

Appendix table 1a. Bivariate associations of sociodemographic variables with 12-month suicide ideation, plan and attempts in developed WMH Countries¹

| Demographic variable | Categories | Among total sample of developed WMH countries | | Among 12 Month Ideators in developed WMH Countries | | | | | |
|---------------------------|--|---|-----------|--|-----------|-----------------|------------|-------------------|------------|
| | | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | | OR | (95% CI) | OR | (95% CI) | OR | (95% CI) | OR | (95% CI) |
| 4-Category Age | Less than 35 | 4.8 | (3.5-6.5) | 1.9 | (0.8-4.5) | 1.6 | (0.2-14.9) | 4.5 | (1.6-12.7) |
| | 35-49 | 3.7 | (2.7-5.1) | 1.9 | (0.8-4.6) | 1.2 | (0.1-10.5) | 3.5 | (1.2-9.9) |
| | 50-64 | 2.3 | (1.6-3.1) | 1.9 | (0.8-4.5) | 0.5 | (0.1-5.0) | 1.0 | (1.0-1.0) |
| | 65 or older | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | . | (.-) |
| | X ² ₃ (p-value) | 123.7 | (<.001)* | 2.3 | '(0.51) | 7.6 | '(0.05) | 8.0 | (0.018)* |
| Dichotomized Age | Less than 50 | 2.5 | (2.1-3.0) | 1.2 | (0.8-1.7) | 2.4 | (1.0-5.5) | 5.7 | (2.1-14.9) |
| | 50 or older | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₁ (p-value) | 107.6 | (<.001)* | 0.7 | '(0.40) | 4.0 | (0.045)* | 12.3 | (<.001)* |
| Sex | Female | 1.3 | (1.1-1.5) | 0.8 | (0.6-1.2) | 1.2 | (0.7-2.2) | 0.8 | (0.4-1.4) |
| | Male | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₁ (p-value) | 12.5 | (<.001)* | 1.1 | '(0.29) | 0.5 | '(0.49) | 0.8 | '(0.36) |
| Education | Low | 1.7 | (1.4-2.2) | 1.6 | (0.9-2.7) | 0.7 | (0.3-2.1) | 2.4 | (0.8-7.0) |
| | Low-average | 1.5 | (1.1-1.9) | 1.4 | (0.8-2.5) | 0.8 | (0.3-2.2) | 2.1 | (0.7-6.1) |
| | High-average | 1.5 | (1.2-1.9) | 1.9 | (1.1-3.2) | 0.8 | (0.3-2.3) | 1.4 | (0.5-4.1) |
| | High | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₃ (p-value)s | 20.4 | (<.001)* | 5.4 | '(0.15) | 0.3 | '(0.96) | 3.2 | '(0.35) |
| Income level ² | Low | 3.0 | (2.2-4.0) | 1.5 | (0.8-2.8) | 2.3 | (0.7-6.9) | 1.6 | (0.5-4.8) |
| | Low-average | 2.2 | (1.6-2.8) | 1.5 | (0.8-2.7) | 1.8 | (0.6-5.8) | 1.0 | (0.3-3.0) |
| | High-average | 1.5 | (1.2-2.1) | 1.0 | (0.5-1.9) | 1.1 | (0.3-3.8) | 0.7 | (0.2-2.5) |
| | High | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₃ (p-value) | 65.8 | (<.001)* | 5.9 | '(0.12) | 4.4 | '(0.22) | 3.1 | '(0.38) |
| Marital Status | married or cohabitated | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | separated, widowed, or divorced | 2.2 | (1.8-2.6) | 1.1 | (0.8-1.6) | 1.8 | (0.8-4.0) | 1.3 | (0.7-2.7) |
| | never married | 2.8 | (2.4-3.3) | 1.1 | (0.8-1.6) | 1.7 | (0.9-3.4) | 1.7 | (0.9-3.2) |
| | X ² ₂ (p-value) | 160.2 | (<.001)* | 0.4 | '(0.81) | 3.4 | '(0.18) | 3.2 | '(0.21) |
| Employment | Working | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | Student | 1.7 | (1.3-2.4) | 0.5 | (0.3-1.0) | 2.5 | (0.6-9.9) | 0.6 | (0.1-2.5) |
| | Homemaker | 1.1 | (0.8-1.4) | 1.6 | (0.9-2.6) | 0.6 | (0.2-1.5) | 0.4 | (0.1-1.3) |
| | Retired | 0.4 | (0.3-0.5) | 0.9 | (0.4-1.9) | 0.8 | (0.1-5.5) | . | (.-) |
| | Other | 3.2 | (2.5-3.9) | 2.1 | (1.4-3.1) | 3.0 | (1.4-6.7) | 1.0 | (0.5-2.2) |
| | X ² ₄ (p-value) | 203.1 | (<.001)* | 19.8 | (<.001)* | 12.7 | (0.013)* | 2.9 | '(0.40) |
| | (numerator / denominator N) ³ | (1064 / 51771) | | (327 / 1064) | | (110 / 327) | | (63 / 737) | |

