**Table 1: Participant Characteristics**

|  |  |
| --- | --- |
|  | N (%) or Mean (SD) |
|  | **PHQ-9** | **EPDS** | **HADS-D** |
| Total participants | 34,529 | 16,813 | 16,768 |
| Age |  |  |  |
| 18 - 24 | 2,871 (8.3%) | 3,202 (19.0%) | 588 (3.5%) |
| 25 - 34 | 6,908 (20.0%) | 9,217 (54.8%) | 1,177 (7.0%) |
| 35 - 44 | 6,675(19.3%) | 4,316 (25.7) | 2,098 (12.5%) |
| 45 - 54 | 6,573 (19.0%) | 63 (0.4%) | 3,432 (20.5%) |
| 55 - 64 | 5,748 (16.6%) | – | 3,847 (22.9%) |
| 65 - 74 | 3,478 (10.1%) | – | 3,203 (19.1%) |
| > 74 | 2,276 (6.6%) | – | 2,423 (14.5%) |
| Missing |  | 15 (0.1%) | – |
| Sex |  |  |  |
| Female | 20,372 (59.0%) | 16,813 (100%) | 8,859 (52.8%) |
| Male | 14,157 (41.0%) | – | 7,909 (47.2%) |
| Region where the study was conducteda |  |  |  |
| African Region | 4,302 (12.5%) | 923 (5.5%) | 0 (0%) |
| Eastern Mediterranean Region | 200 (0.6%) | 40 (0.2%) | 135 (0.8%) |
| European Region | 6,018 (17.4%) | 4,495 (26.7%) | 9,676 (57.7%) |
| Region of Americas | 10,268 (29.7%) | 8,910 (53.0%) | 1,967 (11.7%) |
| South-East Asia Region | 834 (2.4%) | 1,106 (6.6%) | 0 (0%) |
| Western Pacific Region | 12,907 (37.4%) | 1,339 (8.0%) | 4,990 (29.8%) |
| Human Development Indexb |  |  |  |
| Very high | 26,144 (75.7%) | 13,426 (79.9%) | 16,379 (97.7%) |
| High | 4,750 (13.8%) | 2,002 (11.9%) | 389 (2.3%) |
| Low or medium | 3,635 (10.5%) | 1,385 (8.2%) | 0 (0%) |
| Setting |  |  |  |
| Non-medical care | 10,654 (30.9%) | 28 (0.2%) | 1,813 (10.8%)  |
| Mixed inpatient and outpatient care | 130 (0.4%) | 972 (5.8%) | 247 (1.5%) |
| Inpatient care | 2,929 (8.5%) | 504 (3.0%) | 7,498 (44.7%) |
| Outpatient care | 20,816 (60.3%) | 15,309 (91.1%) | 7,210 (43.0%) |
| Administration mode |  |  |  |
| Self-administration |  |  |  |
| Research or medical setting |  |  |  |
| Pen-and-paper | 15,176 (44.0%) | 2,618 (15.6%) | 9,721 (58.0%) |
| Electronic | 369 (1.1%) | 450 (2.7%) | 164 (1.0%) |
| Private setting (e.g., home) |  |  |  |
| Pen-and-paper  | 4,571 (13.2%) | 2,013 (12.0%) | 3,697 (22.0%) |
| Electronic | 1,142 (3.3%) | 0 (0%) | 0 (0%) |
| Interview-administration |  |  |  |
| In-person | 7,494 (21.7) | 10,169 (60.4%) | 2,653 (15.8%) |
| Videoconference | 0 (0%) | 0 (0%) | 0 (0%) |
| Phone | 5,185 (15.0%) | 731 (4.3%) | 0 (0%) |
| Mixed Methods | 592 (1.7%) | 832 (4.9%) | 533 (3.2%) |
| Major depression based on diagnostic interview | 3,757 (10.9%) | 1,630 (9.7%) | 1,676 (9.7%) |
| Total PHQ-9, EPDS, or HADS-D score | 5.3 (5.4) | 6.4 (5.6) | 6.0 (4.0) |

