Supplementary Material

**Figure S1.** Interactive effects of emotional abuse and serum brain derived neurotrophic factor (sBDNF) levels on suicidal behavior at baseline (N=1094) and at follow-up (N=884).

**Figure S2.** Interactive effects of physical abuse and serum brain derived neurotrophic factor (sBDNF) levels on suicidal behavior at baseline (N=1094) and at follow-up (N=884).

**Figure S3.** Interactive effects of sexual abuse and serum brain derived neurotrophic factor (sBDNF) levels on suicidal behavior at baseline (N=1094) and at follow-up (N=884).

**Table S1.** Characteristics compared by serum brain derived neurotrophic factor (sBDNF) levels median value (23.3ng/mL) at baseline.

**Table S2.** Characteristics compared by previous suicidal attempt before the study enrolment.

**Table S3.** Characteristics compared by Brief Psychiatric Rating Scale (BPRS) suicidality item score at baseline.

**Table S4.** Associations between treatment step after 12 week and prospective suicidal behaviour (N=884). Data are N (%).

**Table S5.** Individual effects of childhood abuse types on suicidal behavior at baseline (N=1094).

**Table S6.** Individual effects of childhood abuse types on suicidal behavior during one year follow-up (N=884).

**Table S7.** Effects of childhood abuse and serum brain derived neurotrophic factor (sBDNF) levels with suicidal behaviour by age.

**Figure S1. Interactive effects of emotional abuse and serum brain derived neurotrophic factor (sBDNF) levels on suicidal behavior at baseline (N=1094) and at follow-up (N=884).**

Figure legends: Data are odds ratios (95% confidence intervals) adjusted for age, sex, living alone, religious affiliation, monthly income, atypical feature, number of depressive episodes, number of physical disorders, smoking status, and scores on Hospital Anxiety & Depression Scale-anxiety subscale and Alcohol Use Disorders Identification Test for previous suicidal attempt and baseline suicidal severity evaluated at baseline; as well as treatment step for increased suicidal severity and fatal/non-fatal suicide attempt during the follow-up.

**\***P<0.05; **†**P<0.01; **‡**P<0.001.



**Figure S2. Interactive effects of physical abuse and serum brain derived neurotrophic factor (sBDNF) levels on suicidal behavior at baseline (N=1094) and at follow-up (N=884).**

Figure legends: Data are odds ratios (95% confidence intervals) adjusted for age, sex, living alone, religious affiliation, monthly income, atypical feature, number of depressive episodes, number of physical disorders, smoking status, and scores on Hospital Anxiety & Depression Scale-anxiety subscale and Alcohol Use Disorders Identification Test for previous suicidal attempt and baseline suicidal severity evaluated at baseline; as well as treatment step for increased suicidal severity and fatal/non-fatal suicide attempt during the follow-up.

**\***P<0.05; **†**P<0.01; **‡**P<0.001.



**Figure S3. Interactive effects of sexual abuse and serum brain derived neurotrophic factor (sBDNF) levels on suicidal behavior at baseline (N=1094) and at follow-up (N=884).**

Figure legends: Data are odds ratios (95% confidence intervals) adjusted for age, sex, living alone, religious affiliation, monthly income, atypical feature, number of depressive episodes, number of physical disorders, smoking status, and scores on Hospital Anxiety & Depression Scale-anxiety subscale and Alcohol Use Disorders Identification Test for previous suicidal attempt and baseline suicidal severity evaluated at baseline; as well as treatment step for increased suicidal severity and fatal/non-fatal suicide attempt during the follow-up.

