
if pyhera3=1                                     then pyherb3=1;
if pyhera4=1                                     then pyherb4=1;
if pyhera5=1 and
  ((g52aher=1) & (1 <= g52cher <= 3) & (crtage > g52bher))
    then pyherb5=1;
if pyhera6=1                                     then pyherb6=1;
if pyhera7=1 and
  ((g49aher=1) & (1 <= g49cher <= 3) & (crtage > g49bher))
    then pyherb7=1;
if pyhera8=1 and
  ((g50aher=1) & (1 <= g50cher <= 3) & (crtage > g50bher))
    then pyherb8=1;

pyherat=sum(of pyheral-pyhera8);
pyherbt=sum(of pyherbl-pyherb8);

if pyherat >= 3 and pyherbt >= 2 then dflyher=1; else dflyher=0;

```

```

*-----*
      DEPENDENCE FULL CRITERIA DURING PAST MONTH
      had 3 A and 2 B criteria all within the past month.
      note difference from lifetime criteria: only 8 A criteria
          available (no g51cxx0) also no g36c, no g36d
      1=yes 0=no
      VAR NAMES: DF1Mxxx
*-----*;

if alcal=1 and
    g47calc=1 or g48calc=1 then pmalcal=1;
if alca2=1 and
    g42calc=1 or g43calc=1
    or g44calc=1
then pmalca2=1;
if alca3=1 and
    g46calc=1
then pmalca3=1;
if alca4=1 and
    ( g30calc=1 or g31calc=1)
    or g34calc=1
then pmalca4=1;
if alca5=1 and
    g52calc=1
then pmalca5=1;
if alca6=1 and
    ( g32calc=1 and (crtage > g32balc or g32ealc=1))
    or ( g33calc=1 and (crtage > g33balc))
    or ( g37calc=1 and (crtage > g37balc))
    or ( g38calc=1 and (crtage > g38balc)) then pmalca6=1;
if g41aalc eq 1 and g41calc=1
then pmalca6=1;
if drk12pyr eq 1 and
    ((g32aalc eq 1) and (crtage > g32balc or g32ealc=1))
    or ((g33aalc eq 1) and (crtage > g33balc))
    or ((g37aalc eq 1) and (crtage > g37balc))
    or ((g38aalc eq 1) and (crtage > g38balc)) then pmalca6=1;
if alca7=1 and g49calc=1
then pmalca7=1;
if alca8=1 and g50calc=1
then pmalca8=1;

if pmalcal=1
then pmalcb1=1;
if pmalca2=1 and
    ((g42aalc=1) & g42calc=1 & (crtage > g42balc))
    or ((g43aalc=1) & g43calc=1 & (crtage > g43balc))
    or ((g44aalc=1) & g44calc=1 & (crtage > g44balc))
then pmalcb2=1;
if pmalca3=1
then pmalcb3=1;
if pmalca4=1
then pmalcb4=1;
if pmalca5=1 and
    ((g52aalc=1) & g52calc=1 & (crtage > g52balc))
then pmalcb5=1;
if pmalca6=1
then pmalcb6=1;
if pmalca7=1 and
    ((g49aalc=1) & g49calc=1 & (crtage > g49balc))
then pmalcb7=1;
if pmalca8=1 and
    ((g50aalc=1) & g50calc=1 & (crtage > g50balc))

```

```

        then pmalcb8=1;
pmalcat=sum(of pmalcal-pmalca8);
pmalcbt=sum(of pmalcb1-pmalcb8);

if pmalcat >= 3 and pmalcbt >= 2 then df1malc=1; else df1malc=0;

*-----*-----*-----*
|           SEDATIVES full dependence during past month           |
*-----*-----*-----*

;

if seda1=1 and
   g47csed=1 or  g48csed=1                                then pmse1=1;
if seda2=1 and
   g42csed=1 or  g43csed=1                                then pmse2=1;
or  g44csed=1
if seda3=1 and
   g46csed=1                                then pmse3=1;
if seda4=1 and
   ( g30csed=1 or  g31csed=1)
   or  g34csed=1                                then pmse4=1;
if seda5=1 and
   g52csed=1                                then pmse5=1;
if seda6=1 and
   ( g32csed=1 and (crtage > g32bsed or g32esed=1))
   or ( g33csed=1 and (crtage > g33bsed))
   or ( g37csed=1 and (crtage > g37bsed))
   or ( g38csed=1 and (crtage > g38bsed))
   or ( rcusesed=1 & (crtage > g32bsed or g32esed=1))
   or ( rcusesed=1 & (crtage > g33bsed))
   or ( rcusesed=1 & (crtage > g37bsed))
   or ( rcusesed=1 & (crtage > g38bsed)) then pmse6=1;
if g41ased eq 1 and  g41csed=1                                then pmse6=1;

if seda7=1 and  g49csed=1                                then pmse7=1;
if seda8=1 and  g50csed=1                                then pmse8=1;

if pmse1=1                                then pmseb1=1;
if pmse2=1 and
   ((g42ased=1) &  g42csed=1 & (crtage > g42bsed))
   or ((g43ased=1) &  g43csed=1 & (crtage > g43bsed))
   or ((g44ased=1) &  g44csed=1 & (crtage > g44bsed)) then pmseb2=1;
if pmse3=1                                then pmseb3=1;
if pmse4=1                                then pmseb4=1;
if pmse5=1 and
   ((g52ased=1) &  g52csed=1 & (crtage > g52bsed)) then pmseb5=1;
if pmse6=1                                then pmseb6=1;
if pmse7=1 and
   ((g49ased=1) &  g49csed=1 & (crtage > g49bsed)) then pmseb7=1;

```

```

if pmseda8=1 and
  ((g50ased=1) & g50csed=1 & (crtage > g50bsed))

then pmsedb8=1;

pmsedat=sum(of pmsedal-pmseda8);
pmsedbt=sum(of pmsedbl-pmsedb8);

if pmsedat >= 3 and pmsedbt >= 2 then df1msed=1; else df1msed=0;

*-----*
|   TRANQUILIZERS full dependence during past month
*-----*
;

if trqal=1 and
  g47ctrq=1 or g48ctrq=1           then pmtrqal=1;
if trqa2=1 and
  g42ctrq=1 or g43ctrq=1           then pmtrqa2=1;
or g44ctrq=1                         then pmtrqa2=1;
if trqa3=1 and
  g46ctrq=1                         then pmtrqa3=1;
if trqa4=1 and
  ( g30ctrq=1 or g31ctrq=1)         then pmtrqa4=1;
  or g34ctrq=1                         then pmtrqa4=1;
if trqa5=1 and
  g52ctrq=1                         then pmtrqa5=1;
if trqa6=1 and
  ( g32ctrq=1 and (crtage > g32btrq or g32etrq=1))
  or ( g33ctrq=1 and (crtage > g33btrq))
  or ( g37ctrq=1 and (crtage > g37btrq))
  or ( g38ctrq=1 and (crtage > g38btrq))
  or ( rcusetrq=1 & (crtage > g32btrq or g32etrq=1))
  or ( rcusetrq=1 & (crtage > g33btrq))
  or ( rcusetrq=1 & (crtage > g37btrq))
  or ( rcusetrq=1 & (crtage > g38btrq)) then pmtrqa6=1;
if g41atrq eq 1 and g41ctrq=1       then pmtrqa6=1;

if trqa7=1 and g49ctrq=1           then pmtrqa7=1;
if trqa8=1 and g50ctrq=1           then pmtrqa8=1;

if pmtrqal=1                       then pmtrqb1=1;
if pmtrqa2=1 and
  ((g42atrq=1) & g42ctrq=1 & (crtage > g42btrq))
  or ((g43atrq=1) & g43ctrq=1 & (crtage > g43btrq))
  or ((g44atrq=1) & g44ctrq=1 & (crtage > g44btrq))
  then pmtrqb2=1;
if pmtrqa3=1                         then pmtrqb3=1;
if pmtrqa4=1                         then pmtrqb4=1;
if pmtrqa5=1 and
  ((g52atrq=1) & g52ctrq=1 & (crtage > g52btrq))
  then pmtrqb5=1;
if pmtrqa6=1                         then pmtrqb6=1;

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```

if pmtrqa7=1 and
   ((g49atrq=1) & g49ctrq=1 & (crtage > g49btrq))
      then pmtrqb7=1;
if pmtrqa8=1 and
   ((g50atrq=1) & g50ctrq=1 & (crtage > g50btrq))

      then pmtrqb8=1;
pmtrqat=sum(of pmtrqal-pmtrqa8);
pmtrqbt=sum(of pmtrqbl-pmtrqb8);

if pmtrqat >= 3 and pmtrqbt >= 2 then df1mtrq=1; else df1mtrq=0;

*-----*
|   STIMULANTS    full dependence during past month   |
*-----*
;

if stial=1 and
   g47csti=1 or g48csti=1
      then pmstial=1;
if stia2=1 and
   g42csti=1 or g43csti=1
      or g44csti=1
      then pmstia2=1;
if stia3=1 and
   g46csti=1
      then pmstia3=1;
if stia4=1 and
   ( g30csti=1 or g31csti=1)
   or g34csti=1
      then pmstia4=1;
if stia5=1 and
   g52csti=1
      then pmstia5=1;
if stia6=1 and
   ( g32csti=1 and (crtage > g32bsti or g32esti=1))
   or ( g33csti=1 and (crtage > g33bsti))
   or ( g37csti=1 and (crtage > g37bsti))
   or ( g38csti=1 and (crtage > g38bsti))
   or ( rcusesti=1 & (crtage > g32bsti or g32esti=1))
   or ( rcusesti=1 & (crtage > g33bsti))
   or ( rcusesti=1 & (crtage > g37bsti))
   or ( rcusesti=1 & (crtage > g38bsti)) then pmstia6=1;
if g4lasti eq 1 and g4lcsti=1
      then pmstia6=1;
if stia7=1 and g49csti=1
      then pmstia7=1;
if stia8=1 and g50csti=1
      then pmstia8=1;

if pmstial=1
      then pmstibl=1;
if pmstia2=1 and
   ((g42asti=1) & g42csti=1 & (crtage > g42bsti))
   or ((g43asti=1) & g43csti=1 & (crtage > g43bsti))
   or ((g44asti=1) & g44csti=1 & (crtage > g44bsti))
      then pmstib2=1;
if pmstia3=1
      then pmstib3=1;
if pmstia4=1
      then pmstib4=1;
if pmstia5=1 and

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((g52asti=1) & g52csti=1 & (crtage > g52bsti))
                                         then pmstib5=1;
if pmstia6=1
                                         then pmstib6=1;
if pmstia7=1 and
    ((g49asti=1) & g49csti=1 & (crtage > g49bsti))
                                         then pmstib7=1;
if pmstia8=1 and
    ((g50asti=1) & g50csti=1 & (crtage > g50bsti))

                                         then pmstib8=1;
pmstiat=sum(of pmstia1-pmstia8);
pmstibt=sum(of pmstib1-pmstib8);

if pmstiat >= 3 and pmstibt >= 2 then df1msti=1; else df1msti=0;

*-----*
|      ANALGESICS      full dependence during past month      |
*-----*;

if agsal=1 and
    g47cags=1 or g48cags=1
                                         then pmagsal=1;
if agsa2=1 and
    g42cags=1 or g43cags=1
                                         or g44cags=1
                                         then pmagsa2=1;
if agsa3=1 and
    g46cags=1
                                         then pmagsa3=1;
if agsa4=1 and
    ( g30cags=1 or g31cags=1)
    or g34cags=1
                                         then pmagsa4=1;
if agsa5=1 and
    g52cags=1
                                         then pmagsa5=1;
if agsa6=1 and
    ( g32cags=1 and (crtage > g32bags or g32eags=1))
    or ( g33cags=1 and (crtage > g33bags))
    or ( g37cags=1 and (crtage > g37bags))
    or ( g38cags=1 and (crtage > g38bags))
    or ( rcuseags=1 & (crtage > g32bags or g32eags=1))
    or ( rcuseags=1 & (crtage > g33bags))
    or ( rcuseags=1 & (crtage > g37bags))
    or ( rcuseags=1 & (crtage > g38bags)) then pmagsa6=1;
if g41aags eq 1 and g41cags=1
                                         then pmagsa6=1;

if agsa7=1 and g49cags=1
                                         then pmagsa7=1;
if agsa8=1 and g50cags=1
                                         then pmagsa8=1;

if pmagsal=1
                                         then pmagsbl=1;
if pmagsa2=1 and
    ((g42aags=1) & g42cags=1 & (crtage > g42bags))
    or ((g43aags=1) & g43cags=1 & (crtage > g43bags))
    or ((g44aags=1) & g44cags=1 & (crtage > g44bags))

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        then pmagsb2=1;
if pmagsa3=1          then pmagsb3=1;
if pmagsa4=1          then pmagsb4=1;
if pmagsa5=1 and      ((g52aags=1) & g52cags=1 & (crtage > g52bags))
                           then pmagsb5=1;
if pmagsa6=1          then pmagsb6=1;
if pmagsa7=1 and      ((g49aags=1) & g49cags=1 & (crtage > g49bags))
                           then pmagsb7=1;
if pmagsa8=1 and      ((g50aags=1) & g50cags=1 & (crtage > g50bags))
                           then pmagsb8=1;
pmagsat=sum(of pmagsa1-pmagsa8);
pmagsbt=sum(of pmagsb1-pmagsb8);

if pmagsat >= 3 and pmagsbt >= 2 then df1mags=1; else df1mags=0;

*-----*
| INHALANTS      full dependence during past month | *-----*
*-----*
;

if inhal1=1 and
   g47cinh=1 or  g48cinh=1           then pminhal=1;
if inha2=1 and
   g42cinh=1 or  g43cinh=1           then pminha2=1;
if inha3=1 and
   g46cinh=1                         then pminha3=1;
if inha4=1 and
   g30cinh=1 or  g31cinh=1           then pminha4=1;
if inha5=1 and
   g52cinh=1                         then pminha5=1;
if inha6=1 and
   ( g32cinh=1 and (crtage > g32binh or g32einh=1)
   or ( g33cinh=1 and (crtage > g33binh))
   or ( g37cinh=1 and (crtage > g37binh))
   or ( g38cinh=1 and (crtage > g38binh))
   or ( rcuseinh=1 & (crtage > g32binh or g32einh=1))
   or ( rcuseinh=1 & (crtage > g33binh))
   or ( rcuseinh=1 & (crtage > g37binh))
   or ( rcuseinh=1 & (crtage > g38binh)) ) then pminha6=1;
if g41ainh eq 1 and g41cinh=1       then pminha6=1;

if inha7=1 and  g49cinh=1           then pminha7=1;
if inha8=1 and  g50cinh=1           then pminha8=1;

if pminhal=1                      then pminhb1=1;
if pminha2=1 and

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((g42ainh=1) & g42cinh=1 & (crtage > g42binh))
or ((g43ainh=1) & g43cinh=1 & (crtage > g43binh))
or ((g44ainh=1) & g44cinh=1 & (crtage > g44binh))
then pminhb2=1;
if pminha3=1 then pminhb3=1;
if pminha4=1 then pminhb4=1;
if pminha5=1 and
   ((g52ainh=1) & g52cinh=1 & (crtage > g52binh))
then pminhb5=1;
if pminha6=1 then pminhb6=1;
if pminha7=1 and
   ((g49ainh=1) & g49cinh=1 & (crtage > g49binh))
then pminhb7=1;
if pminha8=1 and
   ((g50ainh=1) & g50cinh=1 & (crtage > g50binh))
then pminhb8=1;
pminhat=sum(of pminhal-pminha8);
pminhbt=sum(of pminhbl-pminhb8);

if pminhat >= 3 and pminhbt >= 2 then df1minh=1; else df1minh=0;

*-----*
| MARIJUANA      full dependence during past month |
*-----*
;

if maral=1 and
   g47cmar=1 or g48cmar=1 then pmmaral=1;
if mara2=1 and
   g42cmar=1 or g43cmar=1
   or g44cmar=1 then pmmara2=1;
if mara3=1 and
   g46cmar=1 then pmmara3=1;
if mara4=1 and
   g30cmar=1 or g31cmar=1
   or g34cmar=1 then pmmara4=1;
if mara5=1 and
   g52cmar=1 then pmmara5=1;
if mara6=1 and
   ( g32cmar=1 and (crtage > g32bmar or g32emar=1))
   or ( g33cmar=1 and (crtage > g33bmar))
   or ( g37cmar=1 and (crtage > g37bmar))
   or ( g38cmar=1 and (crtage > g38bmar))
   or ( rcusemar=1 & (crtage > g32bmar or g32emar=1))
   or ( rcusemar=1 & (crtage > g33bmar))
   or ( rcusemar=1 & (crtage > g37bmar))
   or ( rcusemar=1 & (crtage > g38bmar)) then pmmara6=1;
if g41amar eq 1 and g41cmar=1 then pmmara6=1;

if mara7=1 and g49cmar=1 then pmmara7=1;
if mara8=1 and g50cmar=1 then pmmara8=1;

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```

if pmmaral=1                                then pmmarbl=1;
if pmmara2=1 and
  ((g42amar=1) & g42cmar=1 & (crtage > g42bmar))
  or ((g43amar=1) & g43cmar=1 & (crtage > g43bmar))
  or ((g44amar=1) & g44cmar=1 & (crtage > g44bmar))
                                              then pmmarb2=1;
if pmmara3=1                                then pmmarb3=1;
if pmmara4=1                                then pmmarb4=1;
if pmmara5=1 and
  ((g52amar=1) & g52cmar=1 & (crtage > g52bmar))
                                              then pmmarb5=1;
if pmmara6=1                                then pmmarb6=1;
if pmmara7=1 and
  ((g49amar=1) & g49cmar=1 & (crtage > g49bmar))
                                              then pmmarb7=1;
if pmmara8=1 and
  ((g50amar=1) & g50cmar=1 & (crtage > g50bmar))
                                              then pmmarb8=1;
pmmarat=sum(of pmmaral-pmmara8);
pmmarbt=sum(of pmmarbl-pmmarb8);

if pmmarat >= 3 and pmmarbt >= 2 then df1mmar=1; else df1mmar=0;

*-----*
|      COCAINE      full dependence during past month      |
*-----*
;

if cocal=1 and
  g47ccoc=1 or  g48ccoc=1                                then pmcocal=1;
if coca2=1 and
  g42ccoc=1 or  g43ccoc=1                                then pmcoca2=1;
  or  g44ccoc=1
if coca3=1 and
  g46ccoc=1                                              then pmcoca3=1;
if coca4=1 and
  g30ccoc=1 or  g31ccoc=1                                then pmcoca4=1;
  or  g34ccoc=1
if coca5=1 and
  g52ccoc=1                                              then pmcoca5=1;
if coca6=1 and
  ( g32ccoc=1 and (crtage > g32bcoc or g32bcoc=1))
  or ( g33ccoc=1 and (crtage > g33bcoc))
  or ( g37ccoc=1 and (crtage > g37bcoc))
  or ( g38ccoc=1 and (crtage > g38bcoc))
  or ( rcusecoc=1 & (crtage > g32bcoc or g32ecoc=1))
  or ( rcusecoc=1 & (crtage > g33bcoc))
  or ( rcusecoc=1 & (crtage > g37bcoc))
  or ( rcusecoc=1 & (crtage > g38bcoc)) then pmcoca6=1;
if g41acoc eq 1 and  g41ccoc=1                      then pmcoca6=1;

```

```

if coca7=1 and g49ccoc=1 then pmcoc7=1;
if coca8=1 and g50ccoc=1 then pmcoc8=1;

if pmcocal=1 then pmcocbl=1;
if pmcoc2=1 and
  ((g42acoc=1) & g42ccoc=1 & (crtage > g42bcoc))
  or ((g43acoc=1) & g43ccoc=1 & (crtage > g43bcoc))
  or ((g44acoc=1) & g44ccoc=1 & (crtage > g44bcoc)) then pmcocb2=1;
if pmcoc3=1 then pmcocb3=1;
if pmcoc4=1 then pmcocb4=1;
if pmcoc5=1 and
  ((g52acoc=1) & g52ccoc=1 & (crtage > g52bcoc)) then pmcocb5=1;
if pmcoc6=1 then pmcocb6=1;
if pmcoc7=1 and
  ((g49acoc=1) & g49ccoc=1 & (crtage > g49bcoc)) then pmcocb7=1;
if pmcoc8=1 and
  ((g50acoc=1) & g50ccoc=1 & (crtage > g50bcoc)) then pmcocb8=1;
pmcocat=sum(of pmcocal-pmcoca8);
pmcocbt=sum(of pmcocbl-pmcocb8);

if pmcocat >= 3 and pmcocbt >= 2 then df1mcoc=1; else df1mcoc=0;

```

\*-----\*  
| HALLUCINOGENS full dependence during past month |  
\*-----\*

```

; if halal=1 and
  g47chal=1 or g48chal=1 then pmhalal=1;
if hala2=1 and
  g42chal=1 or g43chal=1
  or g44chal=1 then pmhala2=1;
if hala3=1 and
  g46chal=1 then pmhala3=1;
if hala4=1 and
  g30chal=1 or g31chal=1
  or g34chal=1 then pmhala4=1;
if hala5=1 and
  g52chal=1 then pmhala5=1;
if hala6=1 and
  ( g32chal=1 and (crtage > g32bhal or g32ehal=1))
  or ( g33chal=1 and (crtage > g33bhal))
  or ( g37chal=1 and (crtage > g37bhal))
  or ( g38chal=1 and (crtage > g38bhal))
  or ( rcusehal=1 & (crtage > g32bhal or g32ehal=1))
  or ( rcusehal=1 & (crtage > g33bhal))
  or ( rcusehal=1 & (crtage > g37bhal))

```

```

        or ( rcusehal=1 & (crtage > g38bhal)) then pmhala6=1;
if g41ahal eq 1 and g41chal=1 then pmhala6=1;

if hala7=1 and g49chal=1 then pmhala7=1;
if hala8=1 and g50chal=1 then pmhala8=1;

if pmhalal=1 then pmhalbl=1;
if pmhala2=1 and
    ((g42ahal=1) & g42chal=1 & (crtage > g42bhal))
    or ((g43ahal=1) & g43chal=1 & (crtage > g43bhal))
    or ((g44ahal=1) & g44chal=1 & (crtage > g44bhal))
        then pmhalb2=1;
if pmhala3=1 then pmhalb3=1;
if pmhala4=1 then pmhalb4=1;
if pmhala5=1 and
    ((g52ahal=1) & g52chal=1 & (crtage > g52bhal))
        then pmhalb5=1;
if pmhala6=1 then pmhalb6=1;
if pmhala7=1 and
    ((g49ahal=1) & g49chal=1 & (crtage > g49bhal))
        then pmhalb7=1;
if pmhala8=1 and
    ((g50ahal=1) & g50chal=1 & (crtage > g50bhal))
        then pmhalb8=1;
pmhalat=sum(of pmhalal-pmhala8);
pmhalbt=sum(of pmhalbl-pmhalb8);

if pmhalat >= 3 and pmhalbt >= 2 then df1mh1=1; else df1mh1=0;

```

\*-----\*  
| HEROIN full dependence during past month |  
\*-----\*

;  
  
if heral=1 and
 g47cher=1 or g48cher=1 then pmheral=1;
if hera2=1 and
 g42cher=1 or g43cher=1
 or g44cher=1 then pmhera2=1;
if hera3=1 and
 g46cher=1 then pmhera3=1;
if hera4=1 and
 g30cher=1 or g31cher=1
 or g34cher=1 then pmhera4=1;
if hera5=1 and
 g52cher=1 then pmhera5=1;
if hera6=1 and
 ( g32cher=1 and (crtage > g32bher or g32eher=1))
 or ( g33cher=1 and (crtage > g33bher))
 or ( g37cher=1 and (crtage > g37bher))
 or ( g38cher=1 and (crtage > g38bher))

```

or ( rcuseher=1 & (crtage > g32bher or g32eher=1))
or ( rcuseher=1 & (crtage > g33bher))
or ( rcuseher=1 & (crtage > g37bher))
or ( rcuseher=1 & (crtage > g38bher)) then pmhera6=1;
if g41aher eq 1 and g41cher=1 then pmhera6=1;

if hera7=1 and g49cher=1 then pmhera7=1;
if hera8=1 and g50cher=1 then pmhera8=1;

if pmheral=1 then pmherbl=1;
if pmhera2=1 and
    ((g42aher=1) & g42cher=1 & (crtage > g42bher))
    or ((g43aher=1) & g43cher=1 & (crtage > g43bher))
    or ((g44aher=1) & g44cher=1 & (crtage > g44bher))
        then pmherb2=1;
if pmhera3=1 then pmherb3=1;
if pmhera4=1 then pmherb4=1;
if pmhera5=1 and
    ((g52aher=1) & g52cher=1 & (crtage > g52bher))
        then pmherb5=1;
if pmhera6=1 then pmherb6=1;
if pmhera7=1 and
    ((g49aher=1) & g49cher=1 & (crtage > g49bher))
        then pmherb7=1;
if pmhera8=1 and
    ((g50aher=1) & g50cher=1 & (crtage > g50bher))
        then pmherb8=1;

pmherat=sum(of pmheral-pmhera8);
pmherbt=sum(of pmherbl-pmherb8);

if pmherat >= 3 and pmherbt >= 2 then df1mher=1; else df1mher=0;

```

```

*****
*
*          Substance Abuse
*
*****
;;

/* 4. DRUG4.SAS

      Create abuse variables for each of 10 drug categories

      AGERxxx:   age most recent USE
      RCUSExxx:  RECENTY OF USE (sed thru heroin);