*Significant at the .05 level, two-sided test

¹based on logistic regression analysis controlling for country

²Family income classified into four categories based on the ratio of income to number of family members: less than or equal to the official Department of Labor federal poverty line (defined in the table as families living in poverty), 1-3, 3-6, and 6+ times the poverty line

³Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix table 1b. Bivariate associations of sociodemographic variables with 12-month suicide ideation, plan and attempts in developing WMH Countries¹

| Demographic variable | Categories | Among total sample of developing WMH countries | | Among 12 Month Ideators in developing WMH countries | | | | | |
|--|---------------------------------------|--|--------------|---|-------------|-----------------|------------|-------------------|------------|
| | | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | | OR | (95% CI) | OR | (95% CI) | OR | (95% CI) | OR | (95% CI) |
| 4-Category Age | Less than 35 | 1.2 | (0.9-1.6) | 1.4 | (0.7-2.7) | 1.5 | (0.4-4.9) | 6.3 | (0.8-51.5) |
| | 35-49 | 0.9 | (0.7-1.2) | 1.2 | (0.6-2.4) | 0.9 | (0.3-2.9) | 7.5 | (0.9-59.6) |
| | 50-64 | 0.8 | (0.6-1.1) | 1.2 | (0.6-2.4) | 1.1 | (0.3-3.9) | 4.8 | (0.6-40.4) |
| | 65 or older | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₃ (p-value) | 25.1 | (<.001)* | 1.3 | '(0.72) | 3.2 | '(0.36) | 4.0 | '(0.26) |
| Dichotomized Age | Less than 50 | 1.3 | (1.1-1.5) | 1.1 | (0.8-1.7) | 1.1 | (0.6-2.1) | 1.8 | (0.7-4.5) |
| | 50 or older | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₁ (p-value) | 10.7 | (0.001)* | 0.4 | '(0.51) | 0.2 | '(0.70) | 1.8 | '(0.18) |
| Sex | Female | 1.5 | (1.3-1.7) | 0.9 | (0.6-1.2) | 1.1 | (0.6-1.8) | 0.8 | (0.4-1.5) |
| | Male | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₁ (p-value) | 25.1 | (<.001)* | 0.8 | '(0.38) | 0.0 | '(0.85) | 0.6 | '(0.45) |
| Education | Low | 1.6 | (1.2-2.1) | 1.4 | (0.8-2.4) | 1.3 | (0.5-3.4) | 0.4 | (0.1-1.3) |
| | Low-average | 1.6 | (1.2-2.1) | 1.3 | (0.8-2.2) | 1.6 | (0.6-3.9) | 0.8 | (0.3-2.4) |
| | High-average | 1.4 | (1.1-1.8) | 1.4 | (0.9-2.4) | 2.1 | (0.8-5.2) | 0.8 | (0.2-2.5) |
| | High | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₃ (p-value) | 15.9 | (0.001)* | 2.1 | '(0.54) | 2.9 | '(0.41) | 2.7 | '(0.44) |
| Income level ² | Low | 1.3 | (1.0-1.6) | 1.7 | (1.1-2.7) | 1.5 | (0.7-2.8) | 0.5 | (0.2-1.3) |
| | Low-average | 1.5 | (1.2-2.0) | 0.9 | (0.6-1.5) | 0.8 | (0.4-1.7) | 0.4 | (0.2-1.2) |
| | High-average | 1.2 | (0.9-1.6) | 0.8 | (0.4-1.4) | 1.0 | (0.5-2.3) | 0.7 | (0.2-2.0) |
| | High | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | X ² ₃ (p-value) | 11.0 | (0.011)* | 16.5 | (<.001)* | 3.1 | '(0.38) | 3.3 | '(0.35) |
| Marital Status | married or cohabitated | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | separated, widowed, or divorced | 1.4 | (1.2-1.7) | 1.3 | (0.9-2.0) | 0.8 | (0.4-1.7) | 0.7 | (0.2-2.6) |
| | never married | 1.1 | (0.9-1.3) | 1.1 | (0.8-1.5) | 1.1 | (0.6-2.0) | 0.7 | (0.3-1.8) |
| Employment | X ² ₂ (p-value) | 12.0 | (0.002)* | 1.9 | '(0.38) | 0.7 | '(0.69) | 0.7 | '(0.70) |
| | Working | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) | 1.0 | (1.0-1.0) |
| | Student | 1.2 | (0.8-1.8) | 1.0 | (0.5-2.2) | 1.8 | (0.5-6.4) | 9.4 | (2.5-35.3) |
| | Homemaker | 1.5 | (1.3-1.9) | 1.0 | (0.7-1.4) | 1.2 | (0.7-2.0) | 0.5 | (0.2-1.2) |
| | Retired | 1.2 | (0.9-1.6) | 0.7 | (0.4-1.3) | 1.2 | (0.4-3.7) | 0.6 | (0.1-2.9) |
| | Other | 2.4 | (1.9-3.0) | 1.2 | (0.8-1.9) | 2.9 | (1.5-5.6) | 1.3 | (0.5-3.0) |
| | X ² ₄ (p-value) | 66.5 | (<.001)* | 2.4 | '(0.66) | 10.9 | (0.028)* | 18.2 | (0.001)* |
| (numerator / denominator N) ³ | (1197 / 56893) | | (414 / 1197) | | (176 / 414) | | (60 / 783) | | |