**\***P<0.05; **†**P<0.01; **‡**P<0.001.



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| **Table S1. Characteristics compared by serum brain derived neurotrophic factor (sBDNF) levels median value (23.3ng/mL) at baseline.** |
|  | HighersBDNF (N=547) | LowersBDNF (N=547) | Statistical coefficients | P-value |
| **Socio-demographic characteristics** |  |  |  |  |
| Age, mean (SD) years | 56.5 (14.2) | 57.4 (15.5) | t=-0.975 | 0.330 |
| Sex, N (%) female | 357 (65.3) | 396 (72.4) | χ2=6.480 | 0.011 |
| Education, mean (SD) years | 9.1 (4.9) | 9.1 (4.7) | t=+0.101 | 0.920 |
| Marital status, N (%) unmarried | 157 (28.7) | 170 (31.1) | χ2=0.737 | 0.391 |
| Living alone, N (%) | 71 (13.0) | 96 (17.6) | χ2=4.417 | 0.036 |
| Religious non-affiliation, N (%) | 245 (44.8) | 238 (43.5) | χ2=0.182 | 0.670 |
| Unemployed status, N (%) | 156 (28.5) | 160 (29.3) | χ2=0.071 | 0.790 |
| Monthly income, N (%) <2,000 USD | 330 (60.3) | 323 (59.0) | χ2=0.186 | 0.666 |
| **Clinical characteristics** |  |  |  |  |
| Major depressive disorder, N (%) | 463 (84.6) | 470 (85.9) | χ2=0.357 | 0.550 |
| Melancholic feature, N (%) | 83 (15.2) | 82 (15.0) | χ2=0.007 | 0.933 |
| Atypical feature, N (%) | 33 (6.0) | 36 (6.6) | χ2=0.139 | 0.709 |
| Age at onset, mean (SD) years | 51.5 (16.0) | 52.2 (17.4) | t=-0.711 | 0.477 |
| Duration of illness, mean (SD) years | 5.0 (8.3) | 5.2 (9.7) | t=-0.288 | 0.774 |
| Number of depressive episodes, mean (SD) | 1.1 (1.4) | 1.1 (1.5) | t=-0.164 | 0.870 |
| Duration of present episode, mean (SD) months | 7.7 (10.7) | 7.1 (10.0) | t=+0.905 | 0.366 |
| Family history of depression, N (%) | 86 (15.8) | 74 (13.5) | χ2=1.106 | 0.293 |
| Number of physical disorders, mean (SD) | 1.5 (1.2) | 1.7 (1.3) | t=-2.503 | 0.012 |
| Current smoker, N (%) | 57 (10.4) | 66 (12.1) | χ2=0.244 | 0.621 |
| **Assessment scales**, mean (SD) scores |  |  |  |  |
| Hospital Anxiety & Depression Scale-depression subscale | 13.6 (4.0) | 13.7 (3.9) | t=-0.498 | 0.619 |
| Hospital Anxiety & Depression Scale-anxiety subscale | 11.8 (4.0) | 11.8 (4.1) | t=-0.306 | 0.759 |
| Alcohol Use Disorders Identification Test | 5.0 (8.3) | 5.7 (9.4) | t=-1.355 | 0.176 |
| **Treatment step over 1 year** (N=884), N (%) |  |  |  |
| Step 1 | 204 (37.3) | 236 (43.1) | χ2=4.804 | 0.187 |
| Step 2 | 183 (33.5) | 162 (29.6) |  |  |
| Step 3 | 104 (19.0) | 104 (19.0) |  |  |
| Step 4 | 56 (10.2) | 45 (8.2) |  |  |

aFor patients with an insufficient response or uncomfortable side effects, next treatment steps (1, 2, 3, and 4 or over) with alternative strategies (switching, augmentation, combination, and mixtures of these approaches) were administered considering measurements and patient preference at 3, 6, 9, and 12 weeks, and at 6, 9, and 12 months.