      ALIFxxx:   abuse LIFETIME criteria met (Y/N)

      ALOAXXX:   abuse LIFETIME ONSET AGE

      APRECxxx:  abuse PROBLEM recency (past month/6months/past yr/yr+)
      APRAGxxx:  abuse PROBLEM most recent age

                  symptom=had problem and continued to use
      ASRECxxx:  abuse SYMPTOM recency (past month/6months/past yr/yr+)
      ASRAGxxx:  abuse SYMPTOM most recent age

      AF1Yxxx:   ABUSE FULL criteria met in past YEAR? (Y/N)
      AF1Mxxx:   ABUSE FULL criteria met in past MONTH? (Y/N)
 */

*****;

*      former codes of 0, . or >= 96 set to 999;

*      age most recent use (AGERxxx) alcohol treated separately;

      if 1 <= g1d <= 3 then agersed=crtage; else agersed=g1f;
      if 1 <= g2d <= 3 then agertrq=crtage; else agertrq=g2f;
      if 1 <= g3d <= 3 then agersti=crtage; else agersti=g3f;
      if 1 <= g4d <= 3 then agerags=crtage; else agerags=g4f;
      if 1 <= g5d <= 3 then agerinh=crtage; else agering=g5f;
      if 1 <= g6d <= 3 then agermar=crtage; else agermar=g6f;
      if 1 <= g7d <= 3 then agercoc=crtage; else agercoc=g7f;
      if 1 <= g8d <= 3 then agerhal=crtage; else agerhal=g8f;
      if 1 <= g9d <= 3 then agerher=crtage; else agerher=g9f;

*      RECENTY OF USE (sed thru heroin);
      rcusesed=g1d; rcusetrq=g2d; rcusesti=g3d;
      rcuseags=g4d; rcuseinh=g5d; rcusemar=g6d;
      rcusecoc=g7d; rcusehal=g8d; rcuseher=g9d;

/* Abuse Criteria

   1. Continued use knowing the negative effects or

```

recurrent use in hazardous situations with duration of one month or more or repeated use for a long period of time.

- YES in any of problems G32a,G33a,G34a,G36a,G37a,G38a,G41a

2. Use of substance is repeated and of long duration (continued use).

There are several ways to meet criterion for continued use. These are listed in (a) thru (d) below:

- (a) Of the 7 problems listed in 1. above, continued use is met automatically by YES at 3 of the 7--
  - G34a (often under effects in risky situations)
  - G36a (continued to use drug after an accident)
  - G41a (continued to use when taking med or health problem)
- (b) 3 of the remaining 4 problems are treated as follows in order to ascertain "continued use" which is not asked directly:

G33 (work/school problems)  
G37 (health problems)  
G38 (emotional/psychological problems)

IF

- (1) Most recent use is within past year and current age is greater age 1st had prob.  
( $Gxxc=1-3$  and current age  $> Gxxb$ )

OR

- (2) Most recent use is more than a year ago and age of recency of problem is larger than age of onset  
( $Gxxc =4$  and  $Gxxd > Gxxb$ )

then criteria for continued use are met.

- (c) The remaining problem is filtered the same as G33,G37,G38 with an additional option for meeting criteria:

G32 (problems with family, friends...police)

If G32e (continued to used)) is YES criteria are met.

- (d) All drugs are filtered by comparing age of most recent use with age of first use as indicated in the beginning of Section G (e.g. for sedatives, Gal,Gld, and Glf are used)).  
This filter is separate from the filtering of the 7 problems.

If recent use is indicated as within past year, and age of first use is less than current age (which in this instance is the same

as age of most recent use) then criterion for "continued use" is met.  
OR

If recent use is "more than a year ago", and age of first use is less than age of most recent use, then the criterion for "continued use" is met.

- (e) Alcohol is treated differently than the other drugs  
see alcohol section

\*/

\*\*\*\*\* ALCOHOL \*\*\*\*\*;

\* Item F11= age first began heavy drinking (V1812);  
\* test problem g32 for continued use;

```
if g32aalc eq 1 and
  ((1 <= g32calc <=3) and (crtage > g32balc))
  or ((g32calc eq 4) and (1 <= db32alc <=54)) then sx32alc=1;
if g32aalc eq 1 and
  ((drk12pyr eq 1) and (crtage > g32balc)) then sx32alc=2;
if g32aalc eq 1 and
  ((drk12pyr eq 0) and (1 <= lb32alc <=54)) then sx32alc=3;
if g32aalc eq 1 and (g32ealc eq 1)           then sx32alc=4;
if 1 <= sx32alc <= 4                         then as32alc=1;
```

\* test problem g33 for continued use;
 if g33aalc eq 1 and
 ((1 <= g33calc <=3) and (crtage > g33balc))
 or ((g33calc eq 4) and (1 <= db33alc <=54)) then sx33alc=1;
 if g33aalc eq 1 and
 ((drk12pyr eq 1) and (crtage > g33balc)) then sx33alc=2;
 if g33aalc eq 1 and
 ((drk12pyr eq 0) and (1 <= lb33alc <=54)) then sx33alc=3;

 if 1 <= sx33alc <= 3 then as33alc=1;

\* problem g34 automatically meets continued use;
 if g34aalc eq 1 then as34alc=1;

\* problem g36 automatically meets continued use;
 if g36aalc eq 1 then as36alc=1;

\* test problem g37 for continued use;
 if g37aalc eq 1 and
 ((1 <= g37calc <=3) and (crtage > g37balc))
 or ((g37calc eq 4) and (1 <= db37alc <=54)) then sx37alc=1;
 if g37aalc eq 1 and
 ((drk12pyr eq 1) and (crtage > g37balc)) then sx37alc=2;
 if g37aalc eq 1 and
 ((drk12pyr eq 0) and (1 <= lb37alc <=54)) then sx37alc=3;

```

if 1 <= sx37alc <= 3                                then as37alc=1;

* test problem g38 for continued use;
if g38aalc eq 1 and
  ((1 <= g38calc <=3) and (crtage > g38balc))
or ((g38calc eq 4) and (1 <= db38alc <=54)) then sx38alc=1;
if g38aalc eq 1 and
  ((drkl2pyr eq 1) and (crtage > g38balc)) then sx38alc=2;
if g38aalc eq 1 and
  ((drkl2pyr eq 0) and (1 <= lb38alc <=54)) then sx38alc=3;
if 1 <= sx38alc <= 3                                then as38alc=1;

* problem g41 automatically meets continued use;
if g41aalc eq 1                                then as41alc=1;

aalctot=sum(as32alc,as33alc,as34alc,as36alc,as37alc,as38alc,as41alc);
if aalctot >= 1 then alifalc=1; else alifalc=0;

***** SEDATIVES *****;

if g32ased eq 1 and
  ((1 <= g32csed <=3) and (crtage > g32bsed))
or ((g32csed eq 4) and (1 <= db32sed <= 54)) then sx32sed=1;
if g32ased eq 1 and
  ((1 <= rcusesed <=3) and (crtage > g32bsed))
or ((rcusesed eq 4) and (1 <= lb32sed <= 54)) then sx32sed=2;
if g32ased eq 1 and (g32esed eq 1)                then sx32sed=3;
if 1 <= sx32sed <= 3                                then as32sed=1;
if g33ased eq 1 and
  ((1 <= g33csed <=3) and (crtage > g33bsed))
or ((g33csed eq 4) and (1 <= db33sed <= 54)) then sx33sed=1;
if g33ased eq 1 and
  ((1 <= rcusesed <=3) and (crtage > g33bsed))
or ((rcusesed eq 4) and (1 <= lb33sed <=54)) then sx33sed=2;
if 1 <= sx33sed <= 2                                then as33sed=1;
if g34ased eq 1                                then as34sed=1;
if g36ased eq 1                                then as36sed=1;
if g37ased eq 1 and
  ((1 <= g37csed <=3) and (crtage > g37bsed))
or ((g37csed eq 4) and (1 <= db37sed <= 54)) then sx37sed=1;
if g37ased eq 1 and
  ((1 <= rcusesed <=3) and (crtage > g37bsed))
or ((rcusesed eq 4) and (1 <= lb37sed <= 54)) then sx37sed=2;
if 1 <= sx37sed <= 2                                then as37sed=1;
if g38ased eq 1 and
  ((1 <= g38csed <=3) and (crtage > g38bsed))

or ((g38csed eq 4) and (1 <= db38sed <= 54)) then sx38sed=1;
if g38ased eq 1 and
  ((1 <= rcusesed <=3) and (crtage > g38bsed))

```

```

        or ((rcusesed eq 4) and (1 <= lb38sed <= 54)) then sx38sed=2;
if 1 <= sx38sed <= 2                                then as38sed=1;
if g4lased eq 1                                     then as4lased=1;

asedtot=sum(as32sed,as33sed,as34sed,as36sed,as37sed,as38sed,as4lsed);
if asedtot ge 1 then alifsed=1; else alifsed=0;

***** TRANQUILIZERS *****;

if g32atrq eq 1 and
  ((1 <= g32ctrq <=3) and (crtage > g32btrq))
or ((g32ctrq eq 4) and (1 <= db32trq <= 54)) then sx32trq=1;
if g32atrq eq 1 and
  ((1 <= rcusetrq <=3) and (crtage > g32btrq))
or ((rcusetrq eq 4) and (1 <= lb32trq <= 54)) then sx32trq=2;
if g32atrq eq 1 and (g32etrq eq 1)                  then sx32trq=3;
if 1 <= sx32trq <= 3                               then as32trq=1;
if g33atrq eq 1 and
  ((1 <= g33ctrq <=3) and (crtage > g33btrq))
or ((g33ctrq eq 4) and (1 <= db33trq <= 54)) then sx33trq=1;
if g33atrq eq 1 and
  ((1 <= rcusetrq <=3) and (crtage > g33btrq))
or ((rcusetrq eq 4) and (1 <= lb33trq <=54)) then sx33trq=2;
if 1 <= sx33trq <= 2                               then as33trq=1;
if g34atrq eq 1                                     then as34trq=1;
if g36atrq eq 1                                     then as36trq=1;
if g37atrq eq 1 and
  ((1 <= g37ctrq <=3) and (crtage > g37btrq))
or ((g37ctrq eq 4) and (1 <= db37trq <= 54)) then sx37trq=1;
if g37atrq eq 1 and
  ((1 <= rcusetrq <=3) and (crtage > g37btrq))
or ((rcusetrq eq 4) and (1 <= lb37trq <= 54)) then sx37trq=2;
if 1 <= sx37trq <= 2                               then as37trq=1;
if g38atrq eq 1 and
  ((1 <= g38ctrq <=3) and (crtage > g38btrq))

or ((g38ctrq eq 4) and (1 <= db38trq <= 54)) then sx38trq=1;
if g38atrq eq 1 and
  ((1 <= rcusetrq <=3) and (crtage > g38btrq))
or ((rcusetrq eq 4) and (1 <= lb38trq <= 54)) then sx38trq=2;
if 1 <= sx38trq <= 2                               then as38trq=1;
if g4latrq eq 1                                     then as4ltrq=1;

atrqtot=sum(as32trq,as33trq,as34trq,as36trq,as37trq,as38trq,as4ltrq);
if atrqtot ge 1 then aliftrq=1; else aliftrq=0;

***** STIMULANTS *****;

if g32asti eq 1 and
  ((1 <= g32csti <=3) and (crtage > g32bsti))

```

```

        or ((g32csti eq 4) and (1 <= db32sti <= 54)) then sx32sti=1;
if g32asti eq 1 and
    ((1 <= rcusesti <=3) and (crtage > g32bsti))
or ((rcusesti eq 4) and (1 <= lb32sti <= 54)) then sx32sti=2;
if g32asti eq 1 and (g32esti eq 1) then sx32sti=3;
if 1 <= sx32sti <= 3 then as32sti=1;
if g33asti eq 1 and
    ((1 <= g33csti <=3) and (crtage > g33bsti))
or ((g33csti eq 4) and (1 <= db33sti <= 54)) then sx33sti=1;
if g33asti eq 1 and
    ((1 <= rcusesti <=3) and (crtage > g33bsti))
or ((rcusesti eq 4) and (1 <= lb33sti <=54)) then sx33sti=2;
if 1 <= sx33sti <= 2 then as33sti=1;
if g34asti eq 1 then as34sti=1;
if g36asti eq 1 then as36sti=1;
if g37asti eq 1 and
    ((1 <= g37csti <=3) and (crtage > g37bsti))
or ((g37csti eq 4) and (1 <= db37sti <= 54)) then sx37sti=1;
if g37asti eq 1 and
    ((1 <= rcusesti <=3) and (crtage > g37bsti))
or ((rcusesti eq 4) and (1 <= lb37sti <= 54)) then sx37sti=2;
if 1 <= sx37sti <= 2 then as37sti=1;
if g38asti eq 1 and
    ((1 <= g38csti <=3) and (crtage > g38bsti))

or ((g38csti eq 4) and (1 <= db38sti <= 54)) then sx38sti=1;
if g38asti eq 1 and
    ((1 <= rcusesti <=3) and (crtage > g38bsti))
or ((rcusesti eq 4) and (1 <= lb38sti <= 54)) then sx38sti=2;
if 1 <= sx38sti <= 2 then as38sti=1;
if g41asti eq 1 then as41sti=1;

astitot=sum(as32sti,as33sti,as34sti,as36sti,as37sti,as38sti,as41sti);
if astitot ge 1 then alifsti=1; else alifsti=0;

```

\*\*\*\*\* ANALGESICS \*\*\*\*\*;

```

if g32aags eq 1 and
    ((1 <= g32cags <=3) and (crtage > g32bags))
or ((g32cags eq 4) and (1 <= db32ags <= 54)) then sx32ags=1;
if g32aags eq 1 and
    ((1 <= rcuseags <=3) and (crtage > g32bags))
or ((rcuseags eq 4) and (1 <= lb32ags <= 54)) then sx32ags=2;
if g32aags eq 1 and (g32eags eq 1) then sx32ags=3;
if 1 <= sx32ags <= 3 then as32ags=1;
if g33aags eq 1 and
    ((1 <= g33cags <=3) and (crtage > g33bags))
or ((g33cags eq 4) and (1 <= db33ags <= 54)) then sx33ags=1;
if g33aags eq 1 and
    ((1 <= rcuseags <=3) and (crtage > g33bags))
or ((rcuseags eq 4) and (1 <= lb33ags <=54)) then sx33ags=2;

```

```

if 1 <= sx33ags <= 2                                then as33ags=1;
if g34aags eq 1                                     then as34ags=1;
if g36aags eq 1                                     then as36ags=1;
if g37aags eq 1 and
    ((1 <= g37cags <=3) and (crtage > g37bags))
    or ((g37cags eq 4) and (1 <= db37ags <= 54))  then sx37ags=1;
if g37aags eq 1 and
    ((1 <= rcuseags <=3) and (crtage > g37bags))
    or ((rcuseags eq 4) and (1 <= lb37ags <= 54)) then sx37ags=2;
if 1 <= sx37ags <= 2                               then as37ags=1;
if g38aags eq 1 and
    ((1 <= g38cags <=3) and (crtage > g38bags))

    or ((g38cags eq 4) and (1 <= db38ags <= 54))  then sx38ags=1;
if g38aags eq 1 and
    ((1 <= rcuseags <=3) and (crtage > g38bags))
    or ((rcuseags eq 4) and (1 <= lb38ags <= 54)) then sx38ags=2;
if 1 <= sx38ags <= 2                               then as38ags=1;
if g41aags eq 1                                     then as41ags=1;

aagstot=sum(as32ags,as33ags,as34ags,as36ags,as37ags,as38ags,as41ags);
if aagstot ge 1 then alifags=1; else alifags=0;

```

\*\*\*\*\* INHALANTS \*\*\*\*\*;

```

if g32ainh eq 1 and
    ((1 <= g32cinh <=3) and (crtage > g32binh))
    or ((g32cinh eq 4) and (1 <= db32inh <= 54))  then sx32inh=1;
if g32ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g32binh))
    or ((rcuseinh eq 4) and (1 <= lb32inh <= 54)) then sx32inh=2;
if g32ainh eq 1 and (g32einh eq 1)                  then sx32inh=3;
if 1 <= sx32inh <= 3                               then as32inh=1;
if g33ainh eq 1 and
    ((1 <= g33cinh <=3) and (crtage > g33binh))
    or ((g33cinh eq 4) and (1 <= db33inh <= 54))  then sx33inh=1;
if g33ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g33binh))
    or ((rcuseinh eq 4) and (1 <= lb33inh <=54))  then sx33inh=2;
if 1 <= sx33inh <= 2                               then as33inh=1;
if g34ainh eq 1                                     then as34inh=1;
if g36ainh eq 1                                     then as36inh=1;
if g37ainh eq 1 and
    ((1 <= g37cinh <=3) and (crtage > g37binh))
    or ((g37cinh eq 4) and (1 <= db37inh <= 54))  then sx37inh=1;
if g37ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g37binh))
    or ((rcuseinh eq 4) and (1 <= lb37inh <= 54)) then sx37inh=2;
if 1 <= sx37inh <= 2                               then as37inh=1;
if g38ainh eq 1 and
    ((1 <= g38cinh <=3) and (crtage > g38binh))

```

```

        or ((g38cinh eq 4) and (1 <= db38inh <= 54)) then sx38inh=1;
if g38ainh eq 1 and
    ((1 <= rcuseinh <=3) and (crtage > g38bihn))
or ((rcuseinh eq 4) and (1 <= lb38inh <= 54)) then sx38inh=2;
if 1 <= sx38inh <= 2
    then as38inh=1;
if g41ainh eq 1
    then as41inh=1;

ainhtot=sum(as32inh,as33inh,as34inh,as36inh,as37inh,as38inh,as41inh);
if ainhtot ge 1 then alifinh=1; else alifinh=0;

***** MARIJUANA *****;

if g32amar eq 1 and
    ((1 <= g32cmar <=3) and (crtage > g32bmar))
or ((g32cmar eq 4) and (1 <= db32mar <= 54)) then sx32mar=1;
if g32amar eq 1 and
    ((1 <= rcusemar <=3) and (crtage > g32bmar))
or ((rcusemar eq 4) and (1 <= lb32mar <= 54)) then sx32mar=2;
if g32amar eq 1 and (g32emar eq 1)
    then sx32mar=3;
if 1 <= sx32mar <= 3
    then as32mar=1;
if g33amar eq 1 and
    ((1 <= g33cmar <=3) and (crtage > g33bmar))
or ((g33cmar eq 4) and (1 <= db33mar <= 54)) then sx33mar=1;
if g33amar eq 1 and
    ((1 <= rcusemar <=3) and (crtage > g33bmar))
or ((rcusemar eq 4) and (1 <= lb33mar <=54)) then sx33mar=2;
if 1 <= sx33mar <= 2
    then as33mar=1;
if g34amar eq 1
    then as34mar=1;
if g36amar eq 1
    then as36mar=1;
if g37amar eq 1 and
    ((1 <= g37cmar <=3) and (crtage > g37bmar))
or ((g37cmar eq 4) and (1 <= db37mar <= 54)) then sx37mar=1;
if g37amar eq 1 and
    ((1 <= rcusemar <=3) and (crtage > g37bmar))
or ((rcusemar eq 4) and (1 <= lb37mar <= 54)) then sx37mar=2;
if 1 <= sx37mar <= 2
    then as37mar=1;
if g38amar eq 1 and
    ((1 <= g38cmar <=3) and (crtage > g38bmar))

    or ((g38cmar eq 4) and (1 <= db38mar <= 54)) then sx38mar=1;
if g38amar eq 1 and
    ((1 <= rcusemar <=3) and (crtage > g38bmar))
    or ((rcusemar eq 4) and (1 <= lb38mar <= 54)) then sx38mar=2;
if 1 <= sx38mar <= 2
    then as38mar=1;
if g41amar eq 1
    then as41mar=1;

amartot=sum(as32mar,as33mar,as34mar,as36mar,as37mar,as38mar,as41mar);
if amartot ge 1 then alifmar=1; else alifmar=0;

```

```

***** COCAINE *****;

if g32acoc eq 1 and
  ((1 <= g32ccoc <=3) and (crtage > g32bcoc))
  or ((g32ccoc eq 4) and (1 <= db32coc <= 54)) then sx32coc=1;
if g32acoc eq 1 and
  ((1 <= rcusecoc <=3) and (crtage > g32bcoc))
  or ((rcusecoc eq 4) and (1 <= lb32coc <= 54)) then sx32coc=2;
if g32acoc eq 1 and (g32ecoc eq 1) then sx32coc=3;
if 1 <= sx32coc <= 3 then as32coc=1;
if g33acoc eq 1 and
  ((1 <= g33ccoc <=3) and (crtage > g33bcoc))
  or ((g33ccoc eq 4) and (1 <= db33coc <= 54)) then sx33coc=1;
if g33acoc eq 1 and
  ((1 <= rcusecoc <=3) and (crtage > g33bcoc))
  or ((rcusecoc eq 4) and (1 <= lb33coc <=54)) then sx33coc=2;
if 1 <= sx33coc <= 2 then as33coc=1;
if g34acoc eq 1 then as34coc=1;
if g36acoc eq 1 then as36coc=1;
if g37acoc eq 1 and
  ((1 <= g37ccoc <=3) and (crtage > g37bcoc))
  or ((g37ccoc eq 4) and (1 <= db37coc <= 54)) then sx37coc=1;
if g37acoc eq 1 and
  ((1 <= rcusecoc <=3) and (crtage > g37bcoc))
  or ((rcusecoc eq 4) and (1 <= lb37coc <= 54)) then sx37coc=2;
if 1 <= sx37coc <= 2 then as37coc=1;
if g38acoc eq 1 and
  ((1 <= g38ccoc <=3) and (crtage > g38bcoc))

  or ((g38ccoc eq 4) and (1 <= db38coc <= 54)) then sx38coc=1;
if g38acoc eq 1 and
  ((1 <= rcusecoc <=3) and (crtage > g38bcoc))
  or ((rcusecoc eq 4) and (1 <= lb38coc <= 54)) then sx38coc=2;
if 1 <= sx38coc <= 2 then as38coc=1;
if g41acoc eq 1 then as41coc=1;

acoctot=sum(as32coc,as33coc,as34coc,as36coc,as37coc,as38coc,as41coc);
  if acoctot ge 1 then alifcoc=1; else alifcoc=0;

```

\*\*\*\*\* HALLUCINOGENS \*\*\*\*\*;

```

if g32ahal eq 1 and
  ((1 <= g32chal <=3) and (crtage > g32bhal))
  or ((g32chal eq 4) and (1 <= db32hal <= 54)) then sx32hal=1;
if g32ahal eq 1 and
  ((1 <= rcusehal <=3) and (crtage > g32bhal))
  or ((rcusehal eq 4) and (1 <= lb32hal <= 54)) then sx32hal=2;
if g32ahal eq 1 and (g32ehal eq 1) then sx32hal=3;
if 1 <= sx32hal <= 3 then as32hal=1;
if g33ahal eq 1 and
  ((1 <= g33chal <=3) and (crtage > g33bhal))

```

```

        or ((g33chal eq 4) and (1 <= db33hal <= 54)) then sx33hal=1;
if g33ahal eq 1 and
    ((1 <= rcusehal <=3) and (crtage > g33bhal))
or ((rcusehal eq 4) and (1 <= lb33hal <=54)) then sx33hal=2;
if 1 <= sx33hal <= 2                                then as33hal=1;
if g34ahal eq 1                                     then as34hal=1;
if g36ahal eq 1                                     then as36hal=1;
if g37ahal eq 1 and
    ((1 <= g37chal <=3) and (crtage > g37bhal))
or ((g37chal eq 4) and (1 <= db37hal <= 54)) then sx37hal=1;
if g37ahal eq 1 and
    ((1 <= rcusehal <=3) and (crtage > g37bhal))
or ((rcusehal eq 4) and (1 <= lb37hal <= 54)) then sx37hal=2;
if 1 <= sx37hal <= 2                                then as37hal=1;
if g38ahal eq 1 and
    ((1 <= g38chal <=3) and (crtage > g38bhal))

or ((g38chal eq 4) and (1 <= db38hal <= 54)) then sx38hal=1;
if g38ahal eq 1 and
    ((1 <= rcusehal <=3) and (crtage > g38bhal))
or ((rcusehal eq 4) and (1 <= lb38hal <= 54)) then sx38hal=2;
if 1 <= sx38hal <= 2                                then as38hal=1;
if g41ahal eq 1                                     then as41hal=1;

ahaltot=sum(as32hal,as33hal,as34hal,as36hal,as37hal,as38hal,as41hal);
if ahaltot ge 1 then alifhal=1; else alifhal=0;

```

\*\*\*\*\* HEROIN \*\*\*\*\*;

