Appendix table 1. Prevalence of sleep problems in the total population and prevalence of any Insomnia among those with a sleep problem by age

Insomnia Symptoms	Prevalence of any sleep problem among the total population		Prevalence of any Insomnia among those with a sleep problem	
	%	SE	%	SE
18-29	37.1	1.1	73.4	1.7
30-44	64.2	1.5	68.5	1.4
45-64	58.0	1.4	62.2	1.3
65+	51.4	2.1	58.0	2.0
Total	61.2	0.8	65.6	0.8

Appendix table 2. Criteria responsible for lack of concordance between diagnoses based on the three different systems

I. DSM-IV-TR criteria failed by cases in the other systems who do not meet full DSM-IV-TR criteria

	DSM-IV-TR		ICD-10[1]		RDC	
	%	SE	%	SE	%	SE
A	-	-	-	-	0.0	0.00
B	-	-	-	-	100	0.00
A-only	-	-	-	-	0.0	0.00
B-only	-	-	-	-	100	0.00
A and B	-	-	-	-	0.0	0.00
(n)	-		-		160	

II.ICD-10 criteria failed by cases in the other systems who do not meet full ICD-10 criteria

	%	SE	%	SE	%	SE
A	0.0	0.0	-	-	0.0	0.0
B	0.0	0.0	-	-	0.0	0.0
C	96.4	0.4	-	-	93.7	0.7
D	46.3	1.2	-	-	35.4	1.4
A-only	0.0	0.0	-	-	0.0	0.0
B-only	0.0	0.0	-	-	0.0	0.0
C-only	53.7	1.2	-	-	64.6	1.4
D-only	3.6	0.4	-	-	6.3	0.7
A and B	0.0	0.0	-	-	0.0	0.0
A and C	0.0	0.0	-	-	0.0	0.0
A and D	0.0	0.0	-	-	0.0	0.0
B and C	0.0	0.0	-	-	0.0	0.0
B and D	0.0	0.0	-	-	0.0	0.0
C and D	42.7	1.2	-	-	29.0	1.3
A, B, and C	0.0	0.0	-	-	0.0	0.0
A, B, and D	0.0	0.0	-	-	0.0	0.0
A, C, and D	0.0	0.0	-	-	0.0	0.0
B, C, and D	0.0	0.0	-	-	0.0	0.0
A, B, C, and D	0.0	0.0	-	-	0.0	0.0
(n)	1830		-		1187	

III. RDC criteria failed by cases in the other systems who do not meet full RDC criteria

	%	SE	%	SE	%	SE
A	0.0	0.0	0.0	0.0	-	-
B	40.8	1.6	100.0	0.0	-	-
C	61.5	1.6	0.0	0.0	-	-
A-only	0.0	0.0	0.0	0.0	-	-
B-only	38.5	1.6	100.0	0.0	-	-
C-only	59.2	1.6	0.0	0.0	-	-
A and B	0.0	0.0	0.0	0.0	-	-
A and C	0.0	0.0	0.0	0.0	-	-
B and C	2.3	0.5	0.0	0.0	-	-
A, B, and C	0.0	0.0	0.0	0.0	-	-
(n)	898		95		-	

[1]All respondents meeting ICD-10 criteria meet criteria for DSM-IV-TR

Appendix table 3. Non-significant demographic predictors of insomnia based on DSM-IV-TR, ICD-10, and RDC diagnostic criteria (n = 10,094)

	DSM-IV-TR		ICD-10		RDC		Any	
	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)	OR	(95% CI)
Marital Status								
Never Married	1.1	(0.9-1.4)	1.6*	(1.0-2.6)	1.1	(0.8-1.4)	1.1	(0.9-1.4)
Separated/Widowed/Divorced	1.2	(0.9-1.4)	1.5	(1.0-2.2)	1.1	(0.8-1.4)	1.2	(1.0-1.4)
Married/Cohabitation	1.0	--	1.0	--	1.0	--	1.0	--
χ^2_2		2.0		5.1		0.5		2.2
# of children								
# of biological/step/adopted	1.0	--	1.0	--	1.0	--	1.0	--
χ^2_1		1.7		0.9		0.5		1.7
# of hours worked								
<35 hours	0.9	(0.8-1.1)	0.8	(0.6-1.2)	1.0	(0.8-1.2)	0.9	(0.8-1.1)
Full-time (35 hours)	1.0	--	1.0	--	1.0	--	1.0	--
χ^2_1		0.6		1.4		0.2		0.7
# Nights away from home								
# Nights in the past 12 months	1.0	--	1.0	--	1.0	--	1.0	--
χ^2_1		0.1		0.0		0.5		0.0
# Days traveling across 3+ time zones								
# Days in the past 4 weeks	1.0	(0.9-1.0)	1.0	(0.9-1.0)	1.0	(0.9-1.0)	1.0	(0.9-1.0)
χ^2_1		2.8		1.0		1.7		3.6
Total Household Income								
Less than 20,000	1.0	(0.8-1.2)	1.0	(0.6-1.6)	1.0	(0.8-1.3)	1.0	(0.8-1.2)
20,000-40,000	1.1	(1.0-1.3)	1.2	(0.9-1.6)	1.1	(1.0-1.3)	1.2	(1.0-1.3)
40,000-80,000	1.0	(0.9-1.1)	1.2	(0.9-1.5)	1.0	(0.8-1.1)	1.0	(0.9-1.1)
More than 80,000	1.0	--	1.0	--	1.0	--	1.0	--
χ^2_3		3.7		2.4		4.7		5.8