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| **Table S2. Characteristics compared by previous suicidal attempt before the study enrolment.** |
|  | Absent (N=998) | Present (N=96) | Statistical coefficients | P-value |
| **Socio-demographic characteristics** |  |  |  |  |
| Age, mean (SD) years | 57.9 (14.4) | 46.9 (15.5) | t=+7.124 | **<0.001** |
| Sex, N (%) male | 301 (30.2) | 40 (41.7) | χ2=5.404 | **0.020** |
| Education, mean (SD) years | 8.9 (4.8) | 10.9 (4.5) | t=-3.857 | **<0.001** |
| Marital status, N (%) unmarried | 285 (28.6) | 42 (43.8) | χ2=9.646 | **0.002** |
| Living alone, N (%) | 150 (15.0) | 17 (17.7) | χ2=0.486 | 0.486 |
| Religious non-affiliation, N (%) | 422 (42.3) | 61 (63.5) | χ2=16.049 | **<0.001** |
| Unemployed status, N (%) | 288 (28.9) | 28 (29.2) | χ2=0.004 | 0.949 |
| Monthly income, N (%) <2,000 USD | 609 (61.0) | 44 (45.8) | χ2=8.397 | **0.004** |
| **Clinical characteristics** |  |  |  |  |
| Major depressive disorder, N (%) | 843 (84.5) | 90 (93.8) | χ2=6.010 | **0.014** |
| Melancholic feature, N (%) | 156 (15.6) | 9 (9.4) | χ2=2.676 | 0.102 |
| Atypical feature, N (%) | 53 (5.3) | 16 (16.7) | χ2=19.112 | **<0.001** |
| Age at onset, mean (SD) years | 53.2 (16.1) | 38.0 (16.5) | t=+8.810 | **<0.001** |
| Duration of illness, mean (SD) years | 4.7 (8.7) | 8.8 (11.6) | t=-3.415 | **0.001** |
| Number of depressive episodes, mean (SD) | 1.0 (1.4) | 2.1 (2.0) | t=-5.426 | **<0.001** |
| Duration of present episode, mean (SD) months | 7.2 (10.4) | 9.1 (9.7) | t=-1.682 | 0.093 |
| Family history of depression, N (%) | 146 (14.6) | 14 (14.6) | χ2=0.001 | 0.990 |
| Number of physical disorders, mean (SD) | 1.7 (1.3) | 1.3 (1.3) | t=+2.453 | 0.114 |
| Current smoker, N (%) | 102 (10.2) | 21 (21.9) | χ2=15.037 | **0.001** |
| **Assessment scales**, mean (SD) scores |  |  |  |  |
| Hospital Anxiety & Depression Scale-depression subscale | 13.6 (3.9) | 14.3 (4.2) | t=-1.777 | 0.076 |
| Hospital Anxiety & Depression Scale-anxiety subscale | 11.7 (4.0) | 12.8 (4.3) | t=-2.492 | **0.013** |
| Alcohol Use Disorders Identification Test | 4.7 (8.3) | 11.7 (12.0) | t=-5.576 | **<0.001** |
| **Treatment step over 1 year** (N=884), N (%) |  |  |  |
| Step 1 | 303 (37.3) | 23 (31.9) | χ2=10.151 | **0.017** |
| Step 2 | 268 (33.0) | 18 (25.0) |  |  |
| Step 3 | 157 (19.3) | 15 (20.3) |  |  |
| Step 4 | 84 (10.3) | 16 (22.2) |  |  |

aFor patients with an insufficient response or uncomfortable side effects, next treatment steps (1, 2, 3, and 4 or over) with alternative strategies (switching, augmentation, combination, and mixtures of these approaches) were administered considering measurements and patient preference at 3, 6, 9, and 12 weeks, and at 6, 9, and 12 months.