```

if g32aher eq 1 and
    ((1 <= g32cher <=3) and (crtage > g32bher))
or ((g32cher eq 4) and (1 <= db32her <= 54)) then sx32her=1;
if g32aher eq 1 and
    ((1 <= rcuseher <=3) and (crtage > g32bher))
or ((rcuseher eq 4) and (1 <= lb32her <= 54)) then sx32her=2;
if g32aher eq 1 and (g32eher eq 1)                  then sx32her=3;
if 1 <= sx32her <= 3                                then as32her=1;
if g33aher eq 1 and
    ((1 <= g33cher <=3) and (crtage > g33bher))
or ((g33cher eq 4) and (1 <= db33her <= 54)) then sx33her=1;
if g33aher eq 1 and
    ((1 <= rcuseher <=3) and (crtage > g33bher))
or ((rcuseher eq 4) and (1 <= lb33her <=54)) then sx33her=2;
if 1 <= sx33her <= 2                                then as33her=1;
if g34aher eq 1                                     then as34her=1;
if g36aher eq 1                                     then as36her=1;
if g37aher eq 1 and
    ((1 <= g37cher <=3) and (crtage > g37bher))
or ((g37cher eq 4) and (1 <= db37her <= 54)) then sx37her=1;
if g37aher eq 1 and
    ((1 <= rcuseher <=3) and (crtage > g37bher))

```

```

        or ((rcuseher eq 4) and (1 <= lb37her <= 54)) then sx37her=2;
if 1 <= sx37her <= 2                                then as37her=1;
if g38aher eq 1 and
    ((1 <= g38cher <=3) and (crtage > g38bher))

        or ((g38cher eq 4) and (1 <= db38her <= 54)) then sx38her=1;
if g38aher eq 1 and
    ((1 <= rcuseher <=3) and (crtage > g38bher))
        or ((rcuseher eq 4) and (1 <= lb38her <= 54)) then sx38her=2;
if 1 <= sx38her <= 2                                then as38her=1;
if g41aher eq 1                                     then as41her=1;

ahertot=sum(as32her,as33her,as34her,as36her,as37her,as38her,as41her);
if ahertot ge 1 then alifher=1; else alifher=0;

*-----*
|          ABUSE LIFETIME ONSET AGE (ALOAxxxx)
|
*-----*;

```

\* Select minimum age only from among items which met criteria;  
 \* (Using minimum Gxxb);

```

if as32alc eq 1 then g32alcoa=g32balc; else g32alcoa=999;
if as33alc eq 1 then g33alcoa=g33balc; else g33alcoa=999;
if as34alc eq 1 then g34alcoa=g34balc; else g34alcoa=999;
if as36alc eq 1 then g36alcoa=g36balc; else g36alcoa=999;
if as37alc eq 1 then g37alcoa=g37balc; else g37alcoa=999;
if as38alc eq 1 then g38alcoa=g38balc; else g38alcoa=999;
if as41alc eq 1 then g41alcoa=g41balc; else g41alcoa=999;

aloaalc=min(g32alcoa,g33alcoa,g34alcoa,g36alcoa,g37alcoa,g38alcoa,g41alcoa);
if aloaalc=999 then aloaalc=.;
if as32sed eq 1 then g32sedoa=g32bsed; else g32sedoa=999;
if as33sed eq 1 then g33sedoa=g33bsed; else g33sedoa=999;
if as34sed eq 1 then g34sedoa=g34bsed; else g34sedoa=999;
if as36sed eq 1 then g36sedoa=g36bsed; else g36sedoa=999;
if as37sed eq 1 then g37sedoa=g37bsed; else g37sedoa=999;
if as38sed eq 1 then g38sedoa=g38bsed; else g38sedoa=999;
if as41sed eq 1 then g41sedoa=g41bsed; else g41sedoa=999;

aloased=min(g32sedoa,g33sedoa,g34sedoa,g36sedoa,g37sedoa,g38sedoa,g41sedoa);
if aloased=999 then aloased=.;
if as32trq eq 1 then g32trqoa=g32btrq; else g32trqoa=999;
if as33trq eq 1 then g33trqoa=g33btrq; else g33trqoa=999;
if as34trq eq 1 then g34trqoa=g34btrq; else g34trqoa=999;
if as36trq eq 1 then g36trqoa=g36btrq; else g36trqoa=999;
if as37trq eq 1 then g37trqoa=g37btrq; else g37trqoa=999;
if as38trq eq 1 then g38trqoa=g38btrq; else g38trqoa=999;
if as41trq eq 1 then g41trqoa=g41btrq; else g41trqoa=999;

aloatrq=min(g32trqoa,g33trqoa,g34trqoa,g36trqoa,g37trqoa,g38trqoa,g41trqoa);

```

```

        if aloatrq=999 then aloatrq=.;
if as32sti eq 1 then g32stioa=g32bsti; else g32stioa=999;
if as33sti eq 1 then g33stioa=g33bsti; else g33stioa=999;
if as34sti eq 1 then g34stioa=g34bsti; else g34stioa=999;
if as36sti eq 1 then g36stioa=g36bsti; else g36stioa=999;
if as37sti eq 1 then g37stioa=g37bsti; else g37stioa=999;
if as38sti eq 1 then g38stioa=g38bsti; else g38stioa=999;
if as41sti eq 1 then g41stioa=g41bsti; else g41stioa=999;

aloasti=min(g32stioa,g33stioa,g34stioa,g36stioa,g37stioa,g38stioa,g41stioa);
        if aloasti=999 then aloasti=.;
if as32ags eq 1 then g32agsoa=g32bags; else g32agsoa=999;
if as33ags eq 1 then g33agsoa=g33bags; else g33agsoa=999;
if as34ags eq 1 then g34agsoa=g34bags; else g34agsoa=999;
if as36ags eq 1 then g36agsoa=g36bags; else g36agsoa=999;
if as37ags eq 1 then g37agsoa=g37bags; else g37agsoa=999;
if as38ags eq 1 then g38agsoa=g38bags; else g38agsoa=999;
if as41ags eq 1 then g41agsoa=g41bags; else g41agsoa=999;

aloaags=min(g32agsoa,g33agsoa,g34agsoa,g36agsoa,g37agsoa,g38agsoa,g41agsoa);
        if aloaags=999 then aloaags=.;
if as32inh eq 1 then g32inhoa=g32binh; else g32inhoa=999;
if as33inh eq 1 then g33inhoa=g33binh; else g33inhoa=999;
if as34inh eq 1 then g34inhoa=g34binh; else g34inhoa=999;
if as36inh eq 1 then g36inhoa=g36binh; else g36inhoa=999;
if as37inh eq 1 then g37inhoa=g37binh; else g37inhoa=999;
if as38inh eq 1 then g38inhoa=g38binh; else g38inhoa=999;
if as41inh eq 1 then g41inhoa=g41binh; else g41inhoa=999;

aloainh=min(g32inhoa,g33inhoa,g34inhoa,g36inhoa,g37inhoa,g38inhoa,g41inhoa);
        if aloainh=999 then aloainh=.;
if as32mar eq 1 then g32maroa=g32bmar; else g32maroa=999;
if as33mar eq 1 then g33maroa=g33bmar; else g33maroa=999;
if as34mar eq 1 then g34maroa=g34bmar; else g34maroa=999;
if as36mar eq 1 then g36maroa=g36bmar; else g36maroa=999;
if as37mar eq 1 then g37maroa=g37bmar; else g37maroa=999;
if as38mar eq 1 then g38maroa=g38bmar; else g38maroa=999;
if as41mar eq 1 then g41maroa=g41bmar; else g41maroa=999;

aloamar=min(g32maroa,g33maroa,g34maroa,g36maroa,g37maroa,g38maroa,g41maroa);
        if aloamar=999 then aloamar=.;
if as32coc eq 1 then g32cocoa=g32bcoc; else g32cocoa=999;
if as33coc eq 1 then g33cocoa=g33bcoc; else g33cocoa=999;
if as34coc eq 1 then g34cocoa=g34bcoc; else g34cocoa=999;
if as36coc eq 1 then g36cocoa=g36bcoc; else g36cocoa=999;
if as37coc eq 1 then g37cocoa=g37bcoc; else g37cocoa=999;
if as38coc eq 1 then g38cocoa=g38bcoc; else g38cocoa=999;
if as41coc eq 1 then g41cocoa=g41bcoc; else g41cocoa=999;

aloacoc=min(g32cocoa,g33cocoa,g34cocoa,g36cocoa,g37cocoa,g38cocoa,g41cocoa);
        if aloacoc=999 then aloacoc=.;
if as32hal eq 1 then g32haloa=g32bhal; else g32haloa=999;

```

```

if as33hal eq 1 then g33haloa=g33bhal; else g33haloa=999;
if as34hal eq 1 then g34haloa=g34bhal; else g34haloa=999;
if as36hal eq 1 then g36haloa=g36bhal; else g36haloa=999;
if as37hal eq 1 then g37haloa=g37bhal; else g37haloa=999;
if as38hal eq 1 then g38haloa=g38bhal; else g38haloa=999;
if as41hal eq 1 then g41haloa=g41bhal; else g41haloa=999;

aloahal=min(g32haloa,g33haloa,g34haloa,g36haloa,g37haloa,g38haloa,g41haloa);
    if aloahal=999 then aloahal=.;
if as32her eq 1 then g32heroa=g32bher; else g32heroa=999;
if as33her eq 1 then g33heroa=g33bher; else g33heroa=999;
if as34her eq 1 then g34heroa=g34bher; else g34heroa=999;
if as36her eq 1 then g36heroa=g36bher; else g36heroa=999;
if as37her eq 1 then g37heroa=g37bher; else g37heroa=999;
if as38her eq 1 then g38heroa=g38bher; else g38heroa=999;
if as41her eq 1 then g41heroa=g41bher; else g41heroa=999;

aloaher=min(g32heroa,g33heroa,g34heroa,g36heroa,g37heroa,g38heroa,g41heroa);
    if aloaher=999 then aloaher=.;

```

\*-----\*

ABUSE PROBLEM, RECENTY (APRECxxx)

1=past month 2=past 6 months  
 3=past year 4=more than a year;

(MINIMUM OF VALID CODES 1-4)

(problem only, continued use not considered)

\*-----\*,

```

array missf(*) g32calc g33calc g34calc g37calc g38calc g41calc
    g32csed g33csed g34csed g37csed g38csed g41csed
    g32ctrq g33ctrq g34ctrq g37ctrq g38ctrq g41ctrq
    g32csti g33csti g34csti g37csti g38csti g41csti
    g32cags g33cags g34cags g37cags g38cags g41cags
    g32cinh g33cinh g34cinh g37cinh g38cinh g41cinh
    g32cmar g33cmar g34cmar g37cmar g38cmar g41cmar
    g32ccoc g33ccoc g34ccoc g37ccoc g38ccoc g41ccoc
    g32chal g33chal g34chal g37chal g38chal g41chal
    g32cher g33cher g34cher g37cher g38cher g41cher;
do i=1 to dim(missf);
    if missf(i)>= 8 or missf(i)=. or missf(i)=0 then missf(i)=9;
end;
drop i;
aprecalc=min(g32calc,g33calc,g34calc,g37calc,g38calc,g41calc);
aprecsed=min(g32csed,g33csed,g34csed,g37csed,g38csed,g41csed);
aprecctrq=min(g32ctrq,g33ctrq,g34ctrq,g37ctrq,g38ctrq,g41ctrq);
apreccesti=min(g32csti,g33csti,g34csti,g37csti,g38csti,g41csti);
apreccags=min(g32cags,g33cags,g34cags,g37cags,g38cags,g41cags);
aprecinh=min(g32cinh,g33cinh,g34cinh,g37cinh,g38cinh,g41cinh);
apreccmar=min(g32cmar,g33cmar,g34cmar,g37cmar,g38cmar,g41cmar);
aprecccoc=min(g32ccoc,g33ccoc,g34ccoc,g37ccoc,g38ccoc,g41ccoc);
aprechchal=min(g32chal,g33chal,g34chal,g37chal,g38chal,g41chal);
aprecher=min(g32cher,g33cher,g34cher,g37cher,g38cher,g41cher);

```

```

*-----*
      ABUSE PROBLEM RECENCY AGE  (APRAGxxx)
      maximum of valid age codes 1-55
      missing ages set to . which is smaller than valid ages
*-----*;

array missn(*) g32dalc g33dalc g34dalc g37dalc g38dalc g41dalc
      g32dsed g33dsed g34dsed g37dsed g38dsed g41dsed
      g32dtrq g33dtrq g34dtrq g37dtrq g38dtrq g41dtrq
      g32dsti g33dsti g34dsti g37dsti g38dsti g41dsti
      g32dags g33dags g34dags g37dags g38dags g41dags
      g32dinh g33dinh g34dinh g37dinh g38dinh g41dinh
      g32dmars g33dmars g34dmars g37dmars g38dmars g41dmars
      g32dcoc g33dcoc g34dcoc g37dcoc g38dcoc g41dcoc
      g32dhal g33dhal g34dhal g37dhal g38dhal g41dhal
      g32dher g33dher g34dher g37dher g38dher g41dher;
do i=1 to dim(missn);
  if missn(i)= 999 then missn(i)=. ;
end;
drop i;
if aprecalc eq 4 then

apragalc=max(g32dalc,g33dalc,g34dalc,g37dalc,g38dalc,g41dalc);
  if 1 <= aprecalc <=3 then apragalc=crtage;
  if aprecsed eq 4 then

apragsed=max(g32dsed,g33dsed,g34dsed,g37dsed,g38dsed,g41dsed);
  if aprectrq eq 4 then

apragtrq=max(g32dtrq,g33dtrq,g34dtrq,g37dtrq,g38dtrq,g41dtrq);
  if 1 <= aprectrq <=3 then apragtrq=crtage;
  if aprecsti eq 4 then

apragsti=max(g32dsti,g33dsti,g34dsti,g37dsti,g38dsti,g41dsti);
  if 1 <= aprecsti <=3 then apragsti=crtage;
  if aprecags eq 4 then

apragsags=max(g32dags,g33dags,g34dags,g37dags,g38dags,g41dags);
  if 1 <= aprecags <=3 then apragsags=crtage;
  if aprecinh eq 4 then

apraginh=max(g32dinh,g33dinh,g34dinh,g37dinh,g38dinh,g41dinh);
  if 1 <= aprecinh <=3 then apraginh=crtage;
  if aprecmar eq 4 then

apragmar=max(g32dmars,g33dmars,g34dmars,g37dmars,g38dmars,g41dmars);
  if 1 <= aprecmar <=3 then apragmar=crtage;
  if aprecoc eq 4 then

apragcoc=max(g32dcoc,g33dcoc,g34dcoc,g37dcoc,g38dcoc,g41dcoc);
  if 1 <= aprecoc <=3 then apragcoc=crtage;

```

```

if aprechal eq 4 then

apraghan=max(g32dhal,g33dhal,g34dhal,g37dhal,g38dhal,g4ldhal);
  if 1 <= aprechal <=3 then apraghan=crtage;
  if aprecher eq 4 then

apragher=max(g32dher,g33dher,g34dher,g37dher,g38dher,g4ldher);
  if 1 <= aprecher <=3 then apragher=crtage;
/* note: non-valid ages in 'd' are now set to . */

*-----*
| ABUSE SYMPTOM RECENTY (ASRECxxx) (had problem with continueduse)
| (recency not available for problem 36)
|   select min recency only from among valid symptoms
|
*-----*;

if as32alc=1 then asr32alc=g32calc;
if as33alc=1 then asr33alc=g33calc;
if as34alc=1 then asr34alc=g34calc;
if as37alc=1 then asr37alc=g37calc;
if as38alc=1 then asr38alc=g38calc;
if as41alc=1 then asr41alc=g41calc;

asrecalc=min(asr32alc,asr33alc,asr34alc,asr37alc,asr38alc,asr41alc);
  if as32sed=1 then asr32sed=g32csed;
  if as33sed=1 then asr33sed=g33csed;
  if as34sed=1 then asr34sed=g34csed;
  if as37sed=1 then asr37sed=g37csed;
  if as38sed=1 then asr38sed=g38csed;
  if as41sed=1 then asr41sed=g41csed;

asrecsed=min(asr32sed,asr33sed,asr34sed,asr37sed,asr38sed,asr41sed);
  if as32trq=1 then asr32trq=g32ctrq;
  if as33trq=1 then asr33trq=g33ctrq;
  if as34trq=1 then asr34trq=g34ctrq;
  if as37trq=1 then asr37trq=g37ctrq;
  if as38trq=1 then asr38trq=g38ctrq;
  if as41trq=1 then asr41trq=g41ctrq;

asrectrq=min(asr32trq,asr33trq,asr34trq,asr37trq,asr38trq,asr41trq);
  if as32sti=1 then asr32sti=g32csti;
  if as33sti=1 then asr33sti=g33csti;
  if as34sti=1 then asr34sti=g34csti;
  if as37sti=1 then asr37sti=g37csti;
  if as38sti=1 then asr38sti=g38csti;
  if as41sti=1 then asr41sti=g41csti;

asrecsti=min(asr32sti,asr33sti,asr34sti,asr37sti,asr38sti,asr41sti);
  if as32ags=1 then asr32ags=g32cags;
  if as33ags=1 then asr33ags=g33cags;

```

```

if as34ags=1 then asr34ags=g34cags;
if as37ags=1 then asr37ags=g37cags;
if as38ags=1 then asr38ags=g38cags;
if as41ags=1 then asr41ags=g41cags;

asrecags=min(asr32ags,asr33ags,asr34ags,asr37ags,asr38ags,asr41ags);
if as32inh=1 then asr32inh=g32cinh;
if as33inh=1 then asr33inh=g33cinh;
if as34inh=1 then asr34inh=g34cinh;
if as37inh=1 then asr37inh=g37cinh;
if as38inh=1 then asr38inh=g38cinh;
if as41inh=1 then asr41inh=g41cinh;

asrecinh=min(asr32inh,asr33inh,asr34inh,asr37inh,asr38inh,asr41inh);
if as32mar=1 then asr32mar=g32cmar;
if as33mar=1 then asr33mar=g33cmar;
if as34mar=1 then asr34mar=g34cmar;
if as37mar=1 then asr37mar=g37cmar;
if as38mar=1 then asr38mar=g38cmar;
if as41mar=1 then asr41mar=g41cmar;

asrecmar=min(asr32mar,asr33mar,asr34mar,asr37mar,asr38mar,asr41mar);
if as32coc=1 then asr32coc=g32ccoc;
if as33coc=1 then asr33coc=g33ccoc;
if as34coc=1 then asr34coc=g34ccoc;
if as37coc=1 then asr37coc=g37ccoc;
if as38coc=1 then asr38coc=g38ccoc;
if as41coc=1 then asr41coc=g41ccoc;

asreccoc=min(asr32coc,asr33coc,asr34coc,asr37coc,asr38coc,asr41coc);
if as32hal=1 then asr32hal=g32chal;
if as33hal=1 then asr33hal=g33chal;
if as34hal=1 then asr34hal=g34chal;
if as37hal=1 then asr37hal=g37chal;
if as38hal=1 then asr38hal=g38chal;
if as41hal=1 then asr41hal=g41chal;

asrechal=min(asr32hal,asr33hal,asr34hal,asr37hal,asr38hal,asr41hal);
if as32her=1 then asr32her=g32cher;
if as33her=1 then asr33her=g33cher;
if as34her=1 then asr34her=g34cher;
if as37her=1 then asr37her=g37cher;
if as38her=1 then asr38her=g38cher;
if as41her=1 then asr41her=g41cher;

asrecher=min(asr32her,asr33her,asr34her,asr37her,asr38her,asr41her);

```

```

*-----*
      ABUSE SYMPTOM RECENTY AGE  (ASRAGxxx)
      maximum of valid age codes 1-55
      selecting only from symptoms rather than from problems
      (asa= abuse symptom age for a specific item #)

*-----*;

if as32alc=1 then asa32alc=g32dalc;
if as33alc=1 then asa33alc=g33dalc;
if as34alc=1 then asa34alc=g34dalc;
if as37alc=1 then asa37alc=g37dalc;
if as38alc=1 then asa38alc=g38dalc;
if as41alc=1 then asa41alc=g41dalc;
if asrecalc eq 4 then

asragalc=max(as32alc,asa33alc,asa34alc,asa37alc,asa38alc,asa41alc);
  if 1 <= asrecalc <=3 then asragalc=crtage;

if as32sed=1 then asa32sed=g32dsed;
if as33sed=1 then asa33sed=g33dsed;
if as34sed=1 then asa34sed=g34dsed;
if as37sed=1 then asa37sed=g37dsed;
if as38sed=1 then asa38sed=g38dsed;
if as41sed=1 then asa41sed=g41dsed;
if asrecsed eq 4 then

asragsed=max(as32sed,asa33sed,asa34sed,asa37sed,asa38sed,asa41sed);
  if 1 <= asrecsed <=3 then asragsed=crtage;

if as32trq=1 then asa32trq=g32dtrq;
if as33trq=1 then asa33trq=g33dtrq;
if as34trq=1 then asa34trq=g34dtrq;
if as37trq=1 then asa37trq=g37dtrq;
if as38trq=1 then asa38trq=g38dtrq;
if as41trq=1 then asa41trq=g41dtrq;
if asrectrq eq 4 then

asragtrq=max(as32trq,asa33trq,asa34trq,asa37trq,asa38trq,asa41trq);
  if 1 <= asrectrq <=3 then asragtrq=crtage;

if as32sti=1 then asa32sti=g32dsti;
if as33sti=1 then asa33sti=g33dsti;
if as34sti=1 then asa34sti=g34dsti;
if as37sti=1 then asa37sti=g37dsti;
if as38sti=1 then asa38sti=g38dsti;
if as41sti=1 then asa41sti=g41dsti;
if asrecsti eq 4 then

asragsti=max(as32sti,asa33sti,asa34sti,asa37sti,asa38sti,asa41sti);
  if 1 <= asrecsti <=3 then asragsti=crtage;

```

```

if as32ags=1 then asa32ags=g32dags;
if as33ags=1 then asa33ags=g33dags;
if as34ags=1 then asa34ags=g34dags;
if as37ags=1 then asa37ags=g37dags;
if as38ags=1 then asa38ags=g38dags;
if as41ags=1 then asa41ags=g41dags;
if asrecags eq 4 then

asragags=max(asaa32ags,asa33ags,asa34ags,asa37ags,asa38ags,asa41ags);
if 1 <= asrecags <=3 then asragags=crtage;

if as32inh=1 then asa32inh=g32dinh;
if as33inh=1 then asa33inh=g33dinh;
if as34inh=1 then asa34inh=g34dinh;
if as37inh=1 then asa37inh=g37dinh;
if as38inh=1 then asa38inh=g38dinh;
if as41inh=1 then asa41inh=g41dinh;
if asrecinh eq 4 then

asraginh=max(asaa32inh,asa33inh,asa34inh,asa37inh,asa38inh,asa41inh);
if 1 <= asrecinh <=3 then asraginh=crtage;

if as32mar=1 then asa32mar=g32dmar;
if as33mar=1 then asa33mar=g33dmar;
if as34mar=1 then asa34mar=g34dmar;
if as37mar=1 then asa37mar=g37dmar;
if as38mar=1 then asa38mar=g38dmar;
if as41mar=1 then asa41mar=g41dmar;
if asrecmar eq 4 then

asragmar=max(asaa32mar,asa33mar,asa34mar,asa37mar,asa38mar,asa41mar);
if 1 <= asrecmar <=3 then asragmar=crtage;

if as32coc=1 then asa32coc=g32dcoc;
if as33coc=1 then asa33coc=g33dcoc;
if as34coc=1 then asa34coc=g34dcoc;
if as37coc=1 then asa37coc=g37dcoc;
if as38coc=1 then asa38coc=g38dcoc;
if as41coc=1 then asa41coc=g41dcoc;
if asreccoc eq 4 then

asragcoc=max(asaa32coc,asa33coc,asa34coc,asa37coc,asa38coc,asa41coc);
if 1 <= asreccoc <=3 then asragcoc=crtage;

if as32hal=1 then asa32hal=g32dhal;
if as33hal=1 then asa33hal=g33dhal;
if as34hal=1 then asa34hal=g34dhal;
if as37hal=1 then asa37hal=g37dhal;
if as38hal=1 then asa38hal=g38dhal;
if as41hal=1 then asa41hal=g41dhal;
if asrechal eq 4 then

```

