Additional material

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| Tab. DS1. Association of suicidal behaviors with CM | | | | |
| Variable | | Adjusted OR (95%CI)a |  | Adjusted OR (95%CI)b |
| SI | CM (tertile score) |  |  |  |
|  | Low | 1.0 |  | 1.0 |
|  | Moderate | 1.8 (1.6 ~ 2.1)\*\* |  | 1.8 (1.5 ~ 2.1)\*\* |
|  | High | 4.2 (3.6 ~ 4.8)\*\* |  | 3.7 (3.2 ~ 4.3)\*\* |
| SP | CM (tertile score) |  |  |  |
|  | Low | 1.0 |  | 1.0 |
|  | Moderate | 1.7 (1.3 ~ 2.1)\*\* |  | 1.6 (1.3 ~ 2.0)\*\* |
|  | High | 5.6 (4.1 ~ 6.2)\*\* |  | 4.5 (3.7 ~ 5.5)\*\* |
| SAs | CM (tertile score) |  |  |  |
|  | Low | 1.0 |  | 1.0 |
|  | Moderate | 2.4 (1.6 ~ 3.4)\*\* |  | 2.3 (1.6 ~ 3.3)\*\* |
|  | High | 6.5 (4.7 ~ 9.0)\*\* |  | 5.5 (3.9 ~ 7.6)\*\* |

Note. \**p* < .05, \*\**p* < .001; SI is Suicidal ideation; SP is Suicidal planning; SAs is Suicidal attempts; In SI and SP, a Adjusted for gender, registered residence, self-reported family economy, cities; b Adjusted for gender, registered residence, self-reported family economy, cities, and BRD. In SAs, a Adjusted for gender, Only child, self-reported family economy, cities; b adjusted for gender, Only child, self-reported family economy, cities, and BRD.

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| Tab. DS2. Association of CM, BRD, and suicidal behaviors | | | | |
| Variable | | Crude OR (95%CI) |  | Adjusted OR (95%CI)a |
| SI | CM×BRD |  |  |  |
|  | LCM×LBRD | 1.0 |  | 1.0 |
|  | MCM×LBRD | 1.8 (1.5 ~ 2.1)\*\* |  | 1.9 (1.6 ~ 2.2)\*\* |
|  | HCM×LBRD | 3.8 (3.2 ~ 4.4)\*\* |  | 4.0 (3.4 ~ 4.7)\*\* |
|  | LCM×HBRD | 5.0 (3.5 ~ 7.1)\*\* |  | 4.5 (3.2 ~ 6.5)\*\* |
|  | MCM×HBRD | 5.7 (4.2 ~ 7.8)\*\* |  | 5.7 (4.2 ~ 7.8)\*\* |
|  | HCM×HBRD | 11.3 (9.0 ~ 14.1)\*\* |  | 10.9 (8.7 ~ 13.7)\*\* |
| SP | CM×BRD |  |  |  |
|  | LCM×LBRD | 1.0 |  | 1.0 |
|  | MCM×LBRD | 1.6 (1.2 ~ 2.1)\*\* |  | 1.6 (1.3 ~ 2.1)\*\* |
|  | HCM×LBRD | 4.5 (3.6 ~ 5.6)\*\* |  | 4.7 (3.8 ~ 5.9)\*\* |
|  | LCM×HBRD | 3.6 (2.2 ~ 5.9)\*\* |  | 3.2 (2.0 ~ 5.3)\*\* |
|  | MCM×HBRD | 4.7 (3.1 ~ 7.2)\*\* |  | 4.7 (3.1 ~ 7.1)\*\* |
|  | HCM×HBRD | 11.8 (9.0 ~ 15.5)\*\* |  | 11.3 (8.5 ~ 14.9)\*\* |
| SAs | CM×BRD |  |  |  |
|  | LCM×LBRD | 1.0 |  | 1.0 |
|  | MCM×LBRD | 2.6 (1.7 ~ 4.0)\*\* |  | 2.9 (1.9 ~ 4.4)\*\* |
|  | HCM×LBRD | 5.9 (4.0 ~ 8.7)\*\* |  | 6.6 (4.5 ~ 9.9)\*\* |
|  | LCM×HBRD | 8.3 (4.3 ~ 15.9)\*\* |  | 6.8 (3.5 ~ 13.3)\*\* |
|  | MCM×HBRD | 7.1 (3.8 ~ 13.1)\*\* |  | 6.9 (3.7 ~ 12.8)\*\* |
|  | HCM×HBRD | 20.4 (13.4 ~ 31.1)\*\* |  | 19.8 (12.9 ~ 30.5)\*\* |

Note. \**p* < .05, \*\**p* < .001; SI is suicidal ideation; SP is suicidal planning; SAs is suicidal attempts; In SI and SP, a Adjusted for gender, registered residence, self-reported family economy, cities. In SAs, a Adjusted for gender, Only child, self-reported family economy, cities; LBRD is low biological rhythm disorder; HBRD is high biological rhythm disorder; LCM is low childhood maltreatment, MCM is moderate childhood maltreatment, HCM is high childhood maltreatment.