Appendix table 4. Association between number in bed and RDC Criterion B

Number of people in the same bed with respondent	RDC Criterion B*				χ^{2**}	p-value	df
	0		**1**				
	%	**(se)**	**%**	**(se)**			
0	32.4	2.0	33.5	0.5			
1	57.7	2.1	64.5	0.5			
2 or more	9.9	1.3	2.0	0.2			
N	581		9373				
					38.0	< 0.001	2

* RDC_B = 0 if criterion B is not satisfied, that is there are no adequate opportunity for sleep.
** Chi-square test for the difference between the distributions of number of people in the same bed among those with RDC_B = 0 and RDC_B = 1.

Appendix table 5.

Parameter	PCS Est	(se)	MCS Est	(se)	SF-6 Est	(se)
Intercept	56.6	0.4	57.8	0.4	91.8	0.6
DSM-only	-0.7	0.3	-1.0	0.3	-1.5	0.4
RDC-only	-0.4	0.9	-0.7	0.7	-2.0	1.2
DSM and ICD without RDC/ICSD	-3.3	1.0	-7.4	1.0	-10.4	1.1
DSM and RDC without ICD	-1.7	0.3	-2.8	0.3	-4.5	0.4
DSM and ICD and RDC/ICSD	-4.0	0.6	-6.0	0.6	-9.6	0.7
No insomnia	0.0	0.0	0.0	0.0	0.0	0.0
Age						
18-29	1.6	0.4	-3.2	0.4	-1.3	0.5
30-44	1.4	0.4	-2.7	0.3	-1.0	0.5
45-64	1.2	0.4	-1.3	0.3	0.0	0.5
65+	0.0	0.0	0.0	0.0	0.0	0.0
Sex						
Female	-0.5	0.2	-0.2	0.2	-0.4	0.2
Male	0.0	0.0	0.0	0.0	0.0	0.0
Education						
Less than high school	-1.0	0.8	-0.4	0.7	0.1	0.9
High school graduate	-1.0	0.2	0.2	0.2	0.0	0.3
Some pre-bachelor's post high school	-0.5	0.3	0.3	0.2	0.3	0.3
College bachelor's degree or more	0.0	0.0	0.0	0.0	0.0	0.0
Employment						
Student	-0.1	0.4	-0.9	0.5	-1.7	0.6
Homemaker	-1.0	0.4	-0.8	0.5	-1.8	0.6
Retired	-2.6	0.4	-0.1	0.3	-2.5	0.5
Other	-0.8	0.5	-0.7	0.4	-1.9	0.6
Disabled	-15.3	1.2	1.3	1.1	-13.2	1.0
Employed	0.0	0.0	0.0	0.0	0.0	0.0
Work schedule						
Evenings	0.5	0.6	-0.1	0.5	-0.1	0.9
Nights	-0.3	0.5	-0.8	0.6	-1.3	0.8
Split Shifts	0.0	0.6	0.2	0.8	-0.2	1.1
Rotating Shifts	-0.4	0.5	0.2	0.6	-0.2	0.9
Other	-0.4	0.4	0.1	0.4	-0.5	0.5
Days	0.0	0.0	0.0	0.0	0.0	0.0
Body mass index						
Underweight	-2.7	0.9	0.3	0.9	-0.1	1.2
Overweight	-0.7	0.2	0.1	0.2	0.0	0.3
Obese	-2.6	0.3	0.8	0.2	-0.8	0.3
Normal	0.0	0.0	0.0	0.0	0.0	0.0
Number of people sleeping in the same bed as the respondent						
Continuous number	0.3	0.2	0.5	0.2	1.2	0.2
Number of nights away from home in the past month						
Continuous number	0.1	0.0	0.0	0.0	0.0	0.0
Frequent back or neck pains						