```
asraghal=max(as32hal,asa33hal,asa34hal,asa37hal,asa38hal,asa41hal);
if 1 <= asrechal <=3 then asraghal=crtage;

if as32her=1 then asa32her=g32dher;
if as33her=1 then asa33her=g33dher;
if as34her=1 then asa34her=g34dher;
if as37her=1 then asa37her=g37dher;
if as38her=1 then asa38her=g38dher;
if as41her=1 then asa41her=g41dher;
if asrecher eq 4 then

asragher=max(as32her,asa33her,asa34her,asa37her,asa38her,asa41her);
if 1 <= asrecher <=3 then asragher=crtage;
```

\*-----\*  
| ABUSE FULL CRITERIA WITHIN PAST 12 MONTHS (AF12xxx)  
| --recency of at least one abuse symptoms was code 1-3  
| within past year, past 6 months, or past month  
\*-----\*;

```
if alifalc=1 and 1 <= asrecalc <= 3 then aflyalc=1 ; else aflyalc=0;  
if alifsed=1 and 1 <= asrecsed <= 3 then aflysed=1 ; else aflysed=0;  
if aliftrq=1 and 1 <= asrectrq <= 3 then aflytrq=1 ; else aflytrq=0;  
if alifsti=1 and 1 <= asrecsti <= 3 then aflysti=1 ; else aflysti=0;  
if alifags=1 and 1 <= asrecags <= 3 then aflyags=1 ; else aflyags=0;  
if alifinh=1 and 1 <= asrecinh <= 3 then aflyinh=1 ; else aflyinh=0;  
if alifmar=1 and 1 <= asrecmar <= 3 then aflymar=1 ; else aflymar=0;  
if alifcoc=1 and 1 <= asreccoc <= 3 then aflycoc=1 ; else aflycoc=0;  
if alifhal=1 and 1 <= asrechal <= 3 then aflyhal=1 ; else aflyhal=0;  
if alifher=1 and 1 <= asrecher <= 3 then aflyher=1 ; else aflyher=0;
```

```
*-----*  
| ABUSE FULL CRITERIA IN PAST MONTH (AF1Mxxx)  
| --recency of at least one abuse symptom was code 1  
*-----*;
```

```
if alifalc=1 and asrecalc =1 then aflmalc=1; else aflmalc=0;  
if alifsed=1 and asrecsed =1 then aflmsed=1; else aflmsed=0;  
if aliftrq=1 and asrectrq =1 then aflmtrq=1; else aflmtrq=0;  
if alifsti=1 and asrecsti =1 then aflmsti=1; else aflmsti=0;  
if alifags=1 and asrecags =1 then aflmags=1; else aflmags=0;  
if alifinh=1 and asrecinh =1 then aflminh=1; else aflminh=0;  
if alifmar=1 and asrecmar =1 then aflmmar=1; else aflmmar=0;  
if alifcoc=1 and asreccoc =1 then aflmcoc=1; else aflmcoc=0;  
if alifhal=1 and asrechal =1 then aflmhal=1; else aflmhal=0;  
if alifher=1 and asrecher =1 then aflmher=1; else aflmher=0;
```

```
*****;
```

```
/* 5. TOBACCO.SAS
```

```
Tobacco supplement was given to 4414 of the 8098 NSHS respondents.  
(Therefore the denominator must be adjusted.)
```

```
# indicates var not created/ full information not available  
RCUSETOB: recency of use, tobacco (1=past month 2=6mo 3=past year  
4=more than a year)  
DLIFTOB: dependence lifetime tobacco (no/yes)  
DLOATOB: dependence lifetime ONSET AGE  
  
D1PTOB: ever had at least 1 problem with tobacco (no/yes)  
# D1POATOB: dependence first problem ONSET AGE  
cannot create (only have age first time for cases  
who had at least 2 problems). Use DLOATOB.  
DPRECTOB: dependence problem RECENCY  
Using recency in CC18, asked only of cases who  
had at least ONE problem.  
# DPRAGTOB: dependence problem RECENCY AGE  
  
# DF1YTOB: dependence full criteria in past year (no/yes)  
# DF1MTOB: dependence full criteria in past 1 month (no/yes)  
*/  
*****;
```

```
/* making permanent tobacco dataset n=4414 tobacco respondents */
```

```
cc1a=v7403; cc1b=v7408; cc1c=v7413; cc1d=v7418;  
cc2a=v7404; cc2b=v7409; cc2c=v7414; cc2d=v7419;  
cc3a=v7405; cc3b=v7410; cc3c=v7415; cc3d=v7420;  
cc4a=v7406; cc4b=v7411; cc4c=v7416; cc4d=v7421;  
cc5a=v7407; cc5b=v7412; cc5c=v7417; cc5d=v7422;  
cc6=v7423; cc7=v7424; cc8=v7425; cc8a=v7426;  
cc8b=v7427; cc8c=v7428; cc9=v7429; cc10=v7430;  
cc10a=v7431; cc11=v7432; cc11a=v7433; cc12=v7434;  
cc12a=v7435; cc13=v7436; cc14=v7437; cc15=v7438;  
cc15a=v7439; cc16=v7440; cc17=v7441; cc18=v7442;
```

```
*-----*  
| RCUSETOB: Recency of tobacco use |  
*-----*;
```

```
array missr(*) cc4a cc4b cc4c cc4d;  
do i=1 to dim(missr);  
  if missr(i)=0 or missr(i)=-. then missr(i)=9;  
end;  
drop i;  
RCUSETOB=min(cc4a,cc4b,cc4c,cc4d);
```

```

if rcusetob=9 then rcusetob=.;

*-----*
| DLIFTOB: Dependence Lifetime Tobacco (0-no 1=yes) |
*-----*;

/* CRITERIA FOR TOBACCO DEPENDENCE, LIFETIME

A criteria: At least 3 yes of 6 problems:
(DSM requires 3 of 9 problems. We did not ask 3 of them
in the tobacco supplement. Assume 'NO' to these 3 unasked

A1. often take larger amounts than intended ... CC13=yes
A2. persistent desire or efforts to cut down .. CC12=yes
      or CC14=yes
A5. activities given up ..... CC15=yes
A6. continued use despite negative effects .... CC10=yes
      or CC11=yes
      or CC9=yes
A8. withdrawal symptoms ..... CC8=yes
A9. taken to relieve withdrawal symptoms ..... CC8c=yes

B criteria: At least 2 of 6 conditions indicating
symptoms persisted or repeated

B1. automatically YES if CC13 is YES ("often")
B2.   CC12 is yes and CC12a is yes
      or CC14 is yes and CC7 >=2
B5.   CC15a is yes
B6.   CC10 is yes and CC10a is yes
      or CC11 is yes and CC11a is yes
      or CC9 is yes and CC7 >=2
B8.   CC8 is yes and:
      (CC8a >=30 or CC8b is yes)
B9.   CC8c is yes and CC7 <=2

Summary of criteria: Tobacco dependence is diagnosed if
ever used any of four tobacco substances (cigarettes,
cigars, pipes, chewing tobacco or snuff) and had 3 or more
of 6 possible A criteria and 2 or more of 6 possible B criteria.

*/
* A Criteria;
if cc13=1          then tobal=1;
if cc12=1 or cc14=1  then toba2=1;
if cc15=1          then toba5=1;
if cc10=1 or cc11=1 or cc9=1 then toba6=1;
if cc8=1           then toba8=1;
if cc8c=1          then toba9=1;
tobatot=sum(tobal,toba2,toba5,toba6,toba8,toba9);
if tobatot >= 3      then tobocrita=1;

```

```

*      B Criteria;

if tobal=1                               then tobbl=1;

if toba2=1 and (cc12a=1
    or (cc14=1 and cc7 >= 2))          then tobb2=1;

if toba5=1 and cc15a=1                  then tobb5=1;

if (cc10=1 and cc10a=1) or
    (cc11=1 and cc11a=1) or
    (cc9=1 and cc7 >= 2)                then tobb6=1;

if toba8=1 and (cc8a >= 30 or cc8b=1) then tobb8=1;

if toba9=1 and cc7 >= 2                 then tobb9=1;
tobbtot=sum(tobbl,tobb2,tobb5,tobb6,tobb8,tobb9);
if tobbtot >= 2                         then tobcritb=1;
if tobcrita=1 and tobcritb=1 then DLIFTOB=1;
else dliftob=0;

*-----*
| DLOATOB: Dependence Lifetime Onset Age Tobacco
|   using CC17 age, only if lifetime dep critera met |
*-----*;

if cc17=0 or cc17 >= 98 then cc17=.;
if dliftob=1 then DLOATOB=cc17; else dloatob=.;

*-----*
| D1PTOB: Dependence EVER AT LEAST 1 PROBLEM
*-----*;

if cc13=1 or cc12=1 or cc14=1 or cc15=1 or cc10=1
or cc11=1 or cc9=1 or cc8=1 or cc8c=1      then D1PTOB=1;
else dlptob=0;

*-----*
| DPRECTOB: dependence problem RECENTY
*-----*;

if 1<=cc18<=4 then DPRECTOB=cc18; else DPRECTOB=.;

*-----*
| DPRAGTOB: dependence problem RECENTY AGE
*-----*;
*/
    Not asked
*/

```

```

*-----*
| DF1YTOB: Dependence Full criteria in past year |
*-----*;
/*
   We did not ask recency of specific problems,
   only "last time you had any of those problems".
*/

*-----*
| DF1MTOB: Dependence Full criteria in past month |
*-----*;
/*
   We did not ask recency of specific problems,
   only "last time you had any of those problems".
*/

*****;
*****;
/* DRUG6.SAS */

* DLIFCON (Dependence, Lifetime, any controlled substance);

   if dlifsed=1 or dliftrq=1 or dlifsti=1 or dlifags=1 or dlifinh=1 or
      dlifmar=1 or dlifcoc=1 or dlifhal=1 or dlifher=1 then dlifCON=1;
   else dlifCON=0;

* DLOACON (Dependence, Lifetime Onset Age, any controlled substance);

   array dloa(*) dloased dloatrq dloasti dloaags dloainh
         dloamar dloacoc dloahal dloaher;
      do i=1 to dim(dloa);
      if dloa(i)=. then dloa(i)=999;
      end; drop i;
   dloaCON=min(dloased,dloatrq,dloasti,dloaags,dloainh,
              dloamar,dloacoc,dloahal,dloaher);
   if dloaCON=999 then dloaCON=.;

* D1POACON (Dependence, 1st Problem, Onset age, any controlled substance);

   array dpoa(*) dlpoased dlpoatrq dlpoasti dlpoaags dlpoainh
         dlpoamar dlpoacoc dlpoahal dlpoaher;
      do i=1 to dim(dpoa);
      if dpoa(i)=. then dpoa(i)=999;
      end; drop i;
   dlpoacon=min(dlpoased,dlpoatrq,dlpoasti,dlpoaags,dlpoainh,
                dlpoamar,dlpoacoc,dlpoahal,dlpoaher);
   if dlpoacon=999 then dlpoacon=.;
```

```

* DPRECCON (Dependence Problem RECENCY, any controlled substance);

array drec(*)  dprecسد dprecتر dprecستي dprecags dprecinh
      dprecmar dpreccoc dprechal dprecher;
do i=1 to dim(drec);
  if drec(i)=. then drec(i)=9;
end; drop i;

dpreccon=min(dprecسد,dprecتر,dprecستي,dprecags,dprecinh,
              dprecmar,dpreccoc,dprechal,dprecher);
if dprecCON=9 then dprecCON=.;

* DPRAGCON (Dependence Problem RECENCY AGE, any controlled substance);

array drag(*)  dpragsد dpragتر dpragستي dpragags dpraginh
      dpragmar dpragcoc dpraghال dpragher;
do i=1 to dim(drag);
  if drag(i)=999 then drag(i)=. ;
end; drop i;
dpragcon=max(dpragsد,dpragتر,dpragستي,dpragags,dpraginh,
              dpragmar,dpragcoc,dpraghال,dpragher);

* DFLYCON (Dependence Full Criteria in Past Year, any controlled substance);

if dflysed=1 or dflytrq=1 or dflysti=1 or dflyags=1 or dflyinh=1 or
   dflymar=1 or dflycoc=1 or dflyhal=1 or dflyher=1 then dflycon=1;
else dflycon=0;

* ALIFCON (Abuse, Lifetime, any controlled substance);

if alifsed=1 or aliftrq=1 or alifsti=1 or alifags=1 or alifinh=1 or
   alifmar=1 or alifcoc=1 or alifhal=1 or alifher=1 then alifcon=1;
else alifCON=0;

* ALOACON (Abuse, Lifetime Onset Age, any controlled substance);

array Aloa(*) aloased aloatrq aloasti aloaags aloainh
      aloamar aloacoc aloahال aloaher;
do i=1 to dim(aloa);
  if aloa(i)=. then aloa(i)=999;
end; drop i;
aloaCON=min(alosed,aloatrq,aloasti,aloaags,aloainh,
             aloamar,aloacoc,aloahال,aloaher);
if aloacon=999 then aloacon=.;

* ASRECCON (Abuse SYMPTOM RECENCY, any controlled substance);

array asrec(*)  asrecسد asrectر asrecستي asrecags asrecinh
      asrecmar asreccoc asrechal asrecher;
do i=1 to dim(asrec);
  if asrec(i)=. then asrec(i)=9;      end; drop i;

```

```

asrecccon=min(asrecsed,asrectrq,asrecsti,asrecags,asrecinh,
               asrecmar,asreccoc,asrechal,asrecher);
if asrecccon=9 then asrecccon=.;
```

\* ASRAGCON (Abuse SYMPTOM RECENTY AGE, any controlled substance);

```

array asrag(*)    asragsed asragtrq asragsti asragags asraginh
               asragmar asragcoc asraghal asragher;
do i=1 to dim(asrag);
if asrag(i)=999 then asrag(i)=.;      end; drop i;
```

```

asragcon=max(asragsed,asragtrq,asragsti,asragags,asraginh,
               asragmar,asragcoc,asraghal,asragher);
```

\* AFLYCON (Abuse Full Criteria in Past Year, any controlled substance);

```

if aflysed=1 or aflytrq=1 or aflysti=1 or aflyags=1 or aflyinh=1 or
   aflymar=1 or aflycoc=1 or aflyhal=1 or aflyher=1 then aflycon=1;
else aflycon=0;
```

\* DALIFCON (Dependence or Abuse, Life, any controlled substance);

```

if dlifcon=1 or alifcon=1 then dalifcon=1; else dalifcon=0;
```

\* DALIFALC (Dependence or Abuse, Life, alcohol);

```

if dlifalc=1 or alifalc=1 then dalifalc=1; else dalifalc=0;
```

```

array missx(*)
aprecalc aprecsed aprecctrq aprecsti aprecags aprecinh
aprecmar apreccoc aprechal aprecher
asrecalc asrecsed asrectrq asrecsti asrecags asrecinh
asrecmar asreccoc asrechal asrecher
dprecalc dprecSED dprecctrq dprecsti dprecags dprecinh
dprecmar dpreccoc dprechal dprecher;
```

```

do i=1 to dim(missx);
if missx(i)=9 then missx(i)=.;      end; drop i;
```

```

array missy(*)
dloaalc dloased dloatrq dloasti dloags dloainh
dloamar dloacoc dloahal dloaher
dlpoaalc dlpoased dlpoatrq dlpoasti dlpoags dlpoainh
dlpoamar dlpoacoc dlpoahal dlpoaher
aloaalc aloased aloatrq aloasti aloags aloainh
aloamar aloacoc aloahal aloaher;
do i=1 to dim(missy);
if missy(i)=999 then missy(i)=.;      end; drop i;
```

```
*****;  
*;  
*;  
* Diagnoses Generated by the Above Programs *;  
*;  
*;  
*****;
```

\*\*\* DSM-III-R Affective and Anxiety Disorders;

```
* nap50;  
  man1  man2  manons  manonsa  manrec  manreca  
  hman   hmanons  hmanonsa  hmanrec  hmanreca  
  dep1  dep2  depons  deponsa  deprec  depreca  
  dysl  dys2  dysons  dysonsa  dysrec  dysreca  
  gadl  gad2  gadons  gadonsa  gadrec  gadreca  
  ago    agons  agonsa  agrec   agreca  
  sim    simons  simonsa  simrec  simreca  
  soc    socons  soconsa  socrec  socreca  
  pd     ptons  ptonsa  ptrec   ptreca  
  pt     pdons  pdonsa  pdrec   pdreca  
  ptsd  
  aspl  asp2  
  aab  
  cd
```

\*\*\* DSM-III-R Substance Abuse and Dependence Disorders;