*Significant at the .05 level, two-sided test

¹based on logistic regression analysis controlling for country

²Family income classified into four categories based on the ratio of income to number of family members: less than or equal to the official Department of Labor federal poverty line (defined in the table as families living in poverty), 1-3, 3-6, and 6+ times the poverty line

³Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix Table 2a. Bivariate associations of parental psychopathology and other childhood family adversities with 12-month suicide ideation, plan and attempts in developed WMH countries¹

| | Among total sample of developed WMH countries | | Among 12 Month Ideators in developed WMH countries | | | | | |
|--|---|--------------------|--|--------------------|-----------------|--------------------|-------------------|--------------------|
| | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) |
| I. Parental psychopathology | | | | | | | | |
| Parent Disorders | | | | | | | | |
| Parent Suicide | 3.7* (2.4-5.8)* | 32.3(<.001)* | 0.8 (0.3-1.9) | 0.3(0.60) | 0.4 (0.1-2.0) | 1.2(0.27) | 0.9 (0.1-6.9) | 0.0(0.95) |
| Parent Depression | 3.8* (2.4-6.0)* | 32.6(<.001)* | 2.0 (0.9-4.1) | 3.2(0.07) | 2.1 (0.7-6.5) | 1.8(0.18) | 0.5 (0.1-2.2) | 0.9(0.34) |
| Parent Panic | 2.8* (1.8-4.3)* | 19.3(<.001)* | 1.0 (0.5-1.8) | 0.0(0.97) | 2.9 (0.8-10.0) | 2.8(0.10) | 1.3 (0.3-5.3) | 0.1(0.72) |
| Parent GAD | 4.0* (2.7-5.9)* | 46.0(<.001)* | 1.5 (0.7-3.1) | 1.0(0.32) | 1.4 (0.4-4.8) | 0.3(0.59) | 1.1 (0.3-3.6) | 0.0(0.88) |
| Parent Substance Abuse | 2.1* (1.4-3.0)* | 14.7(<.001)* | 1.3 (0.7-2.7) | 0.7(0.41) | 0.6 (0.2-2.1) | 0.5(0.46) | 2.1 (0.8-5.6) | 2.0(0.16) |
| Parent ASP | 2.9* (2.0-4.2)* | 33.5(<.001)* | 1.2 (0.5-2.5) | 0.1(0.71) | 2.5 (0.7-9.6) | 1.9(0.17) | 1.5 (0.6-3.6) | 0.8(0.38) |
| II. Other childhood family adversities | | | | | | | | |
| Parent Death | 1.0 (0.7-1.4) | 0.0(0.91) | 1.0 (0.5-2.1) | 0.0(0.95) | 0.8 (0.2-2.6) | 0.1(0.71) | 1.5 (0.4-6.5) | 0.3(0.57) |
| Parent Divorce | 2.0* (1.5-2.8)* | 20.3(<.001)* | 0.9 (0.5-1.7) | 0.0(0.85) | 2.7 (0.9-7.6) | 3.3(0.07) | 0.8 (0.3-2.2) | 0.2(0.69) |
| Other Parent Loss | 2.5* (1.7-3.5)* | 23.6(<.001)* | 1.0 (0.5-2.2) | 0.0(0.90) | 0.4 (0.1-1.5) | 1.7(0.19) | 2.2 (0.5-8.9) | 1.2(0.27) |
| Parent Criminal | 2.4* (1.8-3.3)* | 32.6(<.001)* | 1.0 (0.5-2.2) | 0.0(0.98) | 3.8 (0.8-18.6) | 2.6(0.10) | 2.7 (0.7-10.0) | 2.2(0.14) |
| Physical abuse | 4.8* (3.9-5.8)* | 233.8(<.001)* | 1.6* (1.0-2.4)* | 4.7(0.030)* | 2.3* (1.2-4.5)* | 5.7(0.016)* | 2.8* (1.4-5.6)* | 8.1(0.005)* |
| Sexual abuse | 4.3* (3.4-5.4)* | 154.9(<.001)* | 1.6* (1.0-2.6)* | 4.3(0.039)* | 2.3* (1.1-4.7)* | 5.3(0.022)* | 2.2 (0.8-6.0) | 2.6(0.11) |
| Neglect | 3.2* (2.1-4.8)* | 31.3(<.001)* | 3.6* (1.9-6.6)* | 16.7(<.001)* | 2.0 (0.8-5.0) | 2.0(0.16) | 4.4* (1.1-17.3)* | 4.6(0.032)* |
| Physical Illness | 1.6* (1.2-2.2)* | 9.4(0.002)* | 1.2 (0.6-2.1) | 0.2(0.65) | 1.8 (0.7-4.5) | 1.4(0.24) | 1.8 (0.8-4.4) | 1.9(0.17) |
| Family violence | 2.9* (2.3-3.6)* | 91.8(<.001)* | 1.5 (1.0-2.3) | 3.7(0.06) | 2.0 (0.9-4.0) | 3.3(0.07) | 3.6* (1.9-7.0)* | 15.0(<.001)* |
| Economic adversity | 1.7* (1.2-2.5)* | 7.8(0.005)* | 2.2* (1.2-4.0)* | 6.9(0.009)* | 1.6 (0.6-4.7) | 0.9(0.35) | 2.3 (0.6-9.1) | 1.3(0.26) |
| (numerator / denominator N) ² | (965 / 27963) | | (317 / 965) | | (107 / 317) | | (60 / 648) | |

