

Data supplement for Pagni et al., Multidimensional Personality Changes Following Psilocybin-Assisted Therapy in Patients With Alcohol Use Disorder: Results From a Double-Blind, Placebo-Controlled Clinical Trial. *Am J Psychiatry* (doi: 10.1176/appi.ajp.20230887)

TABLE S1. Participant demographics and self-report means, standard deviations, and ranges

| | Psilocybin (<i>n</i> = 44) | | Placebo (<i>n</i> = 40) | | Group differences | |
|---|-----------------------------|---------|--------------------------|---------|--------------------|--------------|
| | Male | Female | Male | Female | | |
| Sex (ASAB) | | | | | $\chi^2(1) = 0.02$ | $p = 0.88$ |
| | 26 | 18 | 23 | 17 | | |
| Ethnicity | <i>N</i> | % | <i>N</i> | % | $\chi^2(4) = 4.30$ | $p = 0.366$ |
| Hispanic | 4 | 9.09% | 7 | 17.50% | | |
| White | 34 | 77.27% | 31 | 77.50% | | |
| Black | 2 | 4.54% | 0 | 0% | | |
| Asian | 3 | 6.81% | 0 | 0% | | |
| American Indian | 0 | 0% | 1 | 2.50% | | |
| Other | 1 | 2.27% | 1 | 2.50% | | |
| | M | SD | M | SD | | |
| Age, years | 47.34 | 10.79 | 44.03 | 12.05 | $t(82) = -1.33$ | $p = 0.19$ |
| Weight (lbs) | 174.26 | 32.88 | 170.10 | 35.77 | $t(82) = -0.56$ | $p = 0.58$ |
| Income | 266,655 | 659,679 | 147,676 | 119,957 | $t(70) = 3.76$ | $p = 0.057$ |
| BL Neuroticism^a | 91.11 | 21.70 | 99.88 | 27.26 | $t(82) = 1.64$ | $p = 0.11$ |
| BL Extraversion^a | 104.55 | 20.79 | 107.73 | 17.76 | $t(82) = 0.75$ | $p = 0.46$ |
| BL Openness^a | 129.59 | 16.65 | 140.60 | 20.69 | $t(82) = 2.70$ | $p = 0.01^*$ |
| BL Conscientiousness^a | 113.89 | 22.64 | 101.28 | 23.40 | $t(82) = -2.51$ | $p = 0.01^*$ |
| BL Agreeableness^a | 123.23 | 16.13 | 121.90 | 14.86 | $t(82) = -0.39$ | $p = 0.70$ |
| Pre-to-Post Changes in DpD^b | -1.14 | 2.01 | -0.32 | 1.03 | $F(1,83) = 5.41$ | $p = 0.023$ |
| Post-Treatment DpD^b | 1.37 | 1.73 | 1.95 | 1.93 | $F(1,83) = 2.11$ | $p = 0.15$ |

ASAB = assigned sex at birth; M = mean; SD = standard deviation; ^a = NEO-PI; ^b = TLFB; DpD = drinks per day; * $p < 0.05$