```
dlifalc  dlifsed  dliftrq  dlifsti  dlifags  dlifinh  dlifmar  dlifcoc  
dlifhal  dlifher  
dloalalc dloased  dloatrq  dloasti  dloags   dloainh  dloamar  dloacoc  
dloahal  dloaher  
dtpalc   dtpsed   dtptrq   dtpsti   dtpags   dtpinh   dtpmar   dtpcoc  
dtphal   dtpher  
dlpalc   dlpsed   dlptrq   dlpsti   dlpags   dlpinh   dlpmar   dlpcoc  
dlphal   dlpher  
dlpoaalc dlpoased dlpoatrq dlpoasti dlpoaags dlpoainh dlpoamar dlpoacoc  
dlpoahal dlpoaher  
dprecalc dprecسد dprecترق dprecستي dprecags dprecinh dprecmar dpreccoc  
dprechal dprecher  
dpragalc dpragsد dpragترق dpragستي dpragags dpraginh dpragmar dpragcoc  
dpraghال dpragher  
dflyalc  dflysed  dflytrq  dflysti  dflyags  dflyinh  dflymar  dflycoc  
dflyhal  dflyher  
dflmalc  dflmsed  dflmtrq  dflmsti  dflmags  dflminh  dflmmar  dflmcoc  
dflmhal  dflmher  
alifalc  alifsed  aliftrq  alifsti  alifags  alifinh  alifmar  alifcoc  
alifhal  alifher  
aloalalc aloased  aloatrq  aloasti  aloags   aloainh  aloamar  aloacoc
```

aloahal aloaher  
aprecalc aprecsed aprectrq aprecsti aprecags aprecinh aprecmar apreccoc  
aprechal aprecher  
apragsalc apragsed apragtrq apragsti apragags apraginh pragmar pragcoc  
aprighthal apragher  
asrecalc asrecsed asrectrq asrecsti asrecags asrecinh asrecmar asrecoc  
asrechal asrecher  
asragalc asrageds asragtrq asragsti asragags asraginh asragmar asragcoc  
asraghal asragher  
aflyalc aflysed aflytrq aflysti aflyags aflyinh aflymar aflycoc  
aflyhal aflyher  
aflmalc aflmsed aflmtrq aflmsti aflmags aflminh aflmmar aflmcoc  
aflmhal aflmher

dlifcon dloacon dlpoacon dprecccon dpragcon dflycon  
alifcon aloacon asreccon asragcon aflycon  
dalifcon dalifalc

rcusetob dliftob dloatob dlptob drectob;

\*\*\*\*\*;



## **Appendix B**

**Diagnostic Algorithms for NCS/DSM-III-R Disorders**

**NCS Working Paper #7**



|    | Var. Name | Q. Number | Label                  |
|----|-----------|-----------|------------------------|
| 1  | ID        | none      | case id                |
| 2  | V12       | none      | R's age                |
| 3  | V301      | b1        | ever frightnd/anxious  |
| 4  | V302      | b2        | ever lmo/more anxious  |
| 5  | V303      | b2a       | #longst time anxious   |
| 6  | V304      | b2a       | period time anxious    |
| 7  | V305      | b2b       | B2a 6mo or longer      |
| 8  | V306      | b3        | sad 2 yrs or more      |
| 9  | V307      | b3a       | 2yr sad uninterrupted  |
| 10 | V308      | b4        | sad/blue 2wks or more  |
| 11 | V309      | b4a       | low/gloomy 2wks/more   |
| 12 | V310      | b5        | no interest 2wks/more  |
| 13 | V311      | b5a       | complty no interest    |
| 14 | V312      | b6        | manic/excitd 2dy/more  |
| 15 | V313      | b7        | irritable severl days  |
| 16 | V314      | b8        | frightend listA/pagel  |
| 17 | V315      | b8a       | fear crowd/in line     |
| 18 | V316      | b8b       | fear away from home    |
| 19 | V317      | b8c       | fear in public place   |
| 20 | V318      | b8d       | fear in car/tran/bus   |
| 21 | V319      | b8e       | fear crossing bridge   |
| 22 | V320      | b9        | ckpt-1/more yes B8a-e  |
| 23 | V321      | b10       | "dizy,sweaty,tremble"  |
| 24 | V322      | b11       | "chest/stom hurt,chok" |
| 25 | V323      | b12       | afraid of collapsing   |
| 26 | V324      | b12a      | othr embarrassng sxs   |
| 27 | V325      | b13       | avoid situ duto fear   |
| 28 | V334      | b19       | unable travel (fear)   |
| 29 | V335      | b20       | unabl leavehome-fear   |
| 30 | V336      | b21       | fear interf w/life     |
| 31 | V337      | b22       | avoidnc intrfr w/lif   |
| 32 | V338      | b23       | ckpt-1/> boxs B15-22   |
| 33 | V339      | b24       | first time had fears   |
| 34 | V340      | b25       | exact age 1st fears    |
| 35 | V341      | b25a/b    | how old 1st fears      |
| 36 | V342      | b25c      | earliest age fears     |
| 37 | V343      | b26       | last time had fears    |
| 38 | V344      | b26a      | #yrs old last time     |
| 39 | V401      | b29a      | fear public speakng    |
| 40 | V402      | b29b      | fear public toilet     |
| 41 | V403      | b29c      | fear public eating     |
| 42 | V404      | b29d      | fear talk w/others     |
| 43 | V405      | b29e      | fear writng-watched    |
| 44 | V406      | b29f      | fear sm publ speakn    |
| 45 | V407      | b30       | ckpt-1/ > yes B29a-f   |
| 46 | V408      | b31       | fear months or years   |
| 47 | V409      | b31a      | avoided situation      |
| 48 | V417      | b36       | upset w/self forfear   |
| 49 | V418      | b37       | fear interfer w/life   |

|     |      |        |                        |
|-----|------|--------|------------------------|
| 50  | V419 | b38    | avoidnc intrfrw/life   |
| 51  | V420 | b39    | ckpt-1/> yes B32-B38   |
| 52  | V421 | b40    | 1st time had fear      |
| 53  | V422 | b41    | exact age 1st x fear   |
| 54  | V423 | b41a/b | age 1st x fear         |
| 55  | V424 | b41c   | earliest had fears     |
| 56  | V425 | b42    | last time had fears    |
| 57  | V426 | b42a   | #yrs old last time     |
| 58  | V427 | b43    | fear prohibit tasks    |
| 59  | V428 | b44    | fear probib.soc.life   |
| 60  | V429 | b45    | "nervous,panic,sweaty" |
| 61  | V430 | b46    | "blush,shake,embarrsd" |
| 62  | V501 | b49a   | fear of heights        |
| 63  | V502 | b49b   | fear of flying         |
| 64  | V503 | b49c   | fear closed spaces     |
| 65  | V504 | b49d   | fear of being alone    |
| 66  | V505 | b49e   | ckpt-1/> yes B49a-d    |
| 67  | V506 | b49g   | "fear storm,thunder"   |
| 68  | V507 | b49h   | "fear snakes,animals"  |
| 69  | V508 | b49i   | "fear blood,shot"      |
| 70  | V509 | b49j   | "fear watr,lake,pool"  |
| 71  | V510 | b49k   | othr fear to avoid     |
| 72  | V511 | b50    | ckpt-1/> yes B49a-k    |
| 73  | V512 | b51    | fear months or years   |
| 74  | V513 | b51a   | avoided situation      |
| 75  | V521 | b56    | upset w/self 4 fears   |
| 76  | V522 | b57    | fear interfer w/life   |
| 77  | V523 | b58    | avoidnc intrfrw/life   |
| 78  | V524 | b59    | ckpt-1/> boxs B52-58   |
| 79  | V525 | b60    | 1st time had fears     |
| 80  | V526 | b61    | exact age 1st x fear   |
| 81  | V527 | b61a/b | age 1st x fear         |
| 82  | V528 | b61c   | earliest age fear      |
| 83  | V529 | b62    | last x had fear        |
| 84  | V530 | b62a   | age last time fear     |
| 85  | V531 | b63    | fear prohibit tasks    |
| 86  | V532 | b64    | fear probht.soc.life   |
| 87  | V533 | b65    | "nervous,panic,sweaty" |
| 88  | V534 | b66    | fear ever w/drug/alc   |
| 89  | V535 | b66a   | fear always w/drugs    |
| 90  | V536 | b66b   | fear or drugs 1st      |
| 91  | V537 | b67    | drugs to reduce fear   |
| 92  | V538 | b67a   | drugs made R better    |
| 93  | V609 | b70    | anxios-no dangr/attn   |
| 94  | V610 | b71a   | short/trbl w/breath    |
| 95  | V611 | b71b   | heart pound            |
| 96  | V612 | b71c   | dizzy/lightheaded      |
| 97  | V613 | b71d   | pain chest/stomach     |
| 98  | V614 | b71e   | feet tingle/numb       |
| 99  | V615 | b71f   | "chokng,diff swallow"  |
| 100 | V616 | b71g   | feel faint             |
| 101 | V617 | b71h   | did R sweat            |

|     |      |        |                        |
|-----|------|--------|------------------------|
| 102 | V618 | b71i   | tremble or shake       |
| 103 | V619 | b71j   | hot flashes/chills     |
| 104 | V620 | b71k   | things seem unreal     |
| 105 | V621 | b71l   | time slow/quick        |
| 106 | V622 | b71m   | afraid might die       |
| 107 | V623 | b71n   | afraid act crazy       |
| 108 | V624 | b71o   | did R have nausea      |
| 109 | V625 | b71p   | pain stomach/belly     |
| 110 | V626 | b71q   | feel smothering        |
| 111 | V627 | b71r   | have dry mouth         |
| 112 | V628 | b72    | ckpt-2/> yes B71a-r    |
| 113 | V629 | b73    | sxs sudden &gotworse   |
| 114 | V630 | b74    | lst x attack/frightn   |
| 115 | V631 | b75    | exact age lstx attac   |
| 116 | V632 | b75a/b | age 1st x attack       |
| 117 | V633 | b75c   | earliest age attack    |
| 118 | V634 | b76    | last x attck & 2 sxs   |
| 119 | V635 | b76a   | age last time          |
| 120 | V636 | b77    | #spell/attck in life   |
| 121 | V637 | b78    | ckpt-3/< attcks B77    |
| 122 | V638 | b79    | 4/> spells w/in 4wks   |
| 123 | V639 | b79a   | exct age 4/>attk4wk    |
| 124 | V640 | b79b/c | age 4/>attks 4wks      |
| 125 | V641 | b79d   | earlst age 4/>attck    |
| 126 | V642 | b80    | afraid another attak   |
| 127 | V643 | b80a   | exct age 1st afraid    |
| 128 | V644 | b80b/c | age 1st x afraid       |
| 129 | V645 | b80d   | earlst age afraid      |
| 130 | V701 | b82    | 4attks/wk in 1/> mos   |
| 131 | V702 | b83    | tell dr about attaks   |
| 132 | V703 | b83a   | age 1st told doctor    |
| 133 | V704 | b84    | dr prscrbd med 4 attk  |
| 134 | V705 | b84a   | age lstx dr prscrbd    |
| 135 | V706 | b85    | dr advise m.h.profsl   |
| 136 | V707 | b85a   | age lstx m.h.profsl    |
| 137 | V708 | b86    | m.h.profsl 4 attacks   |
| 138 | V709 | b86a   | age lstx m.h.profsl    |
| 139 | V710 | b87    | othr profsl 4 attaks   |
| 140 | V711 | b87a   | age lstx othr profl    |
| 141 | V712 | b88    | medicatn >lx 4 attak   |
| 142 | V713 | b88a   | age lstx took meds     |
| 143 | V714 | b89    | attak interfr w/life   |
| 144 | V715 | b90    | "ckpt-yes B83,86 or87" |
| 145 | V716 | b91    | ckpt-seeB90a;1stckpt   |
| 146 | V717 | b92    | attak-illness/injury   |
| 147 | V718 | b93    | attk-alwys ilns/injr   |
| 148 | V719 | b94    | attk-alwys med/drugs   |
| 149 | V732 | b99a   | attk evry x in situ    |
| 150 | V733 | b99b   | attk most x in situ    |
| 151 | V734 | b99c   | attk not in situatn    |
| 152 | V803 | b101   | anxs-worry 4 nothng    |
| 153 | V804 | b101a  | worry-not serious      |

|     |      |          |                     |
|-----|------|----------|---------------------|
| 154 | V805 | b102     | diff worris same x  |
| 155 | V806 | b102a    | wory-othr do/happn  |
| 156 | V807 | b102c    | ckpt-wories B102b   |
| 157 | V808 | b103a    | easily startled     |
| 158 | V809 | b103b    | trembly or shake    |
| 159 | V810 | b103c    | restlessness        |
| 160 | V811 | b103d    | "tense,sore,aching" |
| 161 | V812 | b103e    | "keyed up, on edge" |
| 162 | V813 | b103f    | partic. irritable   |
| 163 | V814 | b103g    | heart pound/race    |
| 164 | V815 | b103h    | smothering          |
| 165 | V816 | b103i    | easily tired        |
| 166 | V817 | b103j    | cold/clammy hands   |
| 167 | V818 | b103k    | dry mouth           |
| 168 | V819 | b103l    | nausea or diarrhea  |
| 169 | V820 | b103m    | diffclty concentrat |
| 170 | V821 | b103n    | hot flashes/chills  |
| 171 | V822 | b103o    | troubl swallowing   |
| 172 | V823 | b103p    | trbl stayng asleep  |
| 173 | V824 | b103q    | pain in stomach     |
| 174 | V825 | b103r    | trbl mind on task   |
| 175 | V826 | b103s    | urinate too freq    |
| 176 | V827 | b103t    | dizzy/lightheaded   |
| 177 | V828 | b103u    | feel faint/unreal   |
| 178 | V829 | b103v    | lose contrl/go mad  |
| 179 | V830 | b103w    | did R sweat a lot   |
| 180 | V902 | b105a_01 | rxn fr drug-anxios  |
| 181 | V903 | b105a_02 | 2                   |
| 182 | V904 | b105a_03 | 3                   |
| 183 | V905 | b105a_04 | 4                   |
| 184 | V906 | b105a_05 | 5                   |
| 185 | V907 | b105a_06 | 6                   |
| 186 | V908 | b105a_07 | 7                   |
| 187 | V909 | b105a_08 | 8                   |
| 188 | V910 | b105a_09 | 9                   |
| 189 | V911 | b105a_10 | 10                  |
| 190 | V912 | b105a_11 | 11                  |
| 191 | V913 | b105a_12 | 12                  |
| 192 | V914 | b105a_13 | 13                  |
| 193 | V915 | b105a_14 | 14                  |
| 194 | V916 | b105a_15 | 15                  |
| 195 | V917 | b105a_16 | 16                  |
| 196 | V918 | b105a_17 | 17                  |
| 197 | V919 | b105a_18 | 18                  |
| 198 | V920 | b105a_19 | 19                  |
| 199 | V921 | b105a_20 | 20                  |
| 200 | V922 | b105a_21 | 21                  |
| 201 | V923 | b105a_22 | 22                  |
| 202 | V924 | b105a_23 | 23                  |
| 203 | V925 | b106     | lstx anx 4 6mo&rxn  |
| 204 | V926 | b107     | exact age 1st time  |
| 205 | V927 | b107a/b  | age 1st x startd    |

|     |       |       |                        |
|-----|-------|-------|------------------------|
| 206 | V928  | b107c | earlst age anx 6mo     |
| 207 | V929  | b108  | last x anx 6mo&rxns    |
| 208 | V930  | b108a | age lastx anx&rxns     |
| 209 | V945  | b116a | anx always w/drugs     |
| 210 | V946  | b116b | anx or drugs first     |
| 211 | V1004 | c1b   | sad/depresd-hopeless   |
| 212 | V1005 | c1c   | sad-not cope w/life    |
| 213 | V1006 | c1d   | sad-life not better    |
| 214 | V1007 | c2    | exact age-sad 2/> yrs  |
| 215 | V1008 | c2a/b | age sad 2yr startd     |
| 216 | V1009 | c2c   | earlist age sad 2yrs   |
| 217 | V1010 | c3    | deprsn constant ornot  |
| 218 | V1011 | c3a   | #time depressn lasts   |
| 219 | V1012 | c3a   | period depressn lasts  |
| 220 | V1013 | c3b   | #x betwn depr perids   |
| 221 | V1014 | c3b   | period betwn deprsns   |
| 222 | V1015 | c4    | last x depressn 2yrs/> |
| 223 | V1016 | c4a   | age lastx dprs 2yr/>   |
| 224 | V1101 | d2    | lost appetite 2wks/>   |
| 225 | V1102 | d3    | completely no appetite |
| 226 | V1103 | d4    | lost wgt w/out trying  |
| 227 | V1104 | d5    | how much weight lost   |
| 228 | V1105 | d6    | increas appetit 2wk/>  |
| 229 | V1106 | d7    | gained weight-2lbs/wk  |
| 230 | V1107 | d8    | most weight evr gaind  |
| 231 | V1108 | d9    | trbl fall asleep 2wk>  |
| 232 | V1109 | d10   | 2hr fall asleep2wk/>   |
| 233 | V1110 | d11   | trbl stayng sleep2wk   |
| 234 | V1111 | d12   | awake >1hr 4 2wks/>    |
| 235 | V1112 | d13   | woke too early 2wk/>   |
| 236 | V1113 | d14   | woke 2hr early 2wk/>   |
| 237 | V1114 | d15   | slept too much 2wk/>   |
| 238 | V1115 | d16   | lack enrgy/tird 2wk>   |
| 239 | V1116 | d17   | complty no enrgy2wk    |
| 240 | V1117 | d18   | bad morn/bettr later   |
| 241 | V1118 | d19   | talkd/move slower2wk   |
| 242 | V1119 | d20   | othr noticd R slower   |
| 243 | V1120 | d21   | moved all time-2wk/>   |
| 244 | V1121 | d22   | respons fr B5 screen   |
| 245 | V1122 | d23   | respns fr B5a screen   |
| 246 | V1123 | d24   | not enjoy good thing   |
| 247 | V1124 | d25   | less interest in sex   |
| 248 | V1125 | d26   | complt lost sex intr   |
| 249 | V1126 | d27   | felt worthless 2wk/>   |
| 250 | V1127 | d28   | complt worthlss 2wk>   |
| 251 | V1128 | d29   | felt sinful 2wks/>     |
| 252 | V1129 | d30   | felt guilty 2wks/>     |
| 253 | V1130 | d31   | felt inferior 2wks/>   |
| 254 | V1131 | d32   | low self-confidance    |
| 255 | V1132 | d33   | complt lost confidnc   |
| 256 | V1133 | d34   | trbl concentrng 2wk>   |
| 257 | V1134 | d35   | unabl pay atten 2wk>   |

|     |       |           |                            |
|-----|-------|-----------|----------------------------|
| 258 | V1135 | d36       | slow thoughts/mixup        |
| 259 | V1136 | d37       | unabl decide 4 2wk/>       |
| 260 | V1137 | d38       | complet unabl decide       |
| 261 | V1138 | d39       | ckpt-yes respons B3a       |
| 262 | V1139 | d40       | ckpt-2/> sadnes boxs       |
| 263 | V1140 | none      | consistency check variable |
| 264 | V1141 | d41       | thougut alot of death      |
| 265 | V1142 | d42       | wanted to die 2wks/>       |
| 266 | V1143 | d43       | thougt comitng suicd       |
| 267 | V1144 | d44       | evr attempted suicid       |
| 268 | V1205 | d47       | feeling w/problems         |
| 269 | V1206 | d47a      | nevr feeling w/prblm       |
| 270 | V1220 | d55       | feeling prohib.workng      |
| 271 | V1221 | d56       | hospitalizd 4 feelng       |
| 272 | V1222 | d56a      | age 1st hospitalized       |
| 273 | V1223 | d57       | ckpt-1/>boxs D48-D56       |
| 274 | V1224 | d58       | #period feel w/probl       |
| 275 | V1225 | d59       | when period started        |
| 276 | V1226 | d60       | exact age perd start       |
| 277 | V1227 | d60a/b    | age period startd          |
| 278 | V1228 | d61       | period after death         |
| 279 | V1229 | d61a      | other causd feeling        |
| 280 | V1230 | d62       | feel&prbl end/still        |
| 281 | V1231 | d62a      | when feel&probl end        |
| 282 | V1232 | d62b      | exact age feelg end        |
| 283 | V1233 | d62c/d    | age feel/prbl end          |
| 284 | V1234 | d63       | #time feel/prbl last       |
| 285 | V1235 | d63       | period feel/prb last       |
| 286 | V1236 | d64       | lx feelng&prbl 2wk/>       |
| 287 | V1237 | d65       | exct age lx feel/prb       |
| 288 | V1238 | d65a/b    | age lx feelg/prbl          |
| 289 | V1239 | d65c      | earlst age feel 2wk        |
| 290 | V1240 | d66       | lastx feel&prbl 2wk>       |
| 291 | V1241 | d66a      | age lastx feel 2wk>        |
| 292 | V1301 | d69       | btwn feelings felt ok      |
| 293 | V1302 | d69a      | btwn work&enjoy oth        |
| 294 | V1303 | d69b      | normal period 6mo/>        |
| 295 | V1304 | d69c      | normal period 2mo/>        |
| 296 | V1305 | d70       | feeling after death        |
| 297 | V1306 | d70a      | feel&prb aftr death        |
| 298 | V1340 | d74       | #time longst feel&pr       |
| 299 | V1341 | d74       | period lngst feel&pr       |
| 300 | V1342 | d75       | ckpt-yes B3a screenr       |
| 301 | V1343 | d76       | exct age lx feel 2yr       |
| 302 | V1344 | d76a/b    | age lx feel 2yr/>          |
| 303 | V1345 | d76c      | earlst age feel 2yr        |
| 304 | V1346 | d77       | when lastx feel&prbl       |
| 305 | V1347 | d77a      | age lastx feel&prbl        |
| 306 | V1348 | d78       | age most/# feelgs 2wk      |
| 307 | V1349 | d79       | part.bad feeling 2wk>      |
| 308 | V1350 | d79a/b    | age bad/recntfeel          |
| 309 | V1401 | d81a/b_01 | categ#3 problm#01          |

|     |       |           |                            |
|-----|-------|-----------|----------------------------|
| 310 | V1402 | d81a/b_02 | categ#3 problm#02          |
| 311 | V1403 | d81a/b_03 | categ#3 problm#03          |
| 312 | V1404 | d81a/b_04 | categ#3 problm#04          |
| 313 | V1405 | d81a/b_05 | categ#3 problm#05          |
| 314 | V1406 | d81a/b_06 | categ#4 problm#06          |
| 315 | V1407 | d81a/b_07 | categ#4 problm#07          |
| 316 | V1408 | d81a/b_08 | categ#4 problm#08          |
| 317 | V1409 | d81a/b_09 | categ#4 problm#09          |
| 318 | V1410 | d81a/b_10 | categ#4 problm#10          |
| 319 | V1411 | d81a/b_11 | categ#4 problm#11          |
| 320 | V1412 | d81a/b_12 | categ#4 problm#12          |
| 321 | V1413 | d81a/b_13 | categ#5 problm#13          |
| 322 | V1414 | d81a/b_14 | categ#5 problm#14          |
| 323 | V1415 | d81a/b_15 | categ#5 problm#15          |
| 324 | V1416 | d81a/b_16 | categ#6 problm#16          |
| 325 | V1417 | d81a/b_17 | categ#6 problm#17          |
| 326 | V1418 | d81a/b_18 | categ#6 problm#18          |
| 327 | V1419 | d81a/b_19 | categ#7 problm#19          |
| 328 | V1420 | d81a/b_20 | categ#7 problm#20          |
| 329 | V1421 | d81a/b_21 | categ#7 problm#21          |
| 330 | V1422 | d81a/b_22 | categ#7 problm#22          |
| 331 | V1423 | d81a/b_23 | categ#7 problm#23          |
| 332 | V1424 | d81a/b_24 | categ#8 problm#24          |
| 333 | V1425 | d81a/b_25 | categ#8 problm#25          |
| 334 | V1426 | d81a/b_26 | categ#8 problm#26          |
| 335 | V1427 | d81a/b_27 | categ#8 problm#27          |
| 336 | V1428 | d81a/b_28 | categ#8 problm#28          |
| 337 | V1429 | d81a/b_29 | categ#8 problm#29          |
| 338 | V1430 | d81a/b_30 | categ#8 problm#30          |
| 339 | V1431 | d81a/b_31 | categ#9 problm#31          |
| 340 | V1432 | d81a/b_32 | categ#9 problm#32          |
| 341 | V1433 | d81a/b_33 | categ#9 problm#33          |
| 342 | V1434 | d81a/b_34 | categ#9 problm#34          |
| 343 | V1435 | d81a/b_35 | categ#9 problm#35          |
| 344 | V1436 | d81a/b_36 | categ#10 prblm#36          |
| 345 | V1437 | d81a/b_37 | categ#10 prblm#37          |
| 346 | V1438 | d81a/b_38 | categ#10 prblm#38          |
| 347 | V1439 | d81a/b_39 | categ#10 prblm#39          |
| 348 | V1440 | none      | consistency check variable |
| 349 | V1441 | d81c      | ckpt-1box/3or>categ        |
| 350 | V1442 | d82       | ckpt-03 ckd D81a-81b       |
| 351 | V1443 | d82a      | #lb wt lost w/feelg        |
| 352 | V1444 | d83       | ckpt-05 ckd D81a-81b       |
| 353 | V1445 | d83a      | #lb wt gaind w/feel        |
| 354 | V1501 | d84a_01   | problem #01                |
| 355 | V1502 | d84a_02   | problem #02                |
| 356 | V1503 | d84a_03   | problem #03                |
| 357 | V1504 | d84a_04   | problem #04                |
| 358 | V1505 | d84a_05   | problem #05                |
| 359 | V1506 | d84a_06   | problem #06                |
| 360 | V1507 | d84a_07   | problem #07                |
| 361 | V1508 | d84a_08   | problem #08                |

|     |       |         |                        |
|-----|-------|---------|------------------------|
| 362 | V1509 | d84a_09 | problem #09            |