*Significant at the .05 level, two-sided test

¹Based on logistic regression analysis controlling for country

²Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix Table 2b. Bivariate associations of parental psychopathology and other childhood family adversities with 12-month suicide ideation, plan and attempts in developing WMH countries¹

| | Among total sample of developing WMH countries | | | | Among 12 Month Ideators in developing WMH countries | | | |
|---|---|--------------------|-----------------|--------------------|---|--------------------|-------------------|--------------------|
| | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) |
| I. Parental psychopathology | | | | | | | | |
| Parent Disorders | | | | | | | | |
| Parent Suicide | 2.8* (1.8-4.2)* | 23.6(<.001)* | 2.5* (1.3-4.8)* | 7.7(0.006)* | 1.3 (0.4-3.9) | 0.2(0.62) | 0.7 (0.1-3.2) | 0.2(0.62) |
| Parent Depression | 3.0* (2.0-4.6)* | 28.1(<.001)* | 1.3 (0.6-2.7) | 0.5(0.50) | 1.0 (0.4-2.4) | 0.0(0.96) | 2.8 (0.9-9.1) | 3.1(0.08) |
| Parent Panic | 2.8* (2.2-3.5)* | 67.3(<.001)* | 2.3* (1.4-3.7)* | 11.5(<.001)* | 1.5 (0.7-3.3) | 1.2(0.27) | 1.5 (0.5-4.4) | 0.5(0.47) |
| Parent GAD | 3.3* (2.3-4.8)* | 40.5(<.001)* | 1.3 (0.7-2.3) | 0.6(0.46) | 1.1 (0.3-3.5) | 0.0(0.93) | 3.5* (1.1-11.4)* | 4.2(0.041)* |
| Parent Substance Abuse | 2.5* (1.9-3.2)* | 43.4(<.001)* | 0.7 (0.5-1.1) | 1.9(0.16) | 0.9 (0.4-1.7) | 0.2(0.67) | 0.5 (0.2-1.3) | 2.2(0.14) |
| Parent ASP | 3.0* (2.2-4.1)* | 49.9(<.001)* | 0.9 (0.4-1.8) | 0.1(0.74) | 1.0 (0.4-2.7) | 0.0(0.95) | 0.5 (0.1-2.1) | 0.9(0.34) |
| II. Other childhood family adversities | | | | | | | | |
| Parent Death | 1.4* (1.1-1.8)* | 9.2(0.002)* | 0.9 (0.6-1.4) | 0.1(0.71) | 1.3 (0.7-2.3) | 0.7(0.40) | 0.6 (0.2-2.1) | 0.6(0.42) |
| Parent Divorce | 1.2 (0.8-1.6) | 0.9(0.34) | 0.9 (0.6-1.6) | 0.0(0.85) | 1.2 (0.4-3.2) | 0.1(0.76) | 0.3 (0.1-1.8) | 1.7(0.19) |
| Other Parent Loss | 2.1* (1.6-2.8)* | 24.9(<.001)* | 0.9 (0.6-1.4) | 0.3(0.61) | 1.0 (0.3-2.9) | 0.0(0.99) | 0.3 (0.1-1.5) | 2.0(0.16) |
| Parent Criminal | 2.5* (1.9-3.4)* | 38.3(<.001)* | 0.9 (0.4-1.8) | 0.1(0.75) | 0.9 (0.3-2.5) | 0.0(0.88) | 1.4 (0.3-5.5) | 0.2(0.67) |
| Physical abuse | 3.0* (2.4-3.7)* | 100.8(<.001)* | 1.3 (0.8-2.1) | 1.5(0.23) | 1.1 (0.6-2.1) | 0.2(0.69) | 1.0 (0.5-1.9) | 0.0(0.90) |
| Sexual abuse | 4.0* (2.5-6.3)* | 35.7(<.001)* | 2.0 (0.8-4.6) | 2.4(0.12) | 1.6 (0.4-6.8) | 0.3(0.56) | 1.8 (0.5-6.6) | 0.7(0.40) |
| Neglect | 2.3* (1.8-3.0)* | 38.7(<.001)* | 1.6 (0.9-3.0) | 2.5(0.11) | 0.8 (0.3-1.9) | 0.3(0.61) | 1.2 (0.4-3.8) | 0.1(0.75) |
| Physical Illness | 2.0* (1.4-2.8)* | 12.9(<.001)* | 1.1 (0.6-2.1) | 0.0(0.83) | 1.4 (0.4-4.6) | 0.4(0.55) | 2.1 (0.5-8.6) | 1.0(0.32) |
| Family violence | 2.3* (1.8-2.9)* | 50.8(<.001)* | 1.6* (1.0-2.6)* | 4.0(0.045)* | 1.4 (0.7-2.6) | 0.9(0.35) | 1.0 (0.3-3.0) | 0.0(1.00) |
| Economic adversity | 1.7* (1.1-2.5)* | 6.4(0.011)* | 1.0 (0.5-2.3) | 0.0(0.93) | 0.4 (0.1-1.3) | 2.5(0.12) | 0.5 (0.1-4.8) | 0.3(0.57) |
| | (numerator / denominator N) ² | (1040 / 26959) | (412 / 1040) | | (173 / 412) | | (59 / 628) | |