Yes	-1.9	0.2	-0.1	0.2	-1.6	0.3
No	0.0	0.0	0.0	0.0	0.0	0.0
Migraine headaches						
Yes	-0.5	0.2	0.0	0.2	-0.4	0.3
No	0.0	0.0	0.0	0.0	0.0	0.0
Other frequent or severe headaches						
Yes	-0.6	0.3	-0.5	0.2	-1.2	0.3
No	0.0	0.0	0.0	0.0	0.0	0.0
Other chronic pain of any sort, such as muscle pain, joint						
Yes	-3.0	0.2	0.5	0.2	-2.5	0.3
No	0.0	0.0	0.0	0.0	0.0	0.0
Frequent problems with diarrhea or constipation or gas						
Yes	-0.9	0.3	-0.8	0.3	-1.8	0.4
No	0.0	0.0	0.0	0.0	0.0	0.0
Chronic heartburn or GERD (treated)						
Yes	-1.0	0.5	0.3	0.4	0.2	0.6
No	0.0	0.0	0.0	0.0	0.0	0.0
Chronic heartburn or GERD (untreated)						
Yes	-0.7	0.3	-0.6	0.3	-1.2	0.4
No	0.0	0.0	0.0	0.0	0.0	0.0
Seasonal allergies or hayfever						
Yes	0.1	0.2	0.1	0.2	0.1	0.2
No	0.0	0.0	0.0	0.0	0.0	0.0
Urinary or bladder problems						
Yes	-1.6	0.3	-0.1	0.3	-1.9	0.4
No	0.0	0.0	0.0	0.0	0.0	0.0
Generalized anxiety disorder						
Yes	1.4	0.2	-4.9	0.3	-4.5	0.3
No	0.0	0.0	0.0	0.0	0.0	0.0
Feeling down on yourself or depressed (treated)						
Yes	-1.2	0.5	-4.4	0.6	-6.5	0.7
No	0.0	0.0	0.0	0.0	0.0	0.0
Feeling down on yourself or depressed (untreated)						
Yes	-0.1	0.2	-2.1	0.2	-2.9	0.3
No	0.0	0.0	0.0	0.0	0.0	0.0
Any other emotional problems						
Yes	0.3	0.5	-4.5	0.5	-4.4	0.7
No	0.0	0.0	0.0	0.0	0.0	0.0
Arthritis (rheumatoid or osteoarthritis) (treated)						
Yes	-4.0	0.5	1.1	0.4	-2.4	0.6
No	0.0	0.0	0.0	0.0	0.0	0.0
Arthritis (rheumatoid or osteoarthritis) (untreated)						
Yes	-2.4	0.3	0.8	0.3	-1.1	0.4
No	0.0	0.0	0.0	0.0	0.0	0.0
Diabetes (treated)						
Yes	-2.4	0.4	0.0	0.4	-1.0	0.5
No	0.0	0.0	0.0	0.0	0.0	0.0
Diabetes or high blood sugar (untreated)						
Yes	-0.6	0.5	0.1	0.5	0.1	0.7
No	0.0	0.0	0.0	0.0	0.0	0.0

High blood pressure (treated)						
Yes	-1.5	0.3	0.6	0.2	-0.4	0.4
No	0.0	0.0	0.0	0.0	0.0	0.0
High blood pressure (untreated)						
Yes	-1.2	0.3	0.5	0.3	0.0	0.4
No	0.0	0.0	0.0	0.0	0.0	0.0
Chronic obstructive pulmonary disease (treated)						
Yes	-5.6	0.8	1.0	0.6	-2.8	0.9
No	0.0	0.0	0.0	0.0	0.0	0.0
Chronic obstructive pulmonary disease (untreated)						
Yes	-3.9	1.2	1.6	0.9	-1.9	1.2
No	0.0	0.0	0.0	0.0	0.0	0.0
Chronic bronchitis, emphysema						
Yes	-0.7	0.3	-0.3	0.3	-0.8	0.5
No	0.0	0.0	0.0	0.0	0.0	0.0
Sleep apnea (treated)						
Yes	-1.0	0.6	-0.2	0.5	-0.4	0.7
No	0.0	0.0	0.0	0.0	0.0	0.0
Sleep apnea (untreated)						
Yes	-1.0	0.5	-1.1	0.4	-1.4	0.6
No	0.0	0.0	0.0	0.0	0.0	0.0
Restless leg						
Yes	-2.1	0.5	-0.8	0.5	-2.9	0.6
No	0.0	0.0	0.0	0.0	0.0	0.0
Congestive heart failure						
Yes	-4.8	1.2	1.1	0.8	-2.7	1.4
No	0.0	0.0	0.0	0.0	0.0	0.0
Climacteric symptoms PM women						
Yes	-1.0	0.8	0.3	0.6	-0.9	1.0
No	0.0	0.0	0.0	0.0	0.0	0.0