| 363 | V1510 | d84a_10 | problem #10            |
| 364 | V1511 | d84a_11 | problem #11            |
| 365 | V1512 | d84a_12 | problem #12            |
| 366 | V1513 | d84a_13 | problem #13            |
| 367 | V1514 | d84a_14 | problem #14            |
| 368 | V1515 | d84a_15 | problem #15            |
| 369 | V1516 | d84a_16 | problem #16            |
| 370 | V1517 | d84a_17 | problem #17            |
| 371 | V1518 | d84a_18 | problem #18            |
| 372 | V1519 | d84a_19 | problem #19            |
| 373 | V1520 | d84a_20 | problem #20            |
| 374 | V1521 | d84a_21 | problem #21            |
| 375 | V1522 | d84a_22 | problem #22            |
| 376 | V1523 | d84a_23 | problem #23            |
| 377 | V1524 | d84a_24 | problem #24            |
| 378 | V1525 | d84a_25 | problem #25            |
| 379 | V1526 | d84a_26 | problem #26            |
| 380 | V1527 | d84a_27 | problem #27            |
| 381 | V1528 | d84a_28 | problem #28            |
| 382 | V1529 | d84a_29 | problem #29            |
| 383 | V1530 | d84a_30 | problem #30            |
| 384 | V1531 | d84a_31 | problem #31            |
| 385 | V1532 | d84a_32 | problem #32            |
| 386 | V1533 | d84a_33 | problem #33            |
| 387 | V1534 | d84a_34 | problem #34            |
| 388 | V1535 | d84a_35 | problem #35            |
| 389 | V1536 | d84a_36 | problem #36            |
| 390 | V1537 | d84a_37 | problem #37            |
| 391 | V1538 | d84a_38 | problem #38            |
| 392 | V1539 | d84a_39 | problem #39            |
| 393 | V1540 | d85     | "ckpt-""one"" in D58"  |
| 394 | V1541 | d86     | feel&prbl w/drug&alc   |
| 395 | V1542 | d86a    | feeling or drugs 1st   |
| 396 | V1543 | d87     | drugs to feel better   |
| 397 | V1544 | d87a    | drugs made R better    |
| 398 | V1545 | d88     | ckpt-B104 box checkd   |
| 399 | V1546 | d89     | feeling w/worries      |
| 400 | V1547 | d89a    | worry or feeling 1st   |
| 401 | V1548 | d89b    | feel/worry away 1st    |
| 402 | V1556 | d94     | 6mo worry w/feeling    |
| 403 | V1557 | d94a    | worry alwys w/feeling  |
| 404 | V1558 | d94b    | worry or feeling 1st   |
| 405 | V1559 | d94c    | worry/feeling away 1st |
| 406 | V1604 | e1a     | mania alwys fr drugs   |
| 407 | V1605 | e2      | ckpt-yes B7 screener   |
| 408 | V1606 | e3      | irritabl fr drug/alc   |
| 409 | V1607 | e3a     | irritbl alwys frdrug   |
| 410 | V1608 | e4      | concernd activty of R  |
| 411 | V1609 | e4a     | active w/out tired     |
| 412 | V1610 | e5      | not still/pacedup&dwn  |
| 413 | V1611 | e6      | spending sprees        |

|     |       |        |                       |
|-----|-------|--------|-----------------------|
| 414 | V1612 | e7     | sex interest stronger |
| 415 | V1613 | e8     | talked fast/all time  |
| 416 | V1614 | e9     | thoughts raced        |
| 417 | V1615 | e10    | special gift/powers   |
| 418 | V1616 | e10b   | ckpt-exampl realstc   |
| 419 | V1617 | e11    | lttle sleep/nottired  |
| 420 | V1618 | e12    | easily distracted     |
| 421 | V1619 | e13    | ckpt-2/>yesbox E4-12  |
| 422 | V1620 | e14    | ckpt-yes B6 screener  |
| 423 | V1621 | e14a   | ckpt-yes B7 screenr   |
| 424 | V1622 | e15    | feeling &manic behvr  |
| 425 | V1623 | e15a   | nevr feelw/mancbehv   |
| 426 | V1624 | e16    | tell doctor feeling   |
| 427 | V1625 | e16a   | age lxtold dr feelg   |
| 428 | V1626 | e17    | dr prscrb meds-feelg  |
| 429 | V1627 | e17a   | age lxdr prscb meds   |
| 430 | V1628 | e18    | dr advise m.h.profsl  |
| 431 | V1629 | e18a   | age lxdr advis mhpf   |
| 432 | V1630 | e19    | saw m.h.prof-spells   |
| 433 | V1631 | e19a   | age lx saw m.h.prof   |
| 434 | V1632 | e20    | othr prof abt spells  |
| 435 | V1633 | e20a   | age lx saw othrprof   |
| 436 | V1634 | e21    | evr meds >lx 4 spell  |
| 437 | V1635 | e21a   | age lx meds>lxspell   |
| 438 | V1636 | e22    | spells intrfr w/life  |
| 439 | V1637 | e23    | hospitalzd 4 spell    |
| 440 | V1638 | e23a   | age 1st hospitalzed   |
| 441 | V1639 | e24    | ckpt-1/>box E16-E23   |
| 442 | V1640 | e25    | lx spell w/manicbhvr  |
| 443 | V1641 | e26    | ext age spel w/bhvr   |
| 444 | V1642 | e26a/b | age 1stx spell        |
| 445 | V1643 | e26c   | earlst age 1x spell   |
| 446 | V1644 | e27    | lastx spell 2dys/>    |
| 447 | V1645 | e27a   | age lastx spell 2dy   |
| 448 | V1646 | e28    | #spells w/manc behvr  |
| 449 | V1651 | e29    | #time longest spell   |
| 450 | V1652 | e29    | period longest spell  |
| 451 | V1749 | e39    | spl&prbl w/drugs/alc  |
| 452 | V1750 | e39a   | spell or drugs 1st    |
| 453 | V1751 | e40    | drugs to feel better  |
| 454 | V1752 | e40a   | drugs made R better   |
| 455 | V1753 | e41    | spl&prbl w/drugs/alc  |
| 456 | V1754 | e41a   | spl&prb alwys w/drg   |
| 457 | V1755 | e41b   | spells or drugs 1st   |
| 458 | V1801 | f1     | age 1st drank alcohol |
| 459 | V1802 | f2     | 12alc drnks w/in lyr  |
| 460 | V1803 | f3     | most# drinks past12mo |
| 461 | V1804 | f4     | ckpt-# drinks in F3   |
| 462 | V1805 | f5     | 20/> drinks past 12mo |
| 463 | V1806 | f6     | 12-19drinks past 12mo |
| 464 | V1807 | f7     | 5-11 drinks past 12mo |
| 465 | V1808 | f8     | 1-4 drinks past 12mos |

|     |       |      |                       |
|-----|-------|------|-----------------------|
| 466 | V1809 | f9   | 20drnks not affect fx |
| 467 | V1810 | f10  | evermore past 12mos   |
| 468 | V1811 | f10a | age strt past 12mos   |
| 469 | V1812 | f11  | age strt drinkg most  |
| 470 | V1813 | f12  | #20/> drinks/dy-most  |
| 471 | V1814 | f13  | 12-19drinks/day-most  |
| 472 | V1815 | f14  | 5-11 drinks/day-most  |
| 473 | V1816 | f15  | 1-4 drinks/day -most  |
| 474 | V1817 | g1   | sedative on your own  |
| 475 | V1818 | g1g  | sedative prescribed   |
| 476 | V1819 | g1h  | dependnt use-sedativ  |
| 477 | V1820 | gla  | age sedativ nonmedcl  |
| 478 | V1821 | g1b  | #times taken sedativ  |
| 479 | V1822 | g1d  | lastx sedativ nonmed  |
| 480 | V1823 | gle  | freq sedativ past12mo |
| 481 | V1824 | g1f  | age last x sedative   |
| 482 | V1825 | g2   | tranquilzr on yourown |
| 483 | V1826 | g2g  | tranquilzr prescribd  |
| 484 | V1827 | g2h  | depndt use-tranquilzr |
| 485 | V1828 | g2a  | age tranquilzr nonmed |
| 486 | V1829 | g2b  | #time takn tranquilz  |
| 487 | V1830 | g2d  | lastx tranquil nonmed |
| 488 | V1831 | g2e  | freq tranqul past12mo |
| 489 | V1832 | g2f  | age lastx tranquilzr  |
| 490 | V1833 | g3   | stimulant on your own |
| 491 | V1834 | g3g  | stimulant prescribed  |
| 492 | V1835 | g3h  | depndnt use-stimulnt  |
| 493 | V1836 | g3a  | age stimulant nonmed  |
| 494 | V1837 | g3b  | #time stimulnt nonmd  |
| 495 | V1838 | g3d  | lastx stimulnt nonmd  |
| 496 | V1839 | g3e  | freq stimul past12mo  |
| 497 | V1840 | g3f  | age last x stimulant  |
| 498 | V1841 | g4   | analgesic on your own |
| 499 | V1842 | g4g  | analgesic prescribed  |
| 500 | V1843 | g4h  | dependt use-analgesc  |
| 501 | V1844 | g4a  | age analgesic nonmed  |
| 502 | V1845 | g4b  | #time analges nonmed  |
| 503 | V1846 | g4d  | lastx analges nonmed  |
| 504 | V1847 | g4e  | freq analges pst12mo  |
| 505 | V1848 | g4f  | age last x analgesic  |
| 506 | V1901 | g5   | inhalants/sniff/huffd |
| 507 | V1902 | g5a  | age lstx inhalant     |
| 508 | V1903 | g5b  | #times used inhalant  |
| 509 | V1904 | g5d  | last x used inhalant  |
| 510 | V1905 | g5e  | freq inhalnt pst12mo  |
| 511 | V1906 | g5f  | age last x inhalant   |
| 512 | V1907 | g6   | evr marijuana/hashish |
| 513 | V1908 | g6a  | age lstx marijuana    |
| 514 | V1909 | g6b  | #time used marijuana  |
| 515 | V1910 | g6d  | lastx used marijuana  |
| 516 | V1911 | g6e  | freq marijun pst12mo  |
| 517 | V1912 | g6f  | age lastx marijuana   |

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|-----|-------|--------|-----------------------|
| 518 | V1913 | g7     | ever used cocaine     |
| 519 | V1914 | g7a    | age 1stx cocaine      |
| 520 | V1915 | g7b    | #times used cocaine   |
| 521 | V1916 | g7d    | last x used cocaine   |
| 522 | V1917 | g7e    | freq cocaine pstl2mo  |
| 523 | V1918 | g7f    | age last x cocaine    |
| 524 | V1919 | g8     | evr used hallucinogen |
| 525 | V1920 | g8a    | age 1stx hallucnogen  |
| 526 | V1921 | g8b    | #time used hallucngn  |
| 527 | V1922 | g8d    | lastx used hallucngn  |
| 528 | V1923 | g8e    | freq hallucingn 12mo  |
| 529 | V1924 | g8f    | age lastx hallucnogn  |
| 530 | V1925 | g9     | ever use heroin       |
| 531 | V1926 | g9a    | age 1stx used heroin  |
| 532 | V1927 | g9b    | #times used heroin    |
| 533 | V1928 | g9d    | last x used heroin    |
| 534 | V1929 | g9e    | freq heroin pastl2mo  |
| 535 | V1930 | g9f    | age lastx usd heroin  |
| 536 | V1931 | g10    | ckpt-1/>drugs circld  |
| 537 | V2001 | g11/30 | work/child care       |
| 538 | V2002 | g30a   | alcohol during work   |
| 539 | V2003 | g30b   | age alcohol at work   |
| 540 | V2004 | g30c   | lastx alcohl atwork   |
| 541 | V2005 | g30d   | agelast alchl atwrk   |
| 542 | V2006 | g30a   | sedativ during work   |
| 543 | V2007 | g30b   | age sedativ at work   |
| 544 | V2008 | g30c   | lastx sedatv atwork   |
| 545 | V2009 | g30d   | agelast sedtv atwrk   |
| 546 | V2010 | g30a   | tranquilizr at work   |
| 547 | V2011 | g30b   | age tranquil at work  |
| 548 | V2012 | g30c   | lastx tranqu atwork   |
| 549 | V2013 | g30d   | agelast tranq atwrk   |
| 550 | V2014 | g30a   | stimulant at work     |
| 551 | V2015 | g30b   | age stimulnt atwork   |
| 552 | V2016 | g30c   | lastx stimlt atwork   |
| 553 | V2017 | g30d   | agelast stim atwork   |
| 554 | V2018 | g30a   | analgesics at work    |
| 555 | V2019 | g30b   | age analgesc atwork   |
| 556 | V2020 | g30c   | lastx analgs atwork   |
| 557 | V2021 | g30d   | agelast analg atwrk   |
| 558 | V2022 | g30a   | inhalants at work     |
| 559 | V2023 | g30b   | age inhalant atwork   |
| 560 | V2024 | g30c   | lastx inhalnt atwrk   |
| 561 | V2025 | g30d   | agelast inhal atwrk   |
| 562 | V2026 | g30a   | marijuana at work     |
| 563 | V2027 | g30b   | age marjuana atwork   |
| 564 | V2028 | g30c   | lastx mariju atwork   |
| 565 | V2029 | g30d   | agelast marij atwrk   |
| 566 | V2030 | g30a   | cocaine at work       |
| 567 | V2031 | g30b   | age cocaine at work   |
| 568 | V2032 | g30c   | lastx cocain atwork   |
| 569 | V2033 | g30d   | agelast coke atwork   |

|     |       |        |                      |
|-----|-------|--------|----------------------|
| 570 | V2034 | g30a   | hallucinogn at work  |
| 571 | V2035 | g30b   | age hallcngn atwork  |
| 572 | V2036 | g30c   | lastx halluc atwork  |
| 573 | V2037 | g30d   | agelast hallu atwrk  |
| 574 | V2038 | g30a   | heroin at work       |
| 575 | V2039 | g30b   | age heroin at work   |
| 576 | V2040 | g30c   | lastx heroin atwork  |
| 577 | V2041 | g30d   | agelast heroin-work  |
| 578 | V2101 | g12/31 | prohib.work/schol    |
| 579 | V2102 | g31a   | alcohol prohib work  |
| 580 | V2103 | g31b   | age alc prohib work  |
| 581 | V2104 | g31c   | lastx alc stop work  |
| 582 | V2105 | g31d   | agelst alc stopwork  |
| 583 | V2106 | g31a   | sedativ prohib work  |
| 584 | V2107 | g31b   | age sedtv stop work  |
| 585 | V2108 | g31c   | lastx sedtv stopwrk  |
| 586 | V2109 | g31d   | agelst sedv stopwrk  |
| 587 | V2110 | g31a   | tranquilz stop work  |
| 588 | V2111 | g31b   | age tranqu stopwork  |
| 589 | V2112 | g31c   | lastx tranq stopwrk  |
| 590 | V2113 | g31d   | agelst tranq stpwrk  |
| 591 | V2114 | g31a   | stimulant stop work  |
| 592 | V2115 | g31b   | age stimul stopwork  |
| 593 | V2116 | g31c   | lastx stimu stopwrk  |
| 594 | V2117 | g31d   | agelst stim stopwrk  |
| 595 | V2118 | g31a   | analgesic stop work  |
| 596 | V2119 | g31b   | age analges stopwrk  |
| 597 | V2120 | g31c   | lastx analg stopwrk  |
| 598 | V2121 | g31d   | agelst analg stpwrk  |
| 599 | V2122 | g31a   | inhalant stop work   |
| 600 | V2123 | g31b   | age inhahn stopwork  |
| 601 | V2124 | g31c   | lastx inhal stopwrk  |
| 602 | V2125 | g31d   | agelst inhal stpwrk  |
| 603 | V2126 | g31a   | marijuana stop work  |
| 604 | V2127 | g31b   | age mariju stopwork  |
| 605 | V2128 | g31c   | lastx marij stopwrk  |
| 606 | V2129 | g31d   | agelst marij stpwrk  |
| 607 | V2130 | g31a   | cocaine stop work    |
| 608 | V2131 | g31b   | age cocaine stopwork |
| 609 | V2132 | g31c   | lastx cocaine stpwrk |
| 610 | V2133 | g31d   | agelast cocaine work |
| 611 | V2134 | g31a   | hallucinng stopwork  |
| 612 | V2135 | g31b   | age halluc stopwork  |
| 613 | V2136 | g31c   | lastx halluc stpwrk  |
| 614 | V2137 | g31d   | agelast halluc work  |
| 615 | V2138 | g31a   | heroin stop work     |
| 616 | V2139 | g31b   | age heroin stopwork  |
| 617 | V2140 | g31c   | lastx heroin stpwrk  |
| 618 | V2141 | g31d   | agelast heroin-work  |
| 619 | V2201 | g13/32 | probl family/work    |
| 620 | V2202 | g32a   | alc prbl famly/work  |
| 621 | V2203 | g32b   | age alc family/work  |

|     |       |        |                      |
|-----|-------|--------|----------------------|
| 622 | V2204 | g32c   | last alc famly/work  |
| 623 | V2205 | g32d   | agelst alc fmlly/wrk |
| 624 | V2206 | g32e   | contin alc fmlly/wrk |
| 625 | V2207 | g32a   | sedtv prb famly/wrk  |
| 626 | V2208 | g32b   | age sedtv famly/wrk  |
| 627 | V2209 | g32c   | lastx sedtv fam/wrk  |
| 628 | V2210 | g32d   | agelst sedtvfam/wrk  |
| 629 | V2211 | g32e   | cont sedtv fam/work  |
| 630 | V2212 | g32a   | tranq prbl fam/work  |
| 631 | V2213 | g32b   | age tranqu fam/work  |
| 632 | V2214 | g32c   | lastx tranq fam/wrk  |
| 633 | V2215 | g32d   | agelst tranqfam/wrk  |
| 634 | V2216 | g32e   | cont tranqu fam/wrk  |
| 635 | V2217 | g32a   | stimlnt prb fam/wrk  |
| 636 | V2218 | g32b   | age stimuln fam/wrk  |
| 637 | V2219 | g32c   | lastx stiml fam/wrk  |
| 638 | V2220 | g32d   | agelst stim fam/wrk  |
| 639 | V2221 | g32e   | cont stimul fam/wrk  |
| 640 | V2222 | g32a   | anlgesc prb fam/wrk  |
| 641 | V2223 | g32b   | age anlgesc fam/wrk  |
| 642 | V2224 | g32c   | lastx anlgs fam/wrk  |
| 643 | V2225 | g32d   | agelst anlg fam/wrk  |
| 644 | V2226 | g32e   | cont anlgsc fam/wrk  |
| 645 | V2227 | g32a   | inhalnt prb fam/wrk  |
| 646 | V2228 | g32b   | age inhalnt fam/wrk  |
| 647 | V2229 | g32c   | lastx inhal fam/wrk  |
| 648 | V2230 | g32d   | agelst inhal fam/wk  |
| 649 | V2231 | g32e   | cont inhaln fam/wrk  |
| 650 | V2232 | g32a   | marij prbl fam/work  |
| 651 | V2233 | g32b   | age mariju fam/work  |
| 652 | V2234 | g32c   | lastx marij fam/wrk  |
| 653 | V2235 | g32d   | agelst marij fam/wk  |
| 654 | V2236 | g32e   | cont marijua fam/wk  |
| 655 | V2237 | g32a   | cocain prbl fam/wrk  |
| 656 | V2238 | g32b   | age cocaine fam/wrk  |
| 657 | V2239 | g32c   | lastx coke fam/work  |
| 658 | V2240 | g32d   | agelst coke fam/wrk  |
| 659 | V2241 | g32e   | cont cocaine fam/wrk |
| 660 | V2242 | g32a   | hallucgn prb fam/wk  |
| 661 | V2243 | g32b   | age hallucng fam/wk  |
| 662 | V2244 | g32c   | lastx halluc fam/wk  |
| 663 | V2245 | g32d   | agelst hallucfam/wk  |
| 664 | V2246 | g32e   | cont halluc fam/wrk  |
| 665 | V2247 | g32a   | heroin prbl fam/wrk  |
| 666 | V2248 | g32b   | age heroin fam/work  |
| 667 | V2249 | g32c   | lastx heroin fam/wk  |
| 668 | V2250 | g32d   | agelst heroinfam/wk  |
| 669 | V2251 | g32e   | cont heroin fam/wrk  |
| 670 | V2301 | g14/33 | expelled or fired    |
| 671 | V2302 | g33a   | alcohol expeld/fired |
| 672 | V2303 | g33b   | age alc expeld/fird  |
| 673 | V2304 | g33c   | lastx alcohol expeld |

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|-----|-------|--------|----------------------|
| 674 | V2305 | g33d   | agelast alc expeld   |
| 675 | V2306 | g33a   | sedativ expeld/fird  |
| 676 | V2307 | g33b   | age sedativ expeld   |
| 677 | V2308 | g33c   | lastx sedtv expeld   |
| 678 | V2309 | g33d   | agelast sedtvexpeld  |
| 679 | V2310 | g33a   | tranqu expeld/fired  |
| 680 | V2311 | g33b   | age tranquz expeld   |
| 681 | V2312 | g33c   | lastx tranqu expeld  |
| 682 | V2313 | g33d   | agelast tranqu expld |
| 683 | V2314 | g33a   | stimlnt expeld/fire  |
| 684 | V2315 | g33b   | age stimulnt expeld  |
| 685 | V2316 | g33c   | lastx stimln expeld  |
| 686 | V2317 | g33d   | agelast stim expeld  |
| 687 | V2318 | g33a   | anlgsic expeld/fird  |
| 688 | V2319 | g33b   | age analgesic expeld |
| 689 | V2320 | g33c   | lastx anlgsc expeld  |
| 690 | V2321 | g33d   | agelast anlgsc expl  |
| 691 | V2322 | g33a   | inhalnt expeld/fird  |
| 692 | V2323 | g33b   | age inhalant expeld  |
| 693 | V2324 | g33c   | lastx inhalnt expld  |
| 694 | V2325 | g33d   | agelast inhal expld  |
| 695 | V2326 | g33a   | marijna expeld/fird  |
| 696 | V2327 | g33b   | age marijuana expeld |
| 697 | V2328 | g33c   | lastx mariju expeld  |
| 698 | V2329 | g33d   | agelast marij expld  |
| 699 | V2330 | g33a   | cocain expeld/fired  |
| 700 | V2331 | g33b   | age cocaine expeld   |
| 701 | V2332 | g33c   | lastx cocain expeld  |
| 702 | V2333 | g33d   | agelast coke expeld  |
| 703 | V2334 | g33a   | hallcng expeld/fird  |
| 704 | V2335 | g33b   | age hallucng expeld  |
| 705 | V2336 | g33c   | lastx hallcg expeld  |
| 706 | V2337 | g33d   | agelast hallc expld  |
| 707 | V2338 | g33a   | heroin expeld/fired  |
| 708 | V2339 | g33b   | age heroin expeld    |
| 709 | V2340 | g33c   | lastx heroin expeld  |
| 710 | V2341 | g33d   | agelast heroin expl  |
| 711 | V2401 | g15/34 | chanc gettng hurt    |
| 712 | V2402 | g34a   | alcohol chance hurt  |
| 713 | V2403 | g34b   | age alcohol hurt     |
| 714 | V2404 | g34c   | lastx alcohol hurt   |
| 715 | V2405 | g34d   | agelast alcohl hurt  |
| 716 | V2406 | g34a   | sedativ chance hurt  |
| 717 | V2407 | g34b   | age sedative hurt    |
| 718 | V2408 | g34c   | lastx sedativ hurt   |
| 719 | V2409 | g34d   | agelast sedatv hurt  |
| 720 | V2410 | g34a   | tranquil chance hurt |
| 721 | V2411 | g34b   | age tranquilzr hurt  |
| 722 | V2412 | g34c   | lastx tranquilr hurt |
| 723 | V2413 | g34d   | agelast tranqu hurt  |
| 724 | V2414 | g34a   | stimlnt chance hurt  |
| 725 | V2415 | g34b   | age stimulant hurt   |

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|-----|-------|--------|----------------------|
| 726 | V2416 | g34c   | lastx stimulnt hurt  |
| 727 | V2417 | g34d   | agelast stimln hurt  |
| 728 | V2418 | g34a   | analgsc chance hurt  |
| 729 | V2419 | g34b   | age analgesic hurt   |
| 730 | V2420 | g34c   | lastx analgesc hurt  |
| 731 | V2421 | g34d   | agelast anlgsc hurt  |
| 732 | V2422 | g34a   | inhalnt chance hurt  |
| 733 | V2423 | g34b   | age inhalant hurt    |
| 734 | V2424 | g34c   | lastx inhalant hurt  |
| 735 | V2425 | g34d   | agelast inhahn hurt  |
| 736 | V2426 | g34a   | marijua chance hurt  |
| 737 | V2427 | g34b   | age marijuana hurt   |
| 738 | V2428 | g34c   | lastx marijuan hurt  |
| 739 | V2429 | g34d   | agelast mariju hurt  |
| 740 | V2430 | g34a   | cocaine chance hurt  |
| 741 | V2431 | g34b   | age cocaine hurt     |
| 742 | V2432 | g34c   | last x cocaine hurt  |
| 743 | V2433 | g34d   | agelast cocain hurt  |
| 744 | V2434 | g34a   | hallucng chanc hurt  |
| 745 | V2435 | g34b   | age hallucingn hurt  |
| 746 | V2436 | g34c   | lastx hallucgn hurt  |
| 747 | V2437 | g34d   | agelast halleg hurt  |
| 748 | V2438 | g34a   | heroin chance hurt   |
| 749 | V2439 | g34b   | age heroin hurt      |
| 750 | V2440 | g34c   | last x heroin hurt   |
| 751 | V2441 | g34d   | agelast heroin hurt  |
| 752 | V2500 | g16/35 | accidently injure    |
| 753 | V2501 | g36    | cont subst accidinjr |
| 754 | V2502 | g36a   | alc cont accidinjur  |
| 755 | V2503 | g36b   | age alc cont injure  |
| 756 | V2504 | g36a   | sedatv contin injur  |
| 757 | V2505 | g36b   | age sedtv continjur  |
| 758 | V2506 | g36a   | tranqul cont injure  |
| 759 | V2507 | g36b   | age tranq continjur  |
| 760 | V2508 | g36a   | stimuln cont injure  |
| 761 | V2509 | g36b   | age stim cont injur  |
| 762 | V2510 | g36a   | anlgesc cont injure  |
| 763 | V2511 | g36b   | age anlgs continjur  |
| 764 | V2512 | g36a   | inhalnt cont injure  |
| 765 | V2513 | g36b   | age inhal continjur  |
| 766 | V2514 | g36a   | marijua cont injure  |
| 767 | V2515 | g36b   | age marij continjur  |
| 768 | V2516 | g36a   | cocaine cont injure  |
| 769 | V2517 | g36b   | age coke continjure  |
| 770 | V2518 | g36a   | hallucng cont injur  |
| 771 | V2519 | g36b   | age hallc continjur  |
| 772 | V2520 | g36a   | heroin cont injure   |
| 773 | V2521 | g36b   | age heroin continjr  |
| 774 | V2601 | g17/37 | health problems      |
| 775 | V2602 | g37a   | alc health problems  |
| 776 | V2603 | g37b   | age alc health prbl  |
| 777 | V2604 | g37c   | lastx alc hlth prbl  |

|     |       |        |                     |
|-----|-------|--------|---------------------|
| 778 | V2605 | g37d   | agelast alc hlthprb |
| 779 | V2606 | g37a   | sedativ health prbl |
| 780 | V2607 | g37b   | age sedtv healthprb |
| 781 | V2608 | g37c   | lastx sedtv hlthprb |
| 782 | V2609 | g37d   | agelst sedtv hltprb |
| 783 | V2610 | g37a   | tranql health prbl  |
| 784 | V2611 | g37b   | age tranq hlth prbl |
| 785 | V2612 | g37c   | lastx tranq hltpb1  |
| 786 | V2613 | g37d   | agelst tranq hltpb1 |
| 787 | V2614 | g37a   | stimult health prbl |
| 788 | V2615 | g37b   | age stim healthprbl |
| 789 | V2616 | g37c   | lastx stim hlthprb1 |
| 790 | V2617 | g37d   | agelst stim hltpb1  |