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| **Table S3. Characteristics compared by Brief Psychiatric Rating Scale (BPRS) suicidality item score at baseline.** |
|  | 0~2(N=732) | 3~7(N=362) | Statistical coefficients | P-value |
| **Socio-demographic characteristics** |  |  |  |  |
| Age, mean (SD) years | 58.1 (14.0) | 54.6 (16.2) | t=+3.508 | **<0.001** |
| Sex, N (%) female | 503 (68.7) | 250 (69.1) | χ2=0.013 | 0.908 |
| Education, mean (SD) years | 9.1 (4.7) | 9.0 (4.9) | t=+0.287 | 0.774 |
| Marital status, N (%) unmarried | 198 (27.0) | 129 (35.6) | χ2=8.521 | **0.004** |
| Living alone, N (%) | 100 (13.7) | 67 (18.5) | χ2=4.399 | **0.036** |
| Religious non-affiliation, N (%) | 297 (40.6) | 186 (51.4) | χ2=11.473 | **0.001** |
| Unemployed status, N (%) | 195 (26.6) | 121 (33.4) | χ2=5.430 | **0.020** |
| Monthly income, N (%) <2,000 USD | 427 (58.3) | 226 (62.4) | χ2=1.690 | 0.194 |
| **Clinical characteristics** |  |  |  |  |
| Major depressive disorder, N (%) | 606 (82.8) | 327 (90.3) | χ2=10.985 | **0.001** |
| Melancholic feature, N (%) | 109 (14.9) | 56 (15.5) | χ2=0.063 | 0.801 |
| Atypical feature, N (%) | 38 (5.2) | 31 (8.6) | χ2=4.661 | **0.031** |
| Age at onset, mean (SD) years | 53.5 (16.2) | 48.6 (17.3) | t=+4.627 | **<0.001** |
| Duration of illness, mean (SD) years | 4.6 (8.6) | 6.0 (9.9) | t=-2.341 | **0.020** |
| Number of depressive episodes, mean (SD) | 1.0 (1.4) | 1.3 (1.5) | t=-3.868 | **<0.001** |
| Duration of present episode, mean (SD) months | 7.1 (9.7) | 7.9 (11.6) | t=-1.179 | 0.239 |
| Family history of depression, N (%) | 113 (15.4) | 47 (13.0) | χ2=1.168 | 0.280 |
| Number of physical disorders, mean (SD) | 1.6 (1.2) | 1.7 (1.3) | t=-0.522 | 0.602 |
| Current smoker, N (%) | 64 (8.7) | 59 (16.3) | χ2=8.914 | **0.003** |
| **Assessment scales**, mean (SD) scores |  |  |  |  |
| Hospital Anxiety & Depression Scale-depression subscale | 12.9 (4.0) | 15.2 (3.4) | t=-9.961 | **<0.001** |
| Hospital Anxiety & Depression Scale-anxiety subscale | 10.9 (3.9) | 13.6 (3.7) | t=-11.123 | **<0.001** |
| Alcohol Use Disorders Identification Test | 5.1 (8.6) | 5.8 (9.3) | t=-1.183 | 0.237 |
| **Treatment step over 1 year** (N=884), N (%) |  |  |  |
| Step 1 | 233 (39.2) | 93 (32.1) | χ2=7.271 | **0.007** |
| Step 2 | 193 (32.5) | 93 (32.1) | (linear) |  |
| Step 3 | 110 (18.5) | 62 (21.4) |  |  |
| Step 4 | 58 (9.8) | 42 (14.5) |  |  |

aFor patients with an insufficient response or uncomfortable side effects, next treatment steps (1, 2, 3, and 4 or over) with alternative strategies (switching, augmentation, combination, and mixtures of these approaches) were administered considering measurements and patient preference at 3, 6, 9, and 12 weeks, and at 6, 9, and 12 months.

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| **Table S4. Associations between treatment step after 12 week and prospective suicidal behaviour (N=884). Data are N (%).** |
|  |  | Treatment step after 12 week | Statistical coefficients |
|  |  | Step 1 | Step 2 | Step 3 | Step 4 | χ2 | P-value |
| Increased suicidal severitya | Absent (N=729) | 286 (39.2) | 234 (32.1) | 141 (19.3) | 68 (9.3) | 20.831 | <0.001 |
|  | Present (N=155) | 40 (25.8) | 52 (33.5) | 31 (20.0) | 32 (20.6) |
| Fatal/non-fatal suicidal attempt | Absent (N=846) | 318 (37.6) | 272 (32.2) | 165 (19.5) | 91 (10.8) | 8.338 | 0.040 |
|  | Present (N=38) | 8 (21.1) | 14 (36.8) | 7 (18.4) | 9 (23.7) |
| aIncrease in Brief Psychiatric Rating Scale suicidality item score during the follow-up compared to the baseline. |

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| **Table S5. Individual effects of childhood abuse types on suicidal behavior at baseline (N=1094).** |
| Exposure | Group | N | Previous suicidal attempt |  | Higher baseline suicidal severitya |
|  |  |  | No. (%) presence | OR (95% CI) |  | No. (%) presence | OR (95% CI) |
|  |  |  | Unadjusted | Adjustedb |  | Unadjusted | Adjustedb |
| Emotional abuse | Absent | 989 | 71 (7.2) | 1.00 | 1.00 |  | 313 (31.6) | 1.00 | 1.00 |
| Present | 105 | 25 (23.8) | 4.04 (2.43-6.73)**‡** | 2.00 (1.08-3.70)\* |  | 49 (46.7) | 1.89 (1.26-2.84)**†** | 1.27 (0.80-2.02) |
| Physical abuse | Absent | 996 | 70 (7.0) | 1.00 | 1.00 |  | 320 (32.1) | 1.00 | 1.00 |
| Present | 98 | 26 (26.5) | 4.78 (2.87-7.96)**‡** | 2.71 (1.49-4.95)**†** |  | 42 (42.9) | 1.58 (1.04-2.42)\* | 1.07 (0.65-1.74) |
| Sexual abuse | Absent | 1064 | 87 (8.2) | 1.00 | 1.00 |  | 347 (32.6) | 1.00 | 1.00 |
| Present | 30 | 9 (30.0) | 4.81 (2.14-10.83)**‡** | 3.10 (1.24-7.71)\* |  | 15 (50.0) | 2.07 (1.00-4.28)\* | 1.35 (0.60-3.05) |
| aBrief Psychiatric Rating Scale suicidality item score 4 (moderate) ~ 7 (extremely severe).bAdjusted for age, sex, living alone, religious affiliation, monthly income, atypical feature, number of depressive episodes, number of physical disorders, smoking status, and scores on Hospital Anxiety & Depression Scale-anxiety subscale and Alcohol Use Disorders Identification Test.**\***P<0.05; **†**P<0.01; **‡**P<0.001. |