PHQ-9: Patient Health Questionnaire-9; EPDS: Edinburgh Postnatal Depression Scale; HADS-D: Hospital Anxiety and Depression Scale – Depression subscale.

aRegions based on World Health Organization designations ([www.who.int/countries](https://can01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.who.int%2Fcountries&data=05%7C02%7Cbrett.thombs%40mcgill.ca%7C3bebd15c9c4b46d17d1108dbf8e08a1e%7Ccd31967152e74a68afa9fcf8f89f09ea%7C0%7C0%7C638377415519987332%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=FIreo2qspMvYBcJGaWTonXY8XpCmXRkmubHRM8UIL84%3D&reserved=0)); bUnited Nations Human Development Index.

**Table 2: Correlation and Intraclass Correlation Coefficients for the PHQ-9, EPDS, and HADS-D**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **PHQ-9** | **EPDS** | **HADS-D** |
| **Comparison** | **Pearson correlation** **(95% confidence interval)** | **ICC****(95% confidence interval)** | **Pearson correlation** **(95% confidence interval)** | **ICC****(95% confidence interval)** | **Pearson correlation** **(95% confidence interval)** | **ICC****(95% confidence interval)** |
| Self- versus interview-administration | 0.999 (0.999, 0.999) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) |
| Self-administration: Research or medical versus private  | 0.999 (0.999, 0.999) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) |
| Self-administration:pen-and-paper versus electronic | 0.997 (0.997, 0.997) | 0.999 (0.999, 0.999) | 0.998 (0.998, 0.998) | 0.995 (0.995, 0.995) | ----- | ----- |
| Interview-administration: In-person versus phone | 0.999 (0.999, 0.999) | 1.000 (1.000, 1.000) | 1.000 (1.000, 1.000) | 0.999 (0.999, 0.999) | ----- | ----- |

EPDS: Edinburgh Postnatal Depression Scale; HADS-D: Hospital Anxiety and Depression Scale - Depression subscale; ICC: Intraclass Correlation Coefficient; PHQ-9: Patient Health Questionnaire-9

**Table 3: Standardized mean difference (SMD) based on administration mode with and without DIF adjustment**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **PHQ-9** | **EPDS** | **HADS-D** |
| **Comparison** | **Unadjusted SMD****(95% confidence interval)** | **DIF-adjusted SMD****(95% confidence interval)** | **Unadjusted SMD****(95% confidence interval)** | **DIF-adjusted SMD****(95% confidence interval)** | **Unadjusted SMD****(95% confidence interval)** | **DIF-adjusted SMD****(95% confidence interval)** |
| Self- versus interview-administration | -0.057 (-0.086, -0.027) | -0.013 (-0.062, 0.038) | 0.273 (0.233, 0.314) | 0.276 (0.226, 0.326) | 0.022 (-0.026, 0.071) | 0.009 (-0.042, 0.061) |
| Self-administration: Research or medical versus private  | 0.238 (0.188, 0.289) | 0.229 (0.177, 0.281) | 0.123 (0.028, 0.217) | 0.157 (0.055, 0.259) | 0.000 (-0.044, 0.045) | -0.008 (-0.063, 0.047) |
| Self-administration:pen-and-paper versus electronic | 0.274 (0.208, 0.341) | 0.144 (0.047, 0.240) | -0.206 (-0.326, -0.087) | -0.140 (-0.298, 0.017) | ----- | ----- |
| Interview-administration: In-person versus phone | 0.597 (0.521, 0.674) | 0.638 (0.526, 0.750) | -0.380 (-0.467, -0.292) | -0.367 (-0.497, -0.237) | ----- | ----- |

EPDS: Edinburgh Postnatal Depression Scale; HADS-D: Hospital Anxiety and Depression Scale - Depression subscale; ICC: Intraclass Correlation Coefficient; PHQ-9: Patient Health Questionnaire-9; SMD: standardized mean difference