Supplementary Table 1. Baseline characteristics of participants retained and suspended in the two samples at the midline assessment

|  | | *Depression RCT (N=120)* | | | | | |  |  | *AUD RCT (N=162)* | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Retained (N=97) | |  | Suspended (N=23) | | *p* |  |  | Retained (N=132) | |  | Suspended (N=30) | | *p* |
| N | N or Med. | % or IQR |  | N or Med. | % or IQR |  | N | N or Med. | % or IQR |  | N or Med. | % or IQR |
| Sex | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | | 18 | 12 | 12.4 |  | 6 | 26.1 | 0.111 |  | 136 | 110 | 83.3 |  | 26 | 86.7 | 0.788 |
| Female | | 102 | 85 | 87.6 |  | 17 | 73.9 |  | 26 | 22 | 16.7 |  | 4 | 13.3 |
| Age | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26-35 | | 27 | 18 | 18.6 |  | 9 | 39.1 | 0.104 |  | 21 | 16 | 12.1 |  | 5 | 16.7 | 0.591 |
| 36-50 | | 61 | 51 | 52.6 |  | 10 | 43.5 |  | 98 | 79 | 59.9 |  | 19 | 63.3 |
| >50 | | 32 | 28 | 28.9 |  | 4 | 17.4 |  | 43 | 37 | 28.0 |  | 6 | 20 |
| Marital status | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No partner | 22 | 18 | 18.6 |  | 4 | 17.4 | 1.000 |  | 10 | 9 | 6.8 |  | 1 | 3.3 | 0.690 |
|  | Has a partner | 98 | 79 | 81.4 |  | 19 | 82.6 |  | 152 | 123 | 93.2 |  | 29 | 96.7 |
| Religion | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Hindu | 102 | 84 | 86.6 |  | 18 | 78.3 | 0.335 |  | 123 | 96 | 72.7 |  | 27 | 90.0 | 0.058 |
|  | Other | 18 | 13 | 13.4 |  | 5 | 21.7 |  | 39 | 36 | 27.3 |  | 3 | 10.0 |
| Caste | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Brahman/Chhetri | 48 | 38 | 39.2 |  | 10 | 43.5 | 0.650 |  | 56 | 47 | 35.6 |  | 9 | 30.0 | 0.129 |
|  | Janajati | 35 | 28 | 28.9 |  | 7 | 30.4 |  | 41 | 37 | 28.0 |  | 4 | 13.3 |
|  | Dalit | 29 | 23 | 23.7 |  | 6 | 26.1 |  | 47 | 36 | 27.3 |  | 11 | 36.7 |
|  | Other | 8 | 8 | 8.2 |  | 0 | 0 |  | 18 | 12 | 9.1 |  | 6 | 20.0 |
| Educational level | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Uneducated/illiterate | 36 | 30 | 30.9 |  | 6 | 26.1 | 0.208 |  | 37 | 34 | 25.8 |  | 3 | 10.0 | 0.072 |
|  | Non formal/less than primary school | 35 | 31 | 32.0 |  | 4 | 17.4 |  | 30 | 21 | 15.9 |  | 9 | 30.0 |
|  | Primary school and above | 49 | 36 | 37.1 |  | 13 | 56.5 |  | 95 | 77 | 58.3 |  | 18 | 60.0 |
| Employment | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Not employed | 85 | 74 | 76.3 |  | 11 | 55.0 | 0.095 |  | 36 | 30 | 22.7 |  | 6 | 20.7 | 1.000 |
|  | Employed | 32 | 23 | 23.7 |  | 9 | 45.0 |  | 125 | 102 | 77.3 |  | 23 | 79.3 |
| Household food insecurity | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No | 7 | 7 | 7.2 |  | 0 | 0 | 0.602 |  | 5 | 5 | 3.8 |  | 0 | 0 | 0.586 |
|  | Yes | 110 | 90 | 92.8 |  | 20 | 100.0 |  | 156 | 127 | 96.2 |  | 29 | 100.0 |
| PHQ-9 score | | 120 | 12 | 5 |  | 13 | 6 | 0.305 |  | 162 | 8 | 8 |  | 9 | 5 | 0.859 |
| AUDIT score | | 120 | 0 | 0 |  | 0 | 3 | 0.071 |  | 162 | 27 | 8.5 |  | 24.5 | 10 | 0.530 |
| WHODAS score | | 120 | 36.1 | 22.2 |  | 38.9 | 30.6 | 0.600 |  | 162 | 19.4 | 26.4 |  | 18.1 | 16.7 | 0.744 |
| OSS-3 score | | 117 | 10 | 4 |  | 10 | 4.5 | 0.364 |  | 161 | 11 | 3 |  | 11 | 2 | 0.757 |

AUD=Alcohol Use Disorder; AUDIT=Alcohol Use Disorder Identification Test; IQR=Inter-quartile range; OSS-3=Oslo Social Support – 3 item; PHQ-9=Patient Health Questionnaire – 9 item; WHODAS=WHO Disability Assessment Schedule.