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| **Table S6. Individual effects of childhood abuse types on suicidal behavior during one year follow-up (N=884).** |
| Exposure | Group | N | Increased suicidal severitya |  | Fatal/non-fatal suicide attempt |
|  |  |  | No. (%) presence | OR (95% CI) |  | No. (%) presence | OR (95% CI) |
|  |  |  | Unadjusted | Adjustedb |  | Unadjusted | Adjustedb |
| Emotional abuse | Absent | 796 | 137 (17.2) | 1.00 | 1.00 |  | 29 (3.6) | 1.00 | 1.00 |
| Present | 88 | 18 (20.5) | 1.23 (0.71-2.14) | 0.94 (0.51-1.74) |  | 9 (10.2) | 3.01 (1.38-6.59)**†** | 1.43 (0.56-3.69) |
| Physical abuse | Absent | 802 | 135 (16.8) | 1.00 | 1.00 |  | 29 (3.6) | 1.00 | 1.00 |
| Present | 98 | 20 (24.4) | 1.59 (0.93-2.73) | 1.23 (0.68-2.22) |  | 9 (11.0) | 3.29 (1.50-7.21)**†** | 1.56 (0.62-3.94) |
| Sexual abuse | Absent | 859 | 151 (17.6) | 1.00 | 1.00 |  | 34 (4.0) | 1.00 | 1.00 |
| Present | 25 | 4 (16.0) | 0.89 (0.30-2.64) | 0.84 (0.27-2.60) |  | 4 (16.0) | 4.62 (1.50-14.21)**†** | 4.39 (1.22-15.80)\* |
| aIncrease in Brief Psychiatric Rating Scale suicidality item score during the follow-up compared to the baseline.bAdjusted for age, sex, living alone, religious affiliation, monthly income, atypical feature, number of depressive episodes, number of physical disorders, smoking status, scores on Hospital Anxiety & Depression Scale-anxiety subscale and Alcohol Use Disorders Identification Test, and treatment step.**\***P<0.05; **†**P<0.01; **‡**P<0.001. |