| 791 | V2618 | g37a   | anlgesc healthprb1  |
| 792 | V2619 | g37b   | age anlgesc hltpb1  |
| 793 | V2620 | g37c   | lastx anlgsc hltpb1 |
| 794 | V2621 | g37d   | agelst anlgc hltpb1 |
| 795 | V2622 | g37a   | inhalant healthprb1 |
| 796 | V2623 | g37b   | age inhalnt hltpb1  |
| 797 | V2624 | g37c   | lastx inhal hltpb1  |
| 798 | V2625 | g37d   | agelst inhal hltpb1 |
| 799 | V2626 | g37a   | marijuana healthprb |
| 800 | V2627 | g37b   | age marijuan hltpb1 |
| 801 | V2628 | g37c   | lastx mariju hltpb1 |
| 802 | V2629 | g37d   | agelst marij hltpb1 |
| 803 | V2630 | g37a   | cocaine health prbl |
| 804 | V2631 | g37b   | age coke healthprb1 |
| 805 | V2632 | g37c   | lastx coke hlthprb1 |
| 806 | V2633 | g37d   | agelst coke hlthprb |
| 807 | V2634 | g37a   | hallucn health prbl |
| 808 | V2635 | g37b   | age halluc hlthprb1 |
| 809 | V2636 | g37c   | lastx halluc hltpb1 |
| 810 | V2637 | g37d   | agelst halluc hltpb |
| 811 | V2638 | g37a   | heroin health probl |
| 812 | V2639 | g37b   | age heroin hlthprb1 |
| 813 | V2640 | g37c   | lastx heroin hltpb1 |
| 814 | V2641 | g37d   | agelst heroin hltpb |
| 815 | V2701 | g18/38 | psych/emot problm   |
| 816 | V2702 | g38a   | alc psych/emot prbl |
| 817 | V2703 | g38b   | age alc psych prblm |
| 818 | V2704 | g38c   | lastx alc psych prb |
| 819 | V2705 | g38d   | agelst alc psychprb |
| 820 | V2706 | g38a   | sedativ psych probl |
| 821 | V2707 | g38b   | age sedtv psych prb |
| 822 | V2708 | g38c   | lastx sedtv psycprb |
| 823 | V2709 | g38d   | agelst sedtv psychl |
| 824 | V2710 | g38a   | tranqlz psych prbl  |
| 825 | V2711 | g38b   | age tranq psychprbl |
| 826 | V2712 | g38c   | lastx tranq psychol |
| 827 | V2713 | g38d   | agelst tranq psychl |
| 828 | V2714 | g38a   | stimulnt psych prbl |
| 829 | V2715 | g38b   | age stiml psych prb |

|     |       |        |                      |
|-----|-------|--------|----------------------|
| 830 | V2716 | g38c   | lastx stimul psychl  |
| 831 | V2717 | g38d   | agelst stiml psychl  |
| 832 | V2718 | g38a   | anlgesc psych prbl   |
| 833 | V2719 | g38b   | age anlgsc psychol   |
| 834 | V2720 | g38c   | lastx anlgsc psychl  |
| 835 | V2721 | g38d   | agelst anlgsc psych  |
| 836 | V2722 | g38a   | inhalant psych prbl  |
| 837 | V2723 | g38b   | age inhal psych prb  |
| 838 | V2724 | g38c   | lastx inhalnt psych  |
| 839 | V2725 | g38d   | agelst inhalnt psyc  |
| 840 | V2726 | g38a   | marijuan psych prbl  |
| 841 | V2727 | g38b   | age marij psych prb  |
| 842 | V2728 | g38c   | lastx marijua psych  |
| 843 | V2729 | g38d   | agelast mariju psyc  |
| 844 | V2730 | g38a   | cocaine psych probl  |
| 845 | V2731 | g38b   | age cocaine psychol  |
| 846 | V2732 | g38c   | lastx cocaine psych  |
| 847 | V2733 | g38d   | agelast coke psychl  |
| 848 | V2734 | g38a   | hallucgn psych prbl  |
| 849 | V2735 | g38b   | age hallucgn psychl  |
| 850 | V2736 | g38c   | lastx hallucgn psyc  |
| 851 | V2737 | g38d   | agelast halluc psyc  |
| 852 | V2738 | g38a   | heroin psych problm  |
| 853 | V2739 | g38b   | age heroin psychprb  |
| 854 | V2740 | g38c   | lastx heroin psychl  |
| 855 | V2741 | g38d   | agelast heroin psyc  |
| 856 | V2801 | g19/41 | drug mix w/meds      |
| 857 | V2802 | g41a   | alc mix w/medicatn   |
| 858 | V2803 | g41b   | age alc mix w/meds   |
| 859 | V2804 | g41c   | lastx alc mix w/med  |
| 860 | V2805 | g41d   | agelst alc mixw/med  |
| 861 | V2806 | g41a   | sedativ mix w/medct  |
| 862 | V2807 | g41b   | age sedativ mixw/med |
| 863 | V2808 | g41c   | last sedtv mixw/med  |
| 864 | V2809 | g41d   | agelst sedtv w/meds  |
| 865 | V2810 | g41a   | tranqulz mix w/meds  |
| 866 | V2811 | g41b   | age tranq mix w/med  |
| 867 | V2812 | g41c   | lastx tranq w/meds   |
| 868 | V2813 | g41d   | agelast tranq w/med  |
| 869 | V2814 | g41a   | stimulnt mix w/meds  |
| 870 | V2815 | g41b   | age stimulnt w/meds  |
| 871 | V2816 | g41c   | lastx stimul w/meds  |
| 872 | V2817 | g41d   | agelast stiml w/med  |
| 873 | V2818 | g41a   | anlgesc mix w/meds   |
| 874 | V2819 | g41b   | age anlgesc w/meds   |
| 875 | V2820 | g41c   | lastx anlgsc w/meds  |
| 876 | V2821 | g41d   | agelast anlgs w/med  |
| 877 | V2822 | g41a   | inhalant mix w/meds  |
| 878 | V2823 | g41b   | age inhalant w/meds  |
| 879 | V2824 | g41c   | lastx inhalnt w/med  |
| 880 | V2825 | g41d   | agelast inhal w/med  |
| 881 | V2826 | g41a   | marijuana mix w/med  |

|     |       |        |                      |
|-----|-------|--------|----------------------|
| 882 | V2827 | g41b   | age marijuana w/med  |
| 883 | V2828 | g41c   | lastx marijua w/med  |
| 884 | V2829 | g41d   | agelast marij w/med  |
| 885 | V2830 | g41a   | cocaine mix w/meds   |
| 886 | V2831 | g41b   | age cocaine w/meds   |
| 887 | V2832 | g41c   | lastx coke w/meds    |
| 888 | V2833 | g41d   | agelast coke w/meds  |
| 889 | V2834 | g41a   | hallucgn mix w/meds  |
| 890 | V2835 | g41b   | age hallucgn w/meds  |
| 891 | V2836 | g41c   | lastx halluc w/meds  |
| 892 | V2837 | g41d   | agelast halluc meds  |
| 893 | V2838 | g41a   | heroin mix w/meds    |
| 894 | V2839 | g41b   | age heroin w/meds    |
| 895 | V2840 | g41c   | lastx heroin w/meds  |
| 896 | V2841 | g41d   | agelast heroin meds  |
| 897 | V2901 | g20/42 | desire/not resist    |
| 898 | V2902 | g42a   | alcohol not resist   |
| 899 | V2903 | g42b   | age alcohol desire   |
| 900 | V2904 | g42c   | lastx alcohl desire  |
| 901 | V2905 | g42d   | agelast alc desire   |
| 902 | V2906 | g42a   | sedativ not resist   |
| 903 | V2907 | g42b   | age sedative desire  |
| 904 | V2908 | g42c   | lastx sedatv desire  |
| 905 | V2909 | g42d   | agelast sedtv desir  |
| 906 | V2910 | g42a   | tranqulz not resist  |
| 907 | V2911 | g42b   | age tranqulz desire  |
| 908 | V2912 | g42c   | lastx tranqu desire  |
| 909 | V2913 | g42d   | agelast tranq desir  |
| 910 | V2914 | g42a   | stimulant notresist  |
| 911 | V2915 | g42b   | age stimulnt desire  |
| 912 | V2916 | g42c   | lastx stimul desire  |
| 913 | V2917 | g42d   | agelast stim desire  |
| 914 | V2918 | g42a   | anlgesc not resist   |
| 915 | V2919 | g42b   | age anlgesic desire  |
| 916 | V2920 | g42c   | lastx anlgsc desire  |
| 917 | V2921 | g42d   | agelast anlgs desir  |
| 918 | V2922 | g42a   | inhalant not resist  |
| 919 | V2923 | g42b   | age inhalant desire  |
| 920 | V2924 | g42c   | lastx inhahn desire  |
| 921 | V2925 | g42d   | agelast inhal desir  |
| 922 | V2926 | g42a   | marijuana notresist  |
| 923 | V2927 | g42b   | age marijuan desire  |
| 924 | V2928 | g42c   | lastx mariju desire  |
| 925 | V2929 | g42d   | agelast marij desir  |
| 926 | V2930 | g42a   | cocaine not resist   |
| 927 | V2931 | g42b   | age cocaine desire   |
| 928 | V2932 | g42c   | lastx coke desire    |
| 929 | V2933 | g42d   | agelast coke desire  |
| 930 | V2934 | g42a   | hallucgn not resist  |
| 931 | V2935 | g42b   | age hallucgn desire  |
| 932 | V2936 | g42c   | lastx halluc desire  |
| 933 | V2937 | g42d   | agelast halluc descr |

|     |       |        |                      |
|-----|-------|--------|----------------------|
| 934 | V2938 | g42a   | heroin not resist    |
| 935 | V2939 | g42b   | age heroin desire    |
| 936 | V2940 | g42c   | lastx heroin desire  |
| 937 | V2941 | g42d   | agelast heroin descr |
| 938 | V2942 | g20a   | ckpt-alc only circl  |
| 939 | V2943 | g20b   | "form type is ""2""" |
| 940 | V3001 | g21/43 | regular drug use     |
| 941 | V3002 | g43a   | alcohol regular use  |
| 942 | V3003 | g43b   | age alc regular use  |
| 943 | V3004 | g43c   | lastx alc reglr use  |
| 944 | V3005 | g43d   | agelast alc reg.use  |
| 945 | V3006 | g43a   | sedativ regular use  |
| 946 | V3007 | g43b   | age sedtv regulruse  |
| 947 | V3008 | g43c   | lastx sedtv reg.use  |
| 948 | V3009 | g43d   | agelast sedtv reglr  |
| 949 | V3010 | g43a   | tranql regular use   |
| 950 | V3011 | g43b   | age tranqu reglruse  |
| 951 | V3012 | g43c   | lastx tranq reg.use  |
| 952 | V3013 | g43d   | agelast tranq reglr  |
| 953 | V3014 | g43a   | stimulnt regularuse  |
| 954 | V3015 | g43b   | age stimlnt reg.use  |
| 955 | V3016 | g43c   | lastx stiml reg.use  |
| 956 | V3017 | g43d   | agelast stim regulr  |
| 957 | V3018 | g43a   | anlgasic regulr use  |
| 958 | V3019 | g43b   | age anlgasic reg.use |
| 959 | V3020 | g43c   | lastx anlgs reg.use  |
| 960 | V3021 | g43d   | agelast anlgs reglr  |
| 961 | V3022 | g43a   | inhalant regularuse  |
| 962 | V3023 | g43b   | age inhalnt reg.use  |
| 963 | V3024 | g43c   | lastx inhal reg.use  |
| 964 | V3025 | g43d   | agelast inhal regul  |
| 965 | V3026 | g43a   | marijuana regulruse  |
| 966 | V3027 | g43b   | age marijua reg.use  |
| 967 | V3028 | g43c   | lastx marij reg.use  |
| 968 | V3029 | g43d   | agelast marij regul  |
| 969 | V3030 | g43a   | cocaine regular use  |
| 970 | V3031 | g43b   | age coke regulr use  |
| 971 | V3032 | g43c   | lastx coke regular   |
| 972 | V3033 | g43d   | agelast coke regulr  |
| 973 | V3034 | g43a   | hallucgn regulr use  |
| 974 | V3035 | g43b   | age hallucg reg.use  |
| 975 | V3036 | g43c   | lastx halluc regulr  |
| 976 | V3037 | g43d   | agelast halluc regl  |
| 977 | V3038 | g43a   | heroin regular use   |
| 978 | V3039 | g43b   | age heroin reglruse  |
| 979 | V3040 | g43c   | lastx heroin regulr  |
| 980 | V3041 | g43d   | agelast heroin regl  |
| 981 | V3101 | g22/44 | unable cut down      |
| 982 | V3102 | g44a   | alcohol not stop     |
| 983 | V3103 | g44b   | age alcohol not stop |
| 984 | V3104 | g44c   | lastx alchl notstop  |
| 985 | V3105 | g44d   | agelast alc notstop  |

|      |       |        |                      |
|------|-------|--------|----------------------|
| 986  | V3106 | g44a   | sedative not stop    |
| 987  | V3107 | g44b   | age sedatv not stop  |
| 988  | V3108 | g44c   | lastx sedtv notstop  |
| 989  | V3109 | g44d   | agelast sedtv nostp  |
| 990  | V3110 | g44a   | tranquilzr not stop  |
| 991  | V3111 | g44b   | age tranqu not stop  |
| 992  | V3112 | g44c   | lastx tranq notstop  |
| 993  | V3113 | g44d   | agelast tranqu nostp |
| 994  | V3114 | g44a   | stimulant not stop   |
| 995  | V3115 | g44b   | age stimlnt notstop  |
| 996  | V3116 | g44c   | lastx stiml notstop  |
| 997  | V3117 | g44d   | agelast stim nostop  |
| 998  | V3118 | g44a   | analgesic not stop   |
| 999  | V3119 | g44b   | age analgesc notstop |
| 1000 | V3120 | g44c   | lastx anlgsc nostop  |
| 1001 | V3121 | g44d   | agelast anlgs nostp  |
| 1002 | V3122 | g44a   | inhalant not stop    |
| 1003 | V3123 | g44b   | age inhalnt notstop  |
| 1004 | V3124 | g44c   | lastx inhal notstop  |
| 1005 | V3125 | g44d   | agelast inhal nostp  |
| 1006 | V3126 | g44a   | marijuana not stop   |
| 1007 | V3127 | g44b   | age mariju not stop  |
| 1008 | V3128 | g44c   | lastx marij notstop  |
| 1009 | V3129 | g44d   | agelast marij nostp  |
| 1010 | V3130 | g44a   | cocaine unable stop  |
| 1011 | V3131 | g44b   | age cocaine notstop  |
| 1012 | V3132 | g44c   | lastx cocaine nostop |
| 1013 | V3133 | g44d   | agelast coke nostop  |
| 1014 | V3134 | g44a   | hallucngen not stop  |
| 1015 | V3135 | g44b   | age halluc not stop  |
| 1016 | V3136 | g44c   | lastx halluc nostop  |
| 1017 | V3137 | g44d   | agelast halluc stop  |
| 1018 | V3138 | g44a   | heroin unable stop   |
| 1019 | V3139 | g44b   | age heroin not stop  |
| 1020 | V3140 | g44c   | lastx heroin nostop  |
| 1021 | V3141 | g44d   | agelast heroin stop  |
| 1022 | V3201 | g24/46 | >lmo use/effects     |
| 1023 | V3202 | g46a   | alc >lmo use/effect  |
| 1024 | V3203 | g46b   | age alc >lmo effect  |
| 1025 | V3204 | g46c   | lastx alc>lmo effex  |
| 1026 | V3205 | g46d   | agelast alc>lmoeffx  |
| 1027 | V3206 | g46a   | sedativ >lmo effect  |
| 1028 | V3207 | g46b   | age sedtv>lmo effex  |
| 1029 | V3208 | g46c   | lastx sedtv>lmoeffx  |
| 1030 | V3209 | g46d   | agelast sedtiv >lmo  |
| 1031 | V3210 | g46a   | tranql >lmo effexs   |
| 1032 | V3211 | g46b   | age tranqu >lmoeffex |
| 1033 | V3212 | g46c   | lastx tranqu>lmoeffx |
| 1034 | V3213 | g46d   | agelast tranqu >lmo  |
| 1035 | V3214 | g46a   | stimulnt >lmo effex  |
| 1036 | V3215 | g46b   | age stimul>lmoeffex  |
| 1037 | V3216 | g46c   | lastx stim>lmoeffex  |

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|------|-------|--------|----------------------|
| 1038 | V3217 | g46d   | agelast stimul >lmo  |
| 1039 | V3218 | g46a   | anlgesc >lmo effex   |
| 1040 | V3219 | g46b   | age anlgsc>lmoeffex  |
| 1041 | V3220 | g46c   | lastx anlgs>lmoefex  |
| 1042 | V3221 | g46d   | agelast anlgsc >lmo  |
| 1043 | V3222 | g46a   | inhalant >lmo effex  |
| 1044 | V3223 | g46b   | age inhal >lmoeffex  |
| 1045 | V3224 | g46c   | lastx inhal>lmoefffx |
| 1046 | V3225 | g46d   | agelast inhalnt>lmo  |
| 1047 | V3226 | g46a   | marijuan >lmo effex  |
| 1048 | V3227 | g46b   | age mariju>lmoeffex  |
| 1049 | V3228 | g46c   | lastx marij>lmoeffx  |
| 1050 | V3229 | g46d   | agelast mariju >lmo  |
| 1051 | V3230 | g46a   | cocaine >lmo effect  |
| 1052 | V3231 | g46b   | age cocain>lmoeffex  |
| 1053 | V3232 | g46c   | lastx cocaine>lmoefx |
| 1054 | V3233 | g46d   | agelast cocaine >lmo |
| 1055 | V3234 | g46a   | hallucgn >lmo effex  |
| 1056 | V3235 | g46b   | age halluc >lmoeffx  |
| 1057 | V3236 | g46c   | lastx halluc>lmoefx  |
| 1058 | V3237 | g46d   | agelast halluc >lmo  |
| 1059 | V3238 | g46a   | heroin >lmo effects  |
| 1060 | V3239 | g46b   | age heroin >lmoeffx  |
| 1061 | V3240 | g46c   | lastx heroin>lmoefx  |
| 1062 | V3241 | g46d   | agelast heroin >lmo  |
| 1063 | V3301 | g25/47 | more/longer time     |
| 1064 | V3302 | g47a   | alc more/longr time  |
| 1065 | V3303 | g47b   | age alc more/longer  |
| 1066 | V3304 | g47c   | lastx alc mor/longr  |
| 1067 | V3305 | g47d   | agelast alc mr/lngr  |
| 1068 | V3306 | g47a   | sedativ more/longer  |
| 1069 | V3307 | g47b   | age sedtv mor/longr  |
| 1070 | V3308 | g47c   | lastx sedtv mr/lngr  |
| 1071 | V3309 | g47d   | agelast sedtv more   |
| 1072 | V3310 | g47a   | tranql more/longer   |
| 1073 | V3311 | g47b   | age tranq mor/longr  |
| 1074 | V3312 | g47c   | lastx tranq mr/long  |
| 1075 | V3313 | g47d   | agelast tranq longr  |
| 1076 | V3314 | g47a   | stimulnt more/longr  |
| 1077 | V3315 | g47b   | age stimul mor/long  |
| 1078 | V3316 | g47c   | lastx stimul longer  |
| 1079 | V3317 | g47d   | agelast stimul more  |
| 1080 | V3318 | g47a   | anlgesc more/longer  |
| 1081 | V3319 | g47b   | age anlgsc mor/long  |
| 1082 | V3320 | g47c   | lastx anlgsc longer  |
| 1083 | V3321 | g47d   | agelast anlgs longr  |
| 1084 | V3322 | g47a   | inhalnt more/longer  |
| 1085 | V3323 | g47b   | age inhalant longer  |
| 1086 | V3324 | g47c   | lastx inhaln longer  |
| 1087 | V3325 | g47d   | agelast inhaln more  |
| 1088 | V3326 | g47a   | marijua more/longer  |
| 1089 | V3327 | g47b   | age marij mor/longr  |

|      |       |        |                      |
|------|-------|--------|----------------------|
| 1090 | V3328 | g47c   | lastx mariju longer  |
| 1091 | V3329 | g47d   | agelast mariju more  |
| 1092 | V3330 | g47a   | cocaine more/longer  |
| 1093 | V3331 | g47b   | age cocaine longer   |
| 1094 | V3332 | g47c   | lastx cocaine longr  |
| 1095 | V3333 | g47d   | agelast coke longer  |
| 1096 | V3334 | g47a   | hallucgn more/longr  |
| 1097 | V3335 | g47b   | age hallucng longer  |
| 1098 | V3336 | g47c   | lastx halluc longer  |
| 1099 | V3337 | g47d   | agelast halluc more  |
| 1100 | V3338 | g47a   | heroin more/longer   |
| 1101 | V3339 | g47b   | age heroin longer    |
| 1102 | V3340 | g47c   | lastx heroin longer  |
| 1103 | V3341 | g47d   | agelast heroin more  |
| 1104 | V3401 | g26/48 | intoxicatd/high      |
| 1105 | V3402 | g48a   | alc intoxicatd/high  |
| 1106 | V3403 | g48b   | age alc intoxicated  |
| 1107 | V3404 | g48c   | lastx alc intoxictd  |
| 1108 | V3405 | g48d   | agelast alc intoxic  |
| 1109 | V3406 | g48a   | sedative intoxicatd  |
| 1110 | V3407 | g48b   | age sedtv intoxictd  |
| 1111 | V3408 | g48c   | lastx sedtv intoxic  |
| 1112 | V3409 | g48d   | agelast sedtv intox  |
| 1113 | V3410 | g48a   | tranql intoxicated   |
| 1114 | V3411 | g48b   | age tranq intoxicat  |
| 1115 | V3412 | g48c   | lastx tranq intoxic  |
| 1116 | V3413 | g48d   | agelast tranq intox  |
| 1117 | V3414 | g48a   | stimulnt intoxicatd  |
| 1118 | V3415 | g48b   | age stimuln toxic    |
| 1119 | V3416 | g48c   | lastx stimul intoxc  |
| 1120 | V3417 | g48d   | agelast stiml intox  |
| 1121 | V3418 | g48a   | anlgsic intoxicatd   |
| 1122 | V3419 | g48b   | age anlgsc intoxict  |
| 1123 | V3420 | g48c   | lastx anlgsc intoxc  |
| 1124 | V3421 | g48d   | agelast anlgs intox  |
| 1125 | V3422 | g48a   | inhalant intoxicatd  |
| 1126 | V3423 | g48b   | age inhalnt toxic    |
| 1127 | V3424 | g48c   | lastx inhalnt intox  |
| 1128 | V3425 | g48d   | agelast inhal intox  |
| 1129 | V3426 | g48a   | marijuana intoxicatd |
| 1130 | V3427 | g48b   | age marijua toxic    |
| 1131 | V3428 | g48c   | lastx marij toxic    |
| 1132 | V3429 | g48d   | agelast marij intox  |
| 1133 | V3430 | g48a   | cocaine intoxicated  |
| 1134 | V3431 | g48b   | age cocaine toxic    |
| 1135 | V3432 | g48c   | lastx cocaine intox  |
| 1136 | V3433 | g48d   | agelast coke intoxc  |
| 1137 | V3434 | g48a   | hallucingn intoxict  |
| 1138 | V3435 | g48b   | age hallucg toxic    |
| 1139 | V3436 | g48c   | lastx halluc intoxc  |
| 1140 | V3437 | g48d   | agelast halluc intx  |
| 1141 | V3438 | g48a   | heroin intoxicated   |

|      |       |        |                      |
|------|-------|--------|----------------------|
| 1142 | V3439 | g48b   | age heroin intoxict  |
| 1143 | V3440 | g48c   | lastx heroin intoxc  |
| 1144 | V3441 | g48d   | agelast heroin intx  |
| 1145 | V3501 | g27/49 | more-same effect     |
| 1146 | V3502 | g49a   | alc more-same effex  |
| 1147 | V3503 | g49b   | age alc more 4 same  |
| 1148 | V3504 | g49c   | lastx alc more-same  |
| 1149 | V3505 | g49d   | agelast alc more-sm  |
| 1150 | V3506 | g49a   | sedtv more-sameeffx  |
| 1151 | V3507 | g49b   | age sedtv more-same  |
| 1152 | V3508 | g49c   | lastx sedtv more-sm  |
| 1153 | V3509 | g49d   | agelast sedtv-more   |
| 1154 | V3510 | g49a   | tranq more-sameeffx  |
| 1155 | V3511 | g49b   | age tranq more-same  |
| 1156 | V3512 | g49c   | lastx tranq more-sm  |
| 1157 | V3513 | g49d   | agelast tranq more   |
| 1158 | V3514 | g49a   | stiml more-sameeffx  |
| 1159 | V3515 | g49b   | age stiml more-same  |
| 1160 | V3516 | g49c   | lastx stim more-sam  |
| 1161 | V3517 | g49d   | agelast stimul more  |
| 1162 | V3518 | g49a   | anlgs more-sameeffx  |
| 1163 | V3519 | g49b   | age anlgs more-same  |
| 1164 | V3520 | g49c   | lastx anlg more-sam  |
| 1165 | V3521 | g49d   | agelast anlgsc more  |
| 1166 | V3522 | g49a   | inhal more-sameeffx  |
| 1167 | V3523 | g49b   | age inhal more-same  |
| 1168 | V3524 | g49c   | lastx inhal more-sm  |
| 1169 | V3525 | g49d   | agelast inhahn more  |
| 1170 | V3526 | g49a   | marij more-sameeffx  |
| 1171 | V3527 | g49b   | age marij more-same  |
| 1172 | V3528 | g49c   | lastx marij more-sm  |
| 1173 | V3529 | g49d   | agelast mariju more  |
| 1174 | V3530 | g49a   | cocain more-sameeffx |
| 1175 | V3531 | g49b   | age cocain more-sam  |
| 1176 | V3532 | g49c   | lastx cocaine more   |
| 1177 | V3533 | g49d   | agelast cocaine more |
| 1178 | V3534 | g49a   | halluc more-sameeffx |
| 1179 | V3535 | g49b   | age halluc more-sam  |
| 1180 | V3536 | g49c   | lastx hallucgn more  |
| 1181 | V3537 | g49d   | agelast halluc more  |
| 1182 | V3538 | g49a   | heroin more-sameeffx |
| 1183 | V3539 | g49b   | age heroin more-sam  |
| 1184 | V3540 | g49c   | lastx heroin more    |
| 1185 | V3541 | g49d   | agelast heroin more  |
| 1186 | V3601 | g28/50 | stop-cause illnes    |
| 1187 | V3602 | g50a   | alc stop caus illns  |
| 1188 | V3603 | g50b   | age alc caus illnes  |
| 1189 | V3604 | g50c   | lastx alc caus illn  |
| 1190 | V3605 | g50d   | agelast alc illness  |
| 1191 | V3606 | g50a   | sedtv cause illness  |
| 1192 | V3607 | g50b   | age sedtv caus illn  |
| 1193 | V3608 | g50c   | lastx sedtv illness  |

|      |       |        |                         |
|------|-------|--------|-------------------------|
| 1194 | V3609 | g50d   | agelast tranq illns     |
| 1195 | V3610 | g50a   | tranq cause illness     |
| 1196 | V3611 | g50b   | age tranq caus illn     |
| 1197 | V3612 | g50c   | lastx tranq illness     |
| 1198 | V3613 | g50d   | agelast tranq illns     |
| 1199 | V3614 | g50a   | stimul caus illness     |
| 1200 | V3615 | g50b   | age stimul caus ill     |
| 1201 | V3616 | g50c   | lastx stimul illnes     |
| 1202 | V3617 | g50d   | agelast stimul illn     |
| 1203 | V3618 | g50a   | anlgsc caus illness     |
| 1204 | V3619 | g50b   | age anlgs caus illn     |
| 1205 | V3620 | g50c   | lastx anlgs caus il     |
| 1206 | V3621 | g50d   | agelast anlgsc illn     |
| 1207 | V3622 | g50a   | inhalnt caus illnes     |
| 1208 | V3623 | g50b   | age inhal caus illn     |
| 1209 | V3624 | g50c   | lastx inhal causill     |
| 1210 | V3625 | g50d   | agelast inhal illns     |
| 1211 | V3626 | g50a   | mariju caus illness     |
| 1212 | V3627 | g50b   | age marij caus illn     |
| 1213 | V3628 | g50c   | lastx marij causill     |
| 1214 | V3629 | g50d   | agelast marij illns     |
| 1215 | V3630 | g50a   | cocain caus illness     |
| 1216 | V3631 | g50b   | age coke caus illns     |
| 1217 | V3632 | g50c   | lastx coke caus ill     |