*Significant at the .05 level, two-sided test

¹Based on bivariate logistic regression analysis controlling for country

²Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

| | | | | | | | | |
|--|--------------------|---------------|-----------------|--------------|---------------|-----------|---------------|-----------|
| Any | 11.8* (9.6-14.5)* | 545.0(<.001)* | 2.3* (1.5-3.5)* | 13.0(<.001)* | 1.3 (0.5-2.9) | 0.3(0.60) | 1.2 (0.6-2.6) | 0.2(0.64) |
| Exactly one ² | 5.8* (4.5-7.5)* | | 1.2(0.7-2.1) | | 0.6(0.2-1.8) | | 1.0(0.4-2.6) | |
| Exactly two ² | 17.9* (13.7-23.3)* | | 2.1* (1.2-3.7)* | | 1.7(0.6-4.6) | | 1.1(0.4-3.0) | |
| Three or more ² | 40.1* (30.4-52.9)* | 813.7(<.001)* | 4.0* (2.4-6.7)* | 33.7(<.001)* | 1.6(0.6-4.0) | 5.4(0.14) | 1.5(0.6-3.6) | 1.3(0.72) |
| (numerator / denominator N) ³ | (1064 / 51771) | | (327 / 1064) | | (110 / 327) | | (63 / 737) | |

*Significant at the .05 level, two-sided test

¹Based on logistic regression analysis controlling for country

² Rows based on multivariate regression analysis controlling for country (No disorder is the reference category)

³Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix Table 3b. Bivariate associations 12-month DSM-IV/CIDI disorders with 12-month suicide ideation, plan and attempts in developing WMH countries¹