Supplementary Table 2. Primary and secondary outcomes at 3- and 12- month follow-up among non-imputed intent-to-treat population in the depression sample

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | EUC | | |  | EUC + HAP | | | adjusted *β* or *RR (95%CI)* | *p* | Cohen’s *d* |
| N | Adjusted mean score or % (95%CI) | Adjusted mean change (95%CI) from BL |  | N | Adjusted mean score or % (95%CI) | Adjusted mean change (95%CI) from BL |
| **Midline (3 months)a** |  |  |  |  |  |  |  |  |  |  |
| Primary outcomes |  |  |  |  |  |  |  |  |  |  |
| PHQ-9 | 52 | 5.88 (4.53 to 7.27) | -6.21 (-7.89 to -4.53) |  | 46 | 3.91 (2.89 to 4.93) | -9.11 (-10.46 to -7.77) | -2.90 (-5.05 to -0.75) | 0.008\* | 0.53 |
| WHODAS | 52 | 23.30 (17.79 to 28.82) | -14.55 (-22.07 to -7.04) |  | 46 | 14.17 (9.79 to 18.54) | -22.32 (-28.27 to -16.37) | -7.77 (-17.36 to 1.83) | 0.113 | 0.32 |
| Secondary outcomes |  |  |  |  |  |  |  |  |  |  |
| Response on PHQ-9 c | 52 | 63.5 (49.37 to 75.57) | - |  | 46 | 78.3 (63.73 to 88.06) | - | 1.27 (0.97 to 1.66) | 0.080 |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Endline (12 months)a** |  |  |  |  |  |  |  |  |  |  |
| Primary outcomes |  |  |  |  |  |  |  |  |  |  |
| PHQ-9 | 51 | 6.45 (4.95 to 7.94) | -5.65 (-7.45 to -3.84) |  | 46 | 3.41 (2.57 to 4.25) | -9.61 (-10.82 to -8.40) | -3.97 (-6.14 to -1.79) | <0.001\*\* | 0.66 |
| WHODAS | 51 | 26.81 (20.63 to 33.99) | -11.05 (-19.07 to -3.03) |  | 46 | 13.62 (8.93 to 18.31) | -22.87 (-29.05 to -16.68) | -11.81 (-21.94 to -1.68) | 0.022\* | 0.46 |
| Secondary outcomes |  |  |  |  |  |  |  |  |  |  |
| Response on PHQ-9 c | 50 | 58.8 (44.68 to 71.65) | - |  | 46 | 82.6 (68.51 to 91.20) | - | 1.42 (1.08 to 1.86) | 0.012\* |  |

BL=Baseline; CI=confidence intervals; EUC=enhanced usual care; HAP=Healthy Activity Program; PHQ-9=Patient Health Questionnaire – 9 item; RR=risk ratio; WHODAS=WHO Disability Assessment Schedule; a control group is the reference group; b defined as at least 50% reduction in score compared to baseline; \* p<0.05; \*\*p<0.001.

Supplementary Table 3. Primary and secondary outcomes at 3 and 12-month follow-up among non-imputed intent-to-treat population in the AUD sample

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | EUC | | |  | EUC + CAP | | | *adjusted β or RR*  (95% CI) | *P* | Cohen’s *d* |
| N | Adjusted mean score or % (95%CI) | Adjusted mean change (95%CI) from BL |  | N | Adjusted mean score or % (95%CI) | Adjusted mean change (95%CI) from BL |
| **Midline (3 months)a** |  |  |  |  |  |  |  |  |  |  |
| Primary outcomes |  |  |  |  |  |  |  |  |  |  |
| AUDIT | 67 | 11.33 (8.49 to 14.16) | -14.16 (-17.35 to -10.97) |  | 63 | 9.82 (7.38 to 12.26) | -16.42 (-19.25 to -13.58) | -2.26 (-6.53 to 2.01) | 0.301 | 0.16 |
| WHODAS | 67 | 13.63 (9.12 to 18.14) | -9.88 (-15.93 to -3.84) |  | 63 | 11.66 (8.16 to 15.16) | -12.21 (-18.12 to -6.30) | -2.32 (-10.78 to 6.13) | 0.590 | 0.08 |
| Secondary outcomes |  |  |  |  |  |  |  |  |  |  |
| Remission on AUDIT b | 67 | 47.8 (35.96 to 59.82) | - |  | 63 | 57.1 (44.52 to 68.90) | - | 1.24 (0.89 to 1.75) | 0.209 |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Endline (12 months)a** |  |  |  |  |  |  |  |  |  |  |
| Primary outcomes |  |  |  |  |  |  |  |  |  |  |
| AUDIT | 66 | 16.48 (13.83 to 19.13) | -9.00 (-12.03 to -5.97) |  | 66 | 14.61 (11.76 to 17.46) | -11.62 (-14.82 to -8.43) | -2.62 (-7.02 to 1.78) | 0.243 | 0.18 |
| WHODAS | 66 | 16.33 (12.54 to 20.12) | -7.19 (-12.72 to -1.66) |  | 66 | 12.53 (9.06 to 15.99) | -11.34 (-17.23 to -5.45) | -4.15 (-12.23 to 3.93) | 0.314 | 0.16 |
| Secondary outcomes |  |  |  |  |  |  |  |  |  |  |
| Remission on AUDIT b | 66 | 27.3 (17.77 to 39.42) | - |  | 66 | 37.9 (26.88 to 50.28) | - | 1.57 (0.93 to 2.65) | 0.088 |  |

AUDIT=Alcohol Use Disorder Identification Test; BL=Baseline; CAP=Counselling for Alcohol Problems; CI=confidence intervals; EUC=enhanced usual care; RR=risk ratio; WHODAS=WHO Disability Assessment Schedule; a Control group is the reference group; b defined as AUDIT<9 at follow-up