TABLE S2. Effects of placebo + psychotherapy treatment on personality facets

| | Placebo | | | | Effect of Time | |
|--------------------------|---------|------|-------|------|-----------------|--------------|
| | Pre | | Post | | | |
| | Mean | SD | Mean | SD | | |
| Neuroticism | | | | | | |
| Anxiety | 17.55 | 6.84 | 18.02 | 6.41 | $t(39) = -0.83$ | $p = 0.41$ |
| Anger Hostility | 14.65 | 6.55 | 14.18 | 6.07 | $t(39) = 0.82$ | $p = 0.42$ |
| Depression | 18.83 | 6.71 | 19.02 | 7.37 | $t(39) = -0.33$ | $p = 0.74$ |
| Self-consciousness | 16.40 | 5.43 | 16.02 | 5.78 | $t(39) = 0.80$ | $p = 0.43$ |
| Impulsiveness | 20.27 | 4.62 | 20.15 | 4.87 | $t(39) = 0.29$ | $p = 0.78$ |
| Vulnerability | 12.18 | 5.28 | 12.38 | 5.22 | $t(39) = -0.44$ | $p = 0.66$ |
| Extraversion | | | | | | |
| Warmth | 22.58 | 5.00 | 22.18 | 4.74 | $t(39) = 0.97$ | $p = 0.34$ |
| Gregariousness | 15.43 | 5.69 | 15.20 | 5.36 | $t(39) = 0.48$ | $p = 0.63$ |
| Assertiveness | 15.95 | 4.91 | 16.20 | 4.89 | $t(39) = -0.61$ | $p = 0.55$ |
| Activity | 16.95 | 3.57 | 17.08 | 3.29 | $t(39) = -0.27$ | $p = 0.79$ |
| Excitement-seeking | 17.73 | 4.81 | 17.35 | 4.72 | $t(39) = 0.82$ | $p = 0.42$ |
| Positive emotions | 19.10 | 6.42 | 17.80 | 7.03 | $t(39) = 2.46$ | $p = 0.02^*$ |
| Openness | | | | | | |
| Fantasy | 21.58 | 5.95 | 22.08 | 5.42 | $t(39) = -0.90$ | $p = 0.37$ |
| Aesthetics | 22.48 | 6.03 | 21.88 | 6.46 | $t(39) = 1.24$ | $p = 0.22$ |
| Feelings | 24.08 | 4.56 | 23.33 | 4.62 | $t(39) = 1.56$ | $p = 0.13$ |
| Actions | 20.15 | 5.02 | 19.55 | 5.12 | $t(39) = 1.45$ | $p = 0.15$ |
| Ideas | 24.50 | 4.79 | 24.40 | 4.64 | $t(39) = 0.26$ | $p = 0.80$ |
| Values | 27.83 | 3.32 | 26.18 | 3.51 | $t(39) = 3.55$ | $p < 0.01^*$ |
| Agreeableness | | | | | | |
| Trust | 18.88 | 5.24 | 18.08 | 5.76 | $t(39) = 1.49$ | $p = 0.15$ |
| Straightforwardness | 18.23 | 5.20 | 17.83 | 4.34 | $t(39) = 0.76$ | $p = 0.45$ |
| Altruism | 23.38 | 3.73 | 22.98 | 3.61 | $t(39) = 0.88$ | $p = 0.40$ |
| Compliance | 16.50 | 4.55 | 16.95 | 4.24 | $t(39) = -0.89$ | $p = 0.38$ |
| Modesty | 19.93 | 4.77 | 20.08 | 4.25 | $t(39) = -0.26$ | $p = 0.79$ |
| Tender-mindedness | 25.00 | 4.22 | 24.90 | 4.38 | $t(39) = 0.19$ | $p = 0.85$ |
| Conscientiousness | | | | | | |
| Competence | 19.80 | 4.43 | 20.27 | 4.05 | $t(39) = -1.01$ | $p = 0.32$ |
| Dutifulness | 18.60 | 4.53 | 19.05 | 4.36 | $t(39) = -0.79$ | $p = 0.43$ |
| Achievement | 18.18 | 5.67 | 18.77 | 6.02 | $t(39) = -1.42$ | $p = 0.16$ |
| Self-discipline | 14.68 | 5.67 | 15.13 | 5.79 | $t(39) = -0.78$ | $p = 0.44$ |
| Deliberation | 14.48 | 4.06 | 14.85 | 3.98 | $t(39) = -0.63$ | $p = 0.54$ |
| Order | 15.55 | 5.93 | 16.15 | 6.53 | $t(39) = -1.11$ | $p = 0.27$ |

Pre- and post-intervention means, standard deviations (*SD*), and within-placebo group *t*-tests; * $p < 0.05$

TABLE S3. Site demographics and baseline means and standard deviations

| Sex | NYU (n=74) | | UNM (n=10) | | Group differences | |
|---|-------------------|---------------|-------------------|---------------|--------------------------|--------------|
| | Male | Female | Male | Female | | |
| | 43 | 31 | 6 | 4 | $\chi^2(1) = 0.01$ | $p = 0.91$ |
| Ethnicity | N | % | N | % | $\chi^2(4)=15.72$ | $p = 0.01^*$ |
| Hispanic | 7 | 9.46% | 4 | 40.00% | | |
| White | 60 | 81.08% | 5 | 50.00% | | |
| Black | 2 | 2.70% | 0 | 0% | | |
| Asian | 3 | 4.05% | 0 | 0% | | |
| American Indian | 0 | 0% | 1 | 10.00% | | |
| Other | 2 | 2.70% | 0 | 0% | | |
| | M | SD | M | SD | | |
| Age, years | 45.70 | 11.39 | 46.20 | 12.58 | $t(82) = 0.13$ | $p = 0.90$ |
| Weight (lbs) | 171.88 | 33.49 | 175.25 | 40.53 | $t(82) = 0.29$ | $p = 0.77$ |
| Income | 236,500 | 520,214 | 49,090 | 47,108 | $t(70) = -1.13$ | $p = 0.26$ |
| BL Neuroticism^a | 97.81 | 24.42 | 76.60 | 19.27 | $t(82) = -2.63$ | $p = 0.01^*$ |
| BL Extraversion^a | 105.34 | 20.05 | 111.40 | 12.60 | $t(82) = 0.93$ | $p = 0.36$ |
| BL Openness^a + | 135.64 | 17.96 | 128.90 | 28.35 | $t(82) = -0.73$ | $p = 0.48$ |
| BL Conscientiousness^a | 106.49 | 24.12 | 118.20 | 18.43 | $t(82) = 1.48$ | $p = 0.14$ |
| BL Agreeableness^a | 120.36 | 14.80 | 139.10 | 9.20 | $t(82) = 3.89$ | $p < 0.01^*$ |
| BL PDD | 74.99 | 26.78 | 77.50 | 34.96 | $t(82) = 0.27$ | $p = 0.79$ |
| BL PHDD | 49.81 | 28.96 | 72.98 | 33.91 | $t(82) = 2.33$ | $p = 0.02^*$ |
| BL DpD+ | 4.35 | 1.99 | 7.63 | 4.49 | $t(82) = 2.28$ | $p = 0.05^*$ |

ASAB = assigned sex at birth; ^a = NEO-PI at Week 0; DpD = drinks per day ^a= NEO; * $p < 0.05$; + inequality of variance, adjusted statistics