| 1218 | V3633 | g50d   | agelast coke illnes     |
| 1219 | V3634 | g50a   | halluc caus illness     |
| 1220 | V3635 | g50b   | age halluc caus ill     |
| 1221 | V3636 | g50c   | lastx halluc illnes     |
| 1222 | V3637 | g50d   | agelast halluc illn     |
| 1223 | V3638 | g50a   | heroin causd illnes     |
| 1224 | V3639 | g50b   | age heroin caus ill     |
| 1225 | V3640 | g50c   | lastx heroin illnes     |
| 1226 | V3641 | g50d   | agelast heroin illn     |
| 1227 | V3642 | g51    | w/drawal sxs go away    |
| 1228 | V3643 | g51a   | alcohol w/drawal sxs    |
| 1229 | V3644 | g51a   | sedtiv w/drawal sxs     |
| 1230 | V3645 | g51a   | tranqu w/withdrawal sxs |
| 1231 | V3646 | g51a   | stimul w/withdrawal sxs |
| 1232 | V3647 | g51a   | anlgsc w/withdrawal sxs |
| 1233 | V3648 | g51a   | inhahn w/withdrawal sxs |
| 1234 | V3649 | g51a   | mariju w/withdrawal sxs |
| 1235 | V3650 | g51a   | cocain w/withdrawal sxs |
| 1236 | V3651 | g51a   | halluc w/withdrawal sxs |
| 1237 | V3652 | g51a   | heroin w/withdrawal sxs |
| 1238 | V3701 | g29/52 | reducdr activities      |
| 1239 | V3702 | g52a   | alc reducdr activits    |
| 1240 | V3703 | g52b   | age alc reduc activ     |
| 1241 | V3704 | g52c   | lastx alc reduc act     |
| 1242 | V3705 | g52d   | agelast alc reduced     |
| 1243 | V3706 | g52a   | sedtv reduc activit     |
| 1244 | V3707 | g52b   | age sedtv reduc act     |
| 1245 | V3708 | g52c   | lastx sedtv reduced     |

|      |       |      |                      |
|------|-------|------|----------------------|
| 1246 | V3709 | g52d | agelast sedtv reduc  |
| 1247 | V3710 | g52a | tranq reduc activit  |
| 1248 | V3711 | g52b | age tranq reduc act  |
| 1249 | V3712 | g52c | lastx tranq reduced  |
| 1250 | V3713 | g52d | agelast tranq reduc  |
| 1251 | V3714 | g52a | stimul reduc activs  |
| 1252 | V3715 | g52b | age stim reduc acts  |
| 1253 | V3716 | g52c | lastx stimul reducd  |
| 1254 | V3717 | g52d | agelast stim reducd  |
| 1255 | V3718 | g52a | anlgsc reduc activs  |
| 1256 | V3719 | g52b | age anlgs reduc act  |
| 1257 | V3720 | g52c | lastx anlg reduact   |
| 1258 | V3721 | g52d | agelast anlgs reduc  |
| 1259 | V3722 | g52a | inhal reduc activit  |
| 1260 | V3723 | g52b | age inhal reduc act  |
| 1261 | V3724 | g52c | lastx inhalnt reduc  |
| 1262 | V3725 | g52d | agelast inhal reduc  |
| 1263 | V3726 | g52a | mariju reduc activs  |
| 1264 | V3727 | g52b | age marij reduc act  |
| 1265 | V3728 | g52c | lastx marijua reduc  |
| 1266 | V3729 | g52d | agelast marij reduc  |
| 1267 | V3730 | g52a | cocain reduc activs  |
| 1268 | V3731 | g52b | age coke reduc acts  |
| 1269 | V3732 | g52c | lastx coke reducact  |
| 1270 | V3733 | g52d | agelast coke reducd  |
| 1271 | V3734 | g52a | halluc reduc activs  |
| 1272 | V3735 | g52b | age halluc reducact  |
| 1273 | V3736 | g52c | lastx halluc reducd  |
| 1274 | V3737 | g52d | agelast halluc redu  |
| 1275 | V3738 | g52a | heroin reduc activs  |
| 1276 | V3739 | g52b | age heroin reducact  |
| 1277 | V3740 | g52c | lastx heroin reducd  |
| 1278 | V3741 | g52d | agelast heroin redu  |
| 1279 | V3742 | g53  | tell dr subst abuse  |
| 1280 | V3743 | g53a | age 1st told doctor  |
| 1281 | V3744 | g54  | dr prescrb mediction |
| 1282 | V3745 | g54a | age 1st prescription |
| 1283 | V3746 | g55  | dr advise m.h.profsl |
| 1284 | V3747 | g55a | age 1st advis mhprf  |
| 1285 | V3748 | g56  | refer treatment prog |
| 1286 | V3749 | g56a | age treatment progr  |
| 1287 | V3750 | g57  | meds >1x 4 substabus |
| 1288 | V3751 | g57a | age med>1 substabus  |
| 1289 | V3752 | g58  | see m.h.prof substnc |
| 1290 | V3753 | g58a | age saw m.h. profsl  |
| 1291 | V3754 | g59  | see other professnl  |
| 1292 | V3755 | g59a | age saw other profs  |
| 1293 | V3756 | g60  | self-help group      |
| 1294 | V3757 | g60a | age self-help group  |
| 1295 | V3803 | none | sum of v3801 (h8)    |
| 1296 | V3804 | h15  | ckpt-H14 sum on rowC |
| 1297 | V3805 | h16  | behavr fr alch/drugs |

|      |       |        |                       |
|------|-------|--------|-----------------------|
| 1298 | V3806 | h16a   | bhvr alwys alc/drug   |
| 1299 | V3807 | h26    | #yes bottom of sheet  |
| 1300 | V3808 | h27    | behavr fr alch/drugs  |
| 1301 | V3809 | h27a   | bhvr alwys alc/drug   |
| 1302 | V3810 | h28    | ckpt-E29 box checked  |
| 1303 | V3811 | h29    | behavrs evr w/mania   |
| 1304 | V3812 | h29a   | bhvr alwys w/drugs    |
| 1305 | V4101 | k1/14  | spying/following R    |
| 1306 | V4102 | k14b   | K14a exs realistic    |
| 1307 | V4103 | k2/15  | poison/hurt R         |
| 1308 | V4104 | k15b   | K15a exs realistic    |
| 1309 | V4105 | k3/16  | reading R's mind      |
| 1310 | V4106 | k16a   | knew thought/guessd   |
| 1311 | V4107 | k16c   | K16b exs realistic    |
| 1312 | V4108 | k4/17  | hear R's thoughts     |
| 1313 | V4109 | k17b   | K17a exs realistic    |
| 1314 | V4110 | k5/18  | hear othrs thought    |
| 1315 | V4111 | k18b   | K18a exs realistic    |
| 1316 | V4112 | k6/19  | controlld by force    |
| 1317 | V4113 | k19b   | K19a exs realistic    |
| 1318 | V4114 | k7/20  | othr stole thought    |
| 1319 | V4115 | k20b   | K20a exs realistic    |
| 1320 | V4116 | k8/k21 | special messg/tv      |
| 1321 | V4117 | k21b   | K21a exs realistic    |
| 1322 | V4118 | k9/22  | hypnotz/magic/forc    |
| 1323 | V4119 | k22b   | K22a exs realistic    |
| 1324 | V4120 | k10/23 | saw visions           |
| 1325 | V4121 | k23b   | K23a exs realistic    |
| 1326 | V4122 | k11/24 | heard noise/voice     |
| 1327 | V4123 | k24b   | hear voice >few min   |
| 1328 | V4124 | k24c   | K24a exs realistic    |
| 1329 | V4125 | k25    | voice mentioned K24a  |
| 1330 | V4126 | k26    | hear voic othr didnt  |
| 1331 | V4127 | k27    | herd voice from body  |
| 1332 | V4128 | k28    | voic commentd action  |
| 1333 | V4129 | k29    | heard 2 or > voices   |
| 1334 | V4130 | k30    | voices discussing R   |
| 1335 | V4131 | k31    | conversation w/voics  |
| 1336 | V4132 | k32    | see vision w/voices   |
| 1337 | V4133 | k12/33 | smells/body odors     |
| 1338 | V4134 | k33b   | K33a exs realistic    |
| 1339 | V4135 | k13/34 | feeling in/on body    |
| 1340 | V4331 | k56a   | expr alwys w/anxiet   |
| 1341 | V4332 | k56b   | anxiety/expernc 1st   |
| 1342 | V4333 | k56c   | anxity/expr awaylst   |
| 1343 | V4334 | k57    | d40/d81 chk ref card  |
| 1344 | V4335 | k57a   | e29 checkd ref card   |
| 1345 | V4336 | k57b   | e29 checkd ref card   |
| 1346 | V4337 | k58    | feeling/experienc 1st |
| 1347 | V4338 | k59    | feeling samex expernc |
| 1348 | V4339 | k59a   | feel/expr samex 2wk   |
| 1349 | V4340 | k59b   | feeling/expr awaylst  |

|      |       |      |                        |
|------|-------|------|------------------------|
| 1350 | V4341 | k59c | exp w/out feel 2wks    |
| 1351 | V4503 | m3   | excl reln lastd lyr/>  |
| 1352 | V4504 | m4   | #time living together  |
| 1353 | V4505 | m4   | timeunit livng togeth  |
| 1354 | V4506 | m5   | satisfactn w/relatnsp  |
| 1355 | V4507 | m6   | #times married lifetm  |
| 1356 | V4508 | m6a  | #marrg divrc/annulmt   |
| 1357 | V4509 | m7   | year 1st time married  |
| 1358 | V4510 | m7a  | month 1stx married     |
| 1359 | V4511 | m8   | #length knw lstspouse  |
| 1360 | V4512 | m8   | timeunit knw lstspous  |
| 1361 | V4513 | m9   | rellyr/> b4 lstspouse  |
| 1362 | V4514 | m10  | r married only once    |
| 1363 | V4515 | m11  | r marriage status      |
| 1364 | V4516 | m12  | yr 1st marriag ended   |
| 1365 | V4517 | m12a | mo 1st marrge ended    |
| 1366 | V4518 | m13  | 1st marrg-divrc/widw   |
| 1367 | V4519 | m14  | excl lyr/> rel since   |
| 1368 | V4520 | m15  | R marital status       |
| 1369 | V4521 | m16  | yr maried spouse now   |
| 1370 | V4522 | m16a | mo maried spous now    |
| 1371 | V4523 | m17  | marital satisfaction   |
| 1372 | V4524 | m18  | yr separatd recently   |
| 1373 | V4525 | m18a | mo sepratd recently    |
| 1374 | V4526 | m19  | who decided separate   |
| 1375 | V4527 | m20  | yr divorce official    |
| 1376 | V4528 | m20a | mo divorce official    |
| 1377 | V4628 | m41  | excl rel lastd lyr/>   |
| 1378 | V6101 | u1   | #lwar combat experien  |
| 1379 | V6102 | u2   | #2lifethreatng accidn  |
| 1380 | V6103 | u2a  | age 1st threat accid   |
| 1381 | V6104 | u3   | #3fire/flood/nataccid  |
| 1382 | V6105 | u3a  | age 1st fire/flood     |
| 1383 | V6106 | u3b  | fire/flood past 12mo   |
| 1384 | V6107 | u3c  | mo recent fire/flood   |
| 1385 | V6108 | u3c  | yr recent fire/flood   |
| 1386 | V6109 | u4   | #4saw injury/killing   |
| 1387 | V6110 | u4a  | age 1stsaw injur/kil   |
| 1388 | V6111 | u4b  | saw injur/kill 12mo    |
| 1389 | V6112 | u4c  | mo recent injur/kill   |
| 1390 | V6113 | u4c  | yr recent injur/kill   |
| 1391 | V6114 | u5   | #5 raped               |
| 1392 | V6115 | u5a  | age 1st rape           |
| 1393 | V6116 | u5b  | rape in past 12month   |
| 1394 | V6117 | u5c  | mo most recent rape    |
| 1395 | V6118 | u5c  | yr most recent rape    |
| 1396 | V6119 | u5d  | rape isolatd/repeatd   |
| 1397 | V6120 | u5e  | #howlong rape contin   |
| 1398 | V6121 | u5e  | timeunit rape contin   |
| 1399 | V6122 | u5f  | a. Relative raped R    |
| 1400 | V6123 | u5f  | b. Step-relativ rapedr |
| 1401 | V6124 | u5f  | c. Someone else R knew |

|      |       |      |                       |
|------|-------|------|-----------------------|
| 1402 | V6125 | u5f  | d. Stranger raped R   |
| 1403 | V6126 | u6   | #6 sexually molested  |
| 1404 | V6127 | u6a  | age 1st sex molested  |
| 1405 | V6128 | u6b  | sex molestd past12mo  |
| 1406 | V6129 | u6c  | mo recent sex molest  |
| 1407 | V6130 | u6c  | yr recent sex molest  |
| 1408 | V6131 | u6d  | molest isolat/repeat  |
| 1409 | V6132 | u6e  | #howlong molest cont  |
| 1410 | V6133 | u6e  | timeunit molest cont  |
| 1411 | V6134 | u6f  | a.Relative molestd R  |
| 1412 | V6135 | u6f  | b.Steprelatv molestr  |
| 1413 | V6136 | u6f  | c.Someone else R knew |
| 1414 | V6137 | u6f  | d.Stranger molestd R  |
| 1415 | V6138 | u7   | #7 phys attak/assault |
| 1416 | V6139 | u7a  | age 1st phys assault  |
| 1417 | V6140 | u7b  | assault past 12 mont  |
| 1418 | V6141 | u7c  | mo recent assaulted   |
| 1419 | V6142 | u7c  | yr recent assaulted   |
| 1420 | V6143 | u8   | #8 physabuse as child |
| 1421 | V6144 | u9   | #9 neglected as child |
| 1422 | V6145 | u10  | #10captV/kidnap/weap  |
| 1423 | V6146 | u10a | age 1st kidnap/capt   |
| 1424 | V6201 | u11  | othr terrible expern  |
| 1425 | V6202 | ulla | #1terrible experinc   |
| 1426 | V6203 | ulla | #2terrible experinc   |
| 1427 | V6204 | ullb | age 1stterrbl exper   |
| 1428 | V6205 | ullc | othr terribl expern   |
| 1429 | V6206 | ulld | #1terrible experien   |
| 1430 | V6207 | ulld | #2terrible experien   |
| 1431 | V6208 | ulle | age exper 1stoccurd   |
| 1432 | V6209 | ul2  | #12shock exper other  |
| 1433 | V6210 | ul2a | # of worst event      |
| 1434 | V6211 | ul2b | #1 person event       |
| 1435 | V6212 | ul2b | #2 person event       |
| 1436 | V6213 | ul2c | age learnd of event   |
| 1437 | V6214 | none | work variable         |
| 1438 | V6215 | ul3  | only 1 yes box u1-12  |
| 1439 | V6216 | ul4  | most upsetting exper  |
| 1440 | V6217 | ul6  | kept remembrng event  |
| 1441 | V6218 | ul7  | dream/nightmar event  |
| 1442 | V6219 | ul8  | felt event occurring  |
| 1443 | V6220 | ul9  | upset w/situ remindr  |
| 1444 | V6221 | u20  | 1/> yes box u16-u19   |
| 1445 | V6222 | u21  | no longer love/warm   |
| 1446 | V6223 | u22  | avoid remindr situat  |
| 1447 | V6224 | u23  | try not to thinkofit  |
| 1448 | V6225 | u24  | memory blank ofevent  |
| 1449 | V6226 | u25  | feel isolatd/distant  |
| 1450 | V6227 | u26  | no point think futur  |
| 1451 | V6228 | u27  | lose interst inthing  |
| 1452 | V6229 | none | work variable         |
| 1453 | V6230 | u28  | 3/> yes box u21-u27   |

|      |       |         |                       |
|------|-------|---------|-----------------------|
| 1454 | V6231 | u29     | trouble concentratng  |
| 1455 | V6232 | u30     | irritabl/lose temper  |
| 1456 | V6233 | u31     | trouble sleeping      |
| 1457 | V6234 | u32     | overly careful        |
| 1458 | V6235 | u33     | jumpy/easily startled |
| 1459 | V6236 | u34     | sweat/heart beatfast  |
| 1460 | V6237 | none    | work variable         |
| 1461 | V6238 | u35     | 2/> yes box u29-u34   |
| 1462 | V6239 | u36     | #day rxns aftr exper  |
| 1463 | V6240 | u36     | timeunit rxns after   |
| 1464 | V6241 | u37     | #day cont reactions   |
| 1465 | V6242 | u37     | timeunit cont reactn  |
| 1466 | V6243 | u38     | last had reactions    |
| 1467 | V7301 | e35     | anything cause mania  |
| 1468 | V7302 | e36_01  | #1period durng spell  |
| 1469 | V7303 | e36_02  | #2period durng spell  |
| 1470 | V7304 | e36_03  | #3period durng spell  |
| 1471 | V7305 | e36_04  | #4period durng spell  |
| 1472 | V7306 | e36_05  | #5period durng spell  |
| 1473 | V7307 | e36_06  | #6period durng spell  |
| 1474 | V7308 | e36_07  | #7period durng spell  |
| 1475 | V7309 | e36_08  | #8period durng spell  |
| 1476 | V7310 | e36_09  | #9period durng spell  |
| 1477 | V7311 | e37     | due to meds/drug/alc  |
| 1478 | V7312 | e37a_01 | #1period by drg/alc   |
| 1479 | V7313 | e37a_02 | #2period by drg/alc   |
| 1480 | V7314 | e37a_03 | #3period by drg/alc   |
| 1481 | V7315 | e37a_04 | #4period by drg/alc   |
| 1482 | V7316 | e37a_05 | #5period by drg/alc   |
| 1483 | V7317 | e37a_06 | #6period by drg/alc   |
| 1484 | V7318 | e37a_07 | #7period by drg/alc   |
| 1485 | V7319 | e37a_08 | #8period by drg/alc   |
| 1486 | V7320 | e37a_09 | #9period by drg/alc   |
| 1487 | V7403 | cc1     | use a.Cgt daily/mo+   |
| 1488 | V7404 | cc2     | age fst rg use a.Cgt  |
| 1489 | V7405 | cc3     | #/da most use a.Cgt   |
| 1490 | V7406 | cc4     | last reg use a.Cgt    |
| 1491 | V7407 | cc5     | age last reg a.Cgt    |
| 1492 | V7408 | cc1     | use b.Cgr daily/mo+   |
| 1493 | V7409 | cc2     | age fst rg use b.Cgr  |
| 1494 | V7410 | cc3     | #/da most use b.Cgr   |
| 1495 | V7411 | cc4     | last reg use b.Cgr    |
| 1496 | V7412 | cc5     | age last reg b.Cgr    |
| 1497 | V7413 | cc1     | use c.Pip daily/mo+   |
| 1498 | V7414 | cc2     | age fst rg use c.Pip  |
| 1499 | V7415 | cc3     | #/da most use c.Pip   |
| 1500 | V7416 | cc4     | last reg use c.Pip    |
| 1501 | V7417 | cc5     | age last reg c.Pip    |
| 1502 | V7418 | cc1     | use d.Chw daily/mo+   |
| 1503 | V7419 | cc2     | age fst rg use d.Chw  |
| 1504 | V7420 | cc3     | #/da most use d.Chw   |
| 1505 | V7421 | cc4     | last reg use d.Chw    |

|      |       |       |                      |
|------|-------|-------|----------------------|
| 1506 | V7422 | cc5   | age last reg d.Chw   |
| 1507 | V7423 | cc6   | iw checkpoint        |
| 1508 | V7424 | cc7   | #tim quit/cut 2wks+  |
| 1509 | V7425 | cc8   | probs when quit/cut  |
| 1510 | V7426 | cc8a  | #days prob lasted    |
| 1511 | V7427 | cc8b  | prob sev times?      |
| 1512 | V7428 | cc8c  | start again          |
| 1513 | V7429 | cc9   | continue to use      |
| 1514 | V7430 | cc10  | cause health probs   |
| 1515 | V7431 | cc10a | continue-health      |
| 1516 | V7432 | cc11  | emot/mental probs    |
| 1517 | V7433 | cc11a | continue=emot/ment   |
| 1518 | V7434 | cc12  | unable quit/cut      |
| 1519 | V7435 | cc12a | unable quit mult     |
| 1520 | V7436 | cc13  | more than intend     |
| 1521 | V7437 | cc14  | reg-would not chg    |
| 1522 | V7438 | cc15  | give up activities   |
| 1523 | V7439 | cc15a | repeatedly give up   |
| 1524 | V7440 | cc16  | iw checkpoint        |
| 1525 | V7441 | cc17  | age first problems   |
| 1526 | V7442 | cc18  | last had problems    |
| 1527 | nap50 | none  | non-affective psycho |

## Appendix C

### Construction of Diagnostic Variables

#### 1. Available syndromes

The public use tape contains diagnostic variables, typically coded yes-no, with age of onset and recent codes, for the following DSM-III-R syndromes:

Mood disorders: Major depressive episode, Manic episode, Dysthymia (300.40)

Anxiety disorders: Panic disorder with (300.21) or without (300.01) agoraphobia, Agoraphobia, Social phobia (300.23), Simple phobia (300.29), Generalized anxiety disorder (300.02)

Addictive disorders: Alcohol abuse (305.00), Alcohol Dependence (303.90), Abuse (305.XX) of at least one of the following classes of drugs ( ), Dependence (303.XX) on at least one of the same classes of drugs

Other disorders: Conduct disorder (CD), Adult antisocial behavior (AAB), Antisocial personality disorder (ASPD; 301.70). CD and AAB are criteria of ASPD.

#### 2. Syndromes and disorders

You will note that some of the syndromes listed above contain DSM-III-R diagnostic numbers while others do not. This is because only the syndromes with numbers are disorders. The others are syndromes that may or may not be disorders depending on other information.

In an effort to maintain as much flexibility as possible in the public use tape, the data have been coded in this two-part approach so that you can examine the data at the syndrome level. The relevant issues are as follows.

a. Mania-Depression: DSM-III-R defines manic episodes and depressive episodes as syndromes that go into the definitions of bipolar disorder (296.XX) and major depressive disorder (296.XX). You should refer to DSM-III-R for the exact definitions, but the basic distinction is that a diagnosis of bipolar disorder

requires at least one manic episode but does not require the respondent ever to have had a depressive episode, while a diagnosis of major depressive disorder requires at least one major depressive episode and requires that the respondent has never had a manic episode. By providing data at the syndrome level in the public use tape, we make it possible for you either to study the epidemiology of the syndromes or to combine the syndromes to generate diagnoses, as you prefer. It is important to note, however, that we have not generated diagnoses of bipolar disorder or major depressive disorder on the tape.

b. Panic-Agoraphobia: DSM-III-R distinguishes panic with agoraphobia from panic without agoraphobia. It also distinguishes agoraphobia without panic (which is a DSM-III-R disorder) from agoraphobia with panic (which is not a DSM-III-R disorder). We do not make these distinctions on the public use tape. Instead, we provide separate information on whether the respondent meets criteria for panic disorder with or without agoraphobia and meets criteria for agoraphobia with or without panic. This allows you to study these syndromes or to cross-classify the syndromes to define disorders.

c. Abuse-Dependence: DSM-III-R stipulates that a person no longer receives a diagnosis of substance abuse once he or she meets criteria for dependence on that same substance. However, it is possible for a person to have had a diagnosis of abuse prior to the age of being dependent. In order to capture this fact, our file provides lifetime diagnoses of both abuse and dependence without the hierarchy restriction. You need to check the ages of onset to know whether there was ever a time when the respondent met criteria for abuse without dependence.

### 3. Imputing values

Although the diagnostic computer programs were used to generate all diagnoses, there were a number of instances where additional information was used as well either to define cases or to define ages of onset or ages of offset. As a result, mechanical use of the diagnostic programs will not always generate the same results as those in the diagnosis files. The following discussion reviews these instances:

a. Mania: There was one missing case for age of onset and this was imputed using hot deck imputation.

b. Major Depression: four cases had missing information on onset and five more on onset age. Four had missing data on recency and 25 on recency age. The large number missing recency age is due to a skip error in the interview schedule that was not caught until data collection had started. We attempted to recontact all respondents to fill in this missing information and those that we could not recontact were imputed using the hot deck method.

c. Dysthymia: Eight cases were missing either onset or recency and were imputed using hot deck imputation.

d. Agoraphobia: Ancillary information from open-ended responses to the simple phobia section was used to assign 13 cases a diagnosis of agoraphobia using their onset and recency ages from the simple phobia section. In addition, a skip error in the NCS that was not found until the end of fieldwork led to 175 cases being missing on onset and recency data. A regression-based imputation scheme was used to generate imputation classes and hit deck imputation was used within these classes to fill in this missing information.

e. Simple phobia: An additional 60 cases would be classified as meeting criteria for this diagnosis if information on open-ended responses to the B49k question were not used. The onset and recency ages were either taken from the simple phobia section or imputed using a hot deck method.

f. Social phobia: If information on open-ended responses to the simple phobia questions were not used, 18 cases would be classified as meeting criteria for social phobia. Onset and recency data were either taken from the simple phobia responses or imputed.

f. Panic disorder: Four cases were imputed for missing data on either age of onset or recency.