| | Among total sample of developing WMH countries | | | | Among 12 Month Ideators | | | |
|--|--|--------------------|-----------------|--------------------|-------------------------|--------------------|-------------------|--------------------|
| | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) | OR(95% CI) | χ^2 (p-value) |
| 12-month DSM-IV disorders² | | | | | | | | |
| I. Anxiety disorders | | | | | | | | |
| Panic disorder | 6.4* (4.5-9.2)* | 105.3(<.001)* | 1.6 (0.9-3.1) | 2.2(0.14) | 3.9* (1.4-11.3)* | 6.3(0.012)* | 0.0* (0.0-0.0)* | 2198.4(<.001)* |
| Agoraphobia without panic | 4.2* (2.9-5.9)* | 64.1(<.001)* | 2.4* (1.2-4.6)* | 6.8(0.009)* | 1.1 (0.5-2.5) | 0.1(0.82) | 1.2 (0.3-4.2) | 0.1(0.77) |
| Generalized anxiety disorder | 5.6* (4.0-7.9)* | 97.4(<.001)* | 1.3 (0.6-2.7) | 0.5(0.47) | 0.3* (0.1-0.9)* | 4.9(0.026)* | 0.0* (0.0-0.0)* | 1361.7(<.001)* |
| Specific phobia | 3.5* (2.9-4.3)* | 153.7(<.001)* | 1.5* (1.1-2.2)* | 5.5(0.019)* | 0.8 (0.4-1.6) | 0.4(0.53) | 1.0 (0.4-2.7) | 0.0(0.94) |
| Social phobia | 5.2* (4.0-6.9)* | 145.7(<.001)* | 1.4 (0.8-2.7) | 1.4(0.24) | 0.9 (0.4-2.1) | 0.1(0.81) | 0.8 (0.3-2.0) | 0.3(0.58) |
| Post-traumatic stress disorder | 5.3* (3.7-7.7)* | 76.5(<.001)* | 0.9 (0.4-1.7) | 0.1(0.71) | 1.7 (0.4-7.4) | 0.5(0.47) | 0.3 (0.1-1.3) | 2.7(0.10) |
| Adult separation anxiety disorder | 8.5* (5.7-12.6)* | 112.9(<.001)* | 2.2* (1.0-5.0)* | 3.9(0.050)* | 1.2 (0.4-3.1) | 0.1(0.78) | 4.0* (1.1-15.0)* | 4.2(0.041)* |
| Any anxiety disorder | 4.9* (4.1-5.9)* | 283.9(<.001)* | 1.3 (0.9-1.8) | 2.6(0.11) | 1.4 (0.8-2.4) | 1.1(0.29) | 1.1 (0.6-2.4) | 0.1(0.72) |
| II. Mood disorders | | | | | | | | |
| Major depressive disorder | 9.1* (7.6-10.9)* | 592.2(<.001)* | 1.5* (1.1-2.0)* | 6.3(0.012)* | 1.1 (0.6-1.8) | 0.0(0.82) | 1.6 (0.8-3.5) | 1.6(0.21) |
| Dysthymic disorder | 7.1* (4.7-10.9)* | 82.8(<.001)* | 2.3* (1.1-4.5)* | 5.3(0.021)* | 1.0 (0.3-3.4) | 0.0(0.99) | 2.2 (0.6-8.3) | 1.5(0.23) |
| Bipolar disorder | 8.4* (5.8-12.3)* | 124.5(<.001)* | 3.6* (2.0-6.7)* | 16.7(<.001)* | 0.7 (0.3-1.5) | 0.9(0.35) | 0.8 (0.2-2.9) | 0.1(0.73) |
| Any mood disorder | 9.2* (7.8-11.0)* | 648.2(<.001)* | 1.7* (1.2-2.3)* | 11.6(<.001)* | 1.1 (0.7-1.9) | 0.2(0.68) | 1.6 (0.8-3.4) | 1.7(0.19) |
| III. Externalizing disorders | | | | | | | | |
| Attention-deficit hyperactivity disorder | 2.1 (0.9-4.7) | 3.1(0.08) | 2.5 (0.7-8.7) | 2.0(0.16) | 0.2 (0.0-1.2) | 3.0(0.08) | 0.0* (0.0-0.0)* | 564.2(<.001)* |
| Oppositional-defiant disorder | 5.6* (2.2-13.9)* | 13.5(<.001)* | 1.8 (0.3-10.8) | 0.4(0.52) | 3.0 (0.3-30.5) | 0.9(0.35) | 0.0* (0.0-0.0)* | 388.6(<.001)* |
| Conduct disorder | 4.5* (2.3-8.9)* | 18.5(<.001)* | 3.0 (0.7-13.6) | 2.0(0.16) | 10.0* (1.0-96.1)* | 3.9(0.047)* | 3.2 (0.4-23.5) | 1.3(0.26) |
| Intermittent explosive disorder | 5.7* (4.3-7.5)* | 153.7(<.001)* | 1.7* (1.0-2.7)* | 4.1(0.044)* | 1.3 (0.6-2.6) | 0.5(0.46) | 2.3 (0.8-6.4) | 2.6(0.11) |
| Any impulse-control disorder | 4.9* (3.6-6.7)* | 98.7(<.001)* | 1.3 (0.8-2.4) | 1.0(0.32) | 1.3 (0.6-2.8) | 0.3(0.57) | 1.6 (0.7-3.8) | 1.3(0.26) |
| IV. Substance use disorders | | | | | | | | |
| Alcohol abuse or dependence | 3.5* (2.6-4.7)* | 68.3(<.001)* | 1.8 (1.0-3.1) | 3.8(0.05) | 2.0 (0.9-4.4) | 2.9(0.09) | 0.3 (0.1-1.6) | 1.9(0.17) |
| Illicit drug abuse or dependence | 10.7* (6.9-16.7)* | 111.1(<.001)* | 0.9 (0.4-2.1) | 0.0(0.90) | 7.3* (1.9-28.2)* | 8.4(0.004)* | 0.0* (0.0-0.0)* | 1706.5(<.001)* |
| Any substance use disorder | 4.3* (3.3-5.7)* | 107.6(<.001)* | 1.6 (0.9-2.9) | 2.3(0.13) | 2.6* (1.2-5.8)* | 5.4(0.020)* | 0.3 (0.1-1.2) | 3.0(0.08) |
| V. Number of Disorders | | | | | | | | |
| Any | 6.7* (5.5-8.2)* | 368.2(<.001)* | 1.6* (1.2-2.3)* | 7.9(0.005)* | 2.2* (1.1-4.4)* | 5.1(0.024)* | 1.7 (0.8-3.7) | 1.8(0.17) |