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| Tab. DS3. Association of CM, gender, and suicidal behaviors | | | | |
| Variable | | Crude OR (95%CI) |  | Adjusted OR (95%CI)a |
| SI | CM×gender |  |  |  |
|  | LCM×girls | 1.0 |  | 1.0 |
|  | MCM×girls | 1.9 ( 1.6~ 2.3)\*\* |  | 2.0 (1.6 ~ 2.4)\*\* |
|  | HCM×girls | 4.5 ( 3.8~ 5.4)\*\* |  | 4.5 (3.7 ~ 5.4)\*\* |
|  | LCM×boys | 0.6 (0.5 ~ 0.8)\*\* |  | 0.6 (0.5 ~ 0.7)\*\* |
|  | MCM×boys | 0.9 (0.8 ~ 1.2) |  | 0.9 (0.7 ~ 1.1) |
|  | HCM×boys | 2.2 (1.8 ~ 2.7)\*\* |  | 2.1 (1.8 ~ 2.5)\*\* |
| SP | CM×gender |  |  |  |
|  | LCM×girls | 1.0 |  | 1.0 |
|  | MCM×girls | 1.8 (1.4 ~ 2.4)\*\* |  | 1.9 (1.4 ~ 2.5)\*\* |
|  | HCM×girls | 5.5 (4.2 ~ 7.0)\*\* |  | 5.4 (4.2 ~ 6.9)\*\* |
|  | LCM×boys | 0.6 (0.4 ~ 0.9)\* |  | 0.6 (0.4 ~ 0.9)\* |
|  | MCM×boys | 0.9 (0.6 ~ 1.2) |  | 0.8 (0.6 ~ 1.2) |
|  | HCM×boys | 2.9 (2.2 ~ 3.7)\*\* |  | 2.7 (2.1 ~ 3.6)\*\* |
| SAs | CM×gender |  |  |  |
|  | LCM×girls | 1.0 |  | 1.0 |
|  | MCM×girls | 2.5 (1.6 ~ 3.8)\*\* |  | 1.9 (1.4 ~ 2.5)\*\* |
|  | HCM×girls | 6.1 (4.2 ~ 9.0)\*\* |  | 5.4 (4.2 ~ 7.0)\*\* |
|  | LCM×boys | 0.5 (0.2 ~ 0.9)\* |  | 0.6 (0.4 ~ 0.9)\* |
|  | MCM×boys | 0.8 (0.5 ~ 1.4) |  | 0.8 (0.6 ~ 1.2) |
|  | HCM×boys | 2.8 (1.9 ~ 4.2)\*\* |  | 2.7 (2.1 ~ 3.6)\*\* |

Note. \**p* < .05, \*\**p* < .001; SI is suicidal ideation; SP is suicidal planning; SAs is suicidal attempts; In SI and SP, a Adjusted for registered residence, self-reported family economy, cities. In SAs, a Adjusted for Only child, self-reported family economy, cities; LCM is low childhood maltreatment, MCM is moderate childhood maltreatment, HCM is high childhood maltreatment.

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| Tab. DS4. Number, % and OR of suicidal behaviors by level of CM and BRD | | | | | |
| CM (tertile score) | LBRD | |  | HBRD | |
| n (%) | OR (95%CI) |  | n (%) | OR (95%CI) |
| SI |  |  |  |  |  |
| Low | 280 (10.9) | 1.0 |  | 58 (37.9) | 1.0 |
| Moderate | 406 (17.9) | 1.8 (1.5 ~ 2.1)\*\* |  | 83 (41.1) | 1.1 (0.7 ~ 1.8) |
| High | 733 (31.4) | 3.8 (3.2 ~ 4.4)\*\* |  | 265 (58.0) | 2.3 (1.6 ~ 3.3)\*\* |
| SP |  |  |  |  |  |
| Low | 109 (4.2) | 1.0 |  | 21 (13.7) | 1.0 |
| Moderate | 149 (6.6) | 1.6 (1.2 ~ 2.1)\*\* |  | 35 (17.3) | 1.3 (0.7 ~ 2.4) |
| High | 388 (16.6) | 4.5 (3.6 ~ 5.6)\*\* |  | 157 (34.4) | 3.3 (2.0 ~ 5.4)\*\* |
| SAs |  |  |  |  |  |
| Low | 31 (1.2) | 1.0 |  | 14 (9.2) | 1.0 |
| Moderate | 70 (3.1) | 2.6 (1.7 ~ 4.0)\*\* |  | 16 (7.9) | 0.9 (0.4 ~ 1.8) |
| High | 156 (6.7) | 5.9 (4.0 ~ 8.7)\*\* |  | 91 (19.9) | 2.5 (1.4 ~ 4.5)\* |

Note. \**p* < .05, \*\**p* < .001; Crude model. Note. \**p* < .05, \*\**p* < .001; SI is suicidal ideation; SP is suicidal planning; SAs is suicidal attempts; In SI and SP; LBRD is low biological rhythm disorder; HBRD is high biological rhythm disorder.