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| **Table S7. Effects of childhood abuse and serum brain derived neurotrophic factor (sBDNF) levels with suicidal behaviour by age.** |
| Age, year | Suicidal behaviour | Childhood abuse | sBDNF | N | No. (%) presence | OR (95% CI)c | p-value for interaction |
| <31 | Previous suicidal attempt | Absent  | Higher | 23 | 2 (8.7) | 1.00 | 0.544 |
|  | Lower | 16 | 4 (25.0) | 3.50 (0.56-22.03) |
| Present  | Higher | 10 | 2 (20.0) | 1.00 |
|  | Lower | 28 | 8 (28.6) | 1.60 (0.28-9.24) |
| Higher baseline suicidal severitya | Absent  | Higher | 23 | 11 (47.8) | 1.00 | 0.116 |
|  | Lower | 16 | 7 (43.8) | 0.85 (0.24-3.06) |
| Present  | Higher | 10 | 3 (30.0) | 1.00 |
|  | Lower | 28 | 18 (64.3) | 4.20 (0.88-19.94) |
| Increased suicidal severityb | Absent  | Higher | 14 | 4 (28.6) | 1.00 | 0.361 |
|  | Lower | 15 | 5 (33.3) | 1.25 (0.26-6.07) |
| Present  | Higher | 8 | 1 (12.5) | 1.00 |
|  | Lower | 26 | 10 (38.5) | 4.38 (0.47-41.07) |
| Fatal/non-fatal suicide attempt | Absent  | Higher | 14 | 1 (7.1) | 1.00 | 0.283 |
|  | Lower | 15 | 1 (6.7) | 0.93 (0.05-16.42) |
| Present  | Higher | 8 | 0 (0.0) | 1.00 |
|  | Lower | 26 | 4 (15.4) | 1.18 (1.00-1.39)\* |
| 31-60 | Previous suicidal attempt | Absent  | Higher | 248 | 20 (8.1) | 1.00 | 0.466 |
|  | Lower | 198 | 19 (9.6) | 1.21 (0.63-2.34) |
| Present  | Higher | 32 | 7 (21.9) | 1.00 |
|  | Lower | 40 | 14 (35.0) | 1.92 (0.67-5.55) |
| Higher baseline suicidal severitya | Absent  | Higher | 248 | 81 (33.2) | 1.00 | 0.005 |
|  | Lower | 198 | 61 (31.0) | 0.90 (0.60-1.35) |
| Present  | Higher | 32 | 6 (18.8) | 1.00 |
|  | Lower | 40 | 20 (51.3) | 4.56 (1.54-13.53)† |
| Increased suicidal severityb | Absent  | Higher | 196 | 20 (10.2) | 1.00 | 0.068 |
|  | Lower | 166 | 26 (15.7) | 1.63 (0.88-3.05) |
| Present  | Higher | 25 | 1 (4.0) | 1.00 |
|  | Lower | 32 | 10 (31.3) | 10.91 (1.29-92.30)\* |
| Fatal/non-fatal suicide attempt | Absent  | Higher | 196 | 9 (4.6) | 1.00 | 0.066 |
|  | Lower | 166 | 5 (3.0) | 0.65 (0.21-1.97) |
| Present  | Higher | 25 | 1 (4.0) | 1.00 |
|  | Lower | 32 | 6 (18.8) | 5.54 (0.62-49.41) |
| >60 | Previous suicidal attempt | Absent  | Higher | 211 | 5 (2.4) | 1.00 | 0.148 |
|  | Lower | 241 | 9 (3.7) | 1.60 (0.53-4.85) |
| Present  | Higher | 15 | 0 (0.0) | 1.00 |
|  | Lower | 24 | 5 (20.8) | 1.26 (1.03-1.55)\* |
| Higher baseline suicidal severitya | Absent  | Higher | 211 | 57 (27.0) | 1.00 | 0.030 |
|  | Lower | 241 | 76 (31.5) | 1.24 (0.83-1.87) |
| Present  | Higher | 15 | 3 (20.0) | 1.00 |
|  | Lower | 24 | 15 (62.5) | 6.67 (1.47-30.21)\* |
| Increased suicidal severityb | Absent  | Higher | 166 | 31 (18.7) | 1.00 | 0.459 |
|  | Lower | 206 | 42 (20.4) | 1.12 (0.67-1.87) |
| Present  | Higher | 14 | 3 (21.4) | 1.00 |
|  | Lower | 16 | 2 (12.5) | 0.52 (0.07-3.70) |
| Fatal/non-fatal suicide attempt | Absent  | Higher | 166 | 5 (3.0) | 1.00 | - |
|  | Lower | 206 | 6 (2.9) | 0.97 (0.29-3.22) |
| Present  | Higher | 14 | 0 (0.0) | - |
|  | Lower | 16 | 0 (0.0) | - |
| aBrief Psychiatric Rating Scale suicidality item score 4 (moderate) ~ 7 (extremely severe).bIncrease in Brief Psychiatric Rating Scale suicidality item score during the follow-up compared to the baseline.cAdjusted for age, sex, living alone, religious affiliation, monthly income, atypical feature, number of depressive episodes, number of physical disorders, smoking status, and scores on Hospital Anxiety & Depression Scale-anxiety subscale and Alcohol Use Disorders Identification Test for previous suicidal attempt and baseline suicidal severity evaluated at baseline; as well as treatment step for increased suicidal severity and fatal/non-fatal suicide attempt during the follow-up.\*P<0.05; †P<0.01. |