| | | | | | | | | |
|--|--------------------|---------------|-----------------|--------------|-----------------|--------------|--------------|-----------|
| Exactly one ² | 4.5* (3.6-5.7)* | | 1.4(0.9-2.1) | | 2.1* (1.0-4.6)* | | 1.9(0.8-4.6) | |
| Exactly two ² | 10.5* (7.9-13.9)* | | 1.7* (1.1-2.8)* | | 3.2* (1.4-7.2)* | | 1.5(0.5-4.6) | |
| Three or more ² | 18.7* (14.1-24.9)* | 496.4(<.001)* | 2.3* (1.4-3.9)* | 12.2(0.007)* | 1.3(0.6-3.0) | 10.9(0.012)* | 1.7(0.6-5.1) | 2.2(0.52) |
| (numerator / denominator N) ³ | (1197 / 56893) | | (414 / 1197) | | (176 / 414) | | (60 / 783) | |

*Significant at the .05 level, two-sided test

¹Based on logistic regression analysis controlling for country

² Rows based on multivariate regression analysis controlling for country (No disorder is the reference category)

³Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix Table4a. Multivariate association between respondent history of suicidality and 12-month suicide ideation, plan and attempts in developed WMH countries¹

| History of Suicidality prior to current year | Among total sample of developed WMH countries | | Among 12 Month Ideators in developed WMH countries | | | | | |
|--|---|--------------------------|--|--------------------------|-----------------|--------------------------|-------------------|--------------------------|
| | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | OR (95% CI) | X ² (p-value) | OR (95% CI) | X ² (p-value) | OR (95% CI) | X ² (p-value) | OR (95% CI) | X ² (p-value) |
| History of ideation only | 30.8*(24.8-38.3)* | 950.8(<.001)* | 0.3*(0.1-0.6)* | 12.2(<.001)* | 0.1*(0.0-0.6)* | 6.0(0.014)* | 0.2*(0.1-0.6)* | 9.1(0.002)* |
| History of ideation and plan but no attempt | 48.2*(36.5-63.5)* | 753.5(<.001)* | 10.9*(6.5-18.5)* | 79.9(<.001)* | 0.1*(0.1-0.3)* | 17.0(<.001)* | 3.0(1.0-9.3) | 3.6(0.06) |
| History of ideation with unplanned attempt | 28.8*(20.4-40.8)* | 360.7(<.001)* | 1.0(0.6-1.9) | 0.0(0.90) | 1.3(0.5-3.5) | 0.3(0.56) | 6.2*(2.6-14.6)* | 17.4(<.001)* |
| History of ideation with planned attempt | 48.2*(36.8-63.0)* | 797.0(<.001)* | 7.2*(4.2-12.5)* | 49.8(<.001)* | 1.8(0.8-3.7) | 2.1(0.14) | 0.8(0.2-2.8) | 0.1(0.70) |
| X ² ₄ (p-value) | 1311.8(<.001)* | | 163.2(<.001)* | | 38.5(<.001)* | | 52.0(<.001)* | |
| (numerator / denominator N) ² | (1064 / 51771) | | (327 / 1064) | | (110 / 327) | | (63 / 737) | |

*Significant at the .05 level, two-sided test

¹Based on multivariate logistic regression analysis controlling for countries, age, age squared

²Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix Table4b. Multivariate association between respondent history of suicidality and 12-month suicide ideation, plan and attempts in developing WMH countries¹

| History of Suicidality prior to current year | Among total sample of developing WMH countries | | | | Among 12 Month Ideators in developing WMH countries | | | |
|--|--|--------------------|----------------|--------------------|---|--------------------|-------------------|--------------------|
| | Ideation | | Plan | | Planned Attempt | | Unplanned Attempt | |
| | OR (95% CI) | χ^2 (p-value) | OR (95% CI) | χ^2 (p-value) | OR (95% CI) | χ^2 (p-value) | OR (95% CI) | χ^2 (p-value) |
| History of ideation only | 28.4*(23.3-34.5)* | 1109.3(<.001)* | 0.2*(0.1-0.3)* | 43.4(<.001)* | 0.2*(0.1-0.6)* | 7.7(0.005)* | 0.6(0.3-1.5) | 1.2(0.28) |
| History of ideation and plan but no attempt | 43.1*(32.3-57.5)* | 653.9(<.001)* | 3.7*(2.2-6.3)* | 24.8(<.001)* | 0.2*(0.1-0.4)* | 15.8(<.001)* | 0.5(0.1-3.4) | 0.5(0.49) |
| History of ideation with unplanned attempt | 29.6*(20.3-43.2)* | 312.1(<.001)* | 0.6(0.3-1.1) | 2.5(0.11) | 2.7(1.0-7.2) | 3.8(0.05) | 9.3*(4.2-21.0)* | 29.4(<.001)* |
| History of ideation with planned attempt | 41.5*(32.3-53.4)* | 840.2(<.001)* | 4.0*(2.6-6.1)* | 40.5(<.001)* | 1.8(1.0-3.2) | 3.8(0.05) | 1.7(0.5-5.9) | 0.7(0.42) |
| X^2_4 (p-value) | 1562.1(<.001)* | | 148.6(<.001)* | | 40.2(<.001)* | | 52.1(<.001)* | |
| (numerator / denominator N) ² | (1197 / 56893) | | (414 / 1197) | | (176 / 414) | | (60 / 783) | |

*Significant at the .05 level, two-sided test

¹Based on multivariate logistic regression analysis controlling for countries, age, age squared

²Numerator n refers to the number of cases with each suicide outcome, denominator n refers to the number of cases in the total sample or in the conditional sample among ideators, ideators with a plan and ideators without a plan

Appendix Table 5 – Risk factors included in the summary risk indices

I. Planned attempt developed

Psychiatric disorders: specific phobia, conduct, drug abuse and dependence

Adversities: parent depression, parent panic, parent ASP, parent divorce, parent criminal, physical abuse, sexual abuse, family violence

Prior suicidality: No prior attempt but had prior plan, No prior plan or attempt but had prior ideation

Demographics: employment: student or other

II. Unplanned attempt developed

Psychiatric disorders: NONE

Adversities: parent substance abuse, parent criminal, physical abuse, sexual abuse, neglect, family violence, econ. adversity

Prior suicidality: Prior attempt, No prior attempt but had prior plan, No prior plan or attempt but had prior ideation

Demographics: less than 50

III. Planned attempt developing

Psychiatric disorders: panic, conduct, alcohol abuse or dependence, drug abuse or dependence

Adversities: NONE

Prior suicidality: No prior attempt but had prior plan, No prior plan or attempt but had prior ideation

Demographics: employment: retired or other

IV. Unplanned attempt developing

Psychiatric disorders: adult separation anxiety, intermittent explosive disorder

Adversities: parent depression, parent panic, parent GAD

Prior suicidality: Prior attempt, No prior attempt but had prior plan

Demographics: employment: student

Appendix Table 6 – Concordance (AUC) between predicted probability of suicide attempt using the risk indices and the actual occurrence of suicide attempts

| | Planned Attempt AUC | Unplanned Attempt AUC |
|-----------------------|--------------------------------|----------------------------------|
| I. Developed | | |
| NCSR | .73 | .68 |
| Belgium | .83 | .87 |
| France | .90 | --- ¹ |
| Germany | .50 | .62 |
| Italy | --- ¹ | --- ¹ |
| Netherlands | .78 | .75 |
| Spain | .69 | .87 |
| New Zealand | .81 | .78 |
| Japan | .87 | .82 |
| Israel | .95 | .56 |
| II. Developing | | |
| Brazil | .68 | .70 |
| Bulgaria | .50 | .52 |
| China | .59 | .71 |
| Colombia | .65 | .83 |
| India | .54 | .96 |
| Lebanon | .73 | .61 |
| Mexico | .75 | .69 |
| Nigeria | .56 | --- ¹ |
| Romania | .87 | --- ¹ |
| South Africa | .75 | .60 |
| Shenzhen | .65 | .50 |
| Ukraine | .81 | .67 |

¹No observations