**Data Set for Part B: Biostatistics**

**Data and descriptions**

**i. Rationale**

Depression affects mental health among women in their estrogen-producing years more often than men or postmenopausal women. Estrogen is also linked to mood disruptions that occur only in women - premenstrual syndrome, premenstrual dysphoric disorder, and postpartum depression. Therefore, a teaching hospital in northeast of Thailand aim to investigate the efficacy of estrogen oil capsule in treating postnatal depression. Thai women who met screening criteria were randomly assigned to either a placebo control group (group B, n=25) or estrogen oil capsule group (group A, n=24). Prior to the first treatment, all patients took the Edinburgh Postnatal Depression Scale (EPDS). The EPDS data was collected monthly for six months once the treatment began. Higher scores on the EDPS are indicative of higher levels of depression.

**ii. Objective:**  To investigate efficacy of estrogen oil capsule in treating postnatal depression in Thai women.

**iii. Study design:** A Randomized Controlled Trial

**iv.**  **Data dictionary**

group A = Estrogen B = Placebo

age Age in year

height Height in centimeters at baseline

weight Weight in kilograms at baseline

pdepres Depression score at baseline

depres1 Depression score at Month1

depres3 Depression score at Month3

depres6 Depression score at Month6

**v. Data**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| id | group | age | weight | height | pdepres | depres1 | depres3 | depres6 |
| 1 | B | 25 | 45 | 155 | 18 | 17 | 15 | 15 |
| 2 | B | 34 | 51 | 157 | 27 | 26 | 18 | 10 |
| 3 | B | 23 | 37 | 145 | 16 | 17 |  |  |
| 4 | B | 34 | 57.5 | 153 | 17 | 14 | 17 | 12 |
| 5 | B | 44 | 45 | 157 | 15 | 12 | 8 | 5 |
| 6 | B | 21 | 70 | 167 | 20 | 19 | 9 | 5.05 |
| 7 | B | 33 | 51 | 165 | 16 | 13 | 9 | 7 |
| 8 | B | 22 | 59 | 146 | 28 | 26 | 20 | 13 |
| 9 | B | 26 | 79.8 | 171 | 28 | 26 | 19 | 9 |
| 10 | B | 29 | 114.8 | 167 | 25 | 9 | 15 | 20 |
| 11 | B | 25 | 79 | 168 | 24 | 14 | 6 | 6 |
| 12 | B | 23 | 56 | 168 | 16 | 19 | 14 | 11 |
| 13 | B | 44 | 45 | 157 | 26 | 13 | 12 | 9 |
| 14 | B | 18 | 70 | 167 | 21 | 7 | 6 | 5 |
| 15 | B | 38 | 51 | 165 | 21 | 18 | 12 | 9 |
| 16 | B | 36 | 59 | 146 | 22 | 18 | 9 | 8 |
| 17 | B | 38 | 79.8 | 171 | 26 | 19 | 22 | 13 |
| 18 | B | 20 | 49.3 | 158 | 19 | 19 | 8 | 6 |
| 19 | B | 23 | 66.8 | 171 | 22 | 20 | 20 | 13.73 |
| 20 | B | 28 | 51 | 162 | 16 | 7 | 12 | 12 |
| 21 | B | 23 | 103 | 175 | 21 | 19 | 16 | 15 |
| 22 | B | 34 | 63.2 | 165 | 20 | 16 | 17 | 18 |
| 23 | B | 24 | 41.2 | 151.8 | 17 | 15 | 11 | 7 |
| 24 | B | 51 | 40.7 | 155 | 22 | 20 | 17 | 10 |
| 25 | B | 33 | 55.6 | 165 | 19 | 16 | 9 | 8 |
| 26 | A | 42 | 64.6 | 160 | 21 | 7 | 4.19 | 3.45 |
| 27 | A | 26 | 83.3 | 163 | 18 | 19 | 14 | 9 |
| 28 | A | 29 | 50.3 | 160 | 21 | 13 | 9 | 6 |
| 29 | A | 25 | 63.8 | 156 | 27 | 8 | 15 | 7 |
| 30 | A | 23 | 59.4 | 157.9 | 15 | 8 | 10 | 5.96 |
| 31 | A | 24 | 60.9 | 166 | 24 | 14 | 13 | 15 |
| 32 | A | 36 | 48.7 | 165 | 15 | 15 | 11 | 8 |
| 33 | A | 24 |   | 160 | 17 | 9 | 3 | 2 |
| 34 | A | 23 | 72.8 | 163 | 20 | 7 | 7 | 6 |
| 35 | A | 35 | 117 | 162 | 18 | 8 | 1 | 1 |
| 36 | A | 37 | 63.2 | 165 | 28 | 11 | 3 | 2 |
| 37 | A | 21 | 41.2 | 151.8 | 21 | 7 | 6 | 4.97 |
| 38 | A | 33 | 40.7 | 155 | 18 | 8 | 4 | 6 |
| 39 | A | 38 | 55.6 | 165 | 27.46 | 22 | 24 | 23 |
| 40 | A |  | 64.6 | 160 | 19 | 14 | 15 | 6 |
| 41 | A | 43 | 45 | 155 | 20 | 13 | 7 | 11 |
| 42 | A | 34 | 51 | 157 | 16 | 17 |  |  |
| 43 | A | 35 | 37 | 145 | 21 | 19 | 9 | 7 |
| 44 | A | 36 | 57.5 | 153 | 23 | 11 | 5 | 3 |
| 45 | A | 29 | 45 | 157 | 23 | 16 | 8 | 6 |
| 46 | A | 26 | 70 | 167 | 24 | 16 | 11 | 11 |
| 47 | A | 27 | 51 | 165 | 25 | 20 | 16 | 6 |
| 48 | A | 25 | 59 | 146 | 22 | 15 | 12 | 6.5 |
| 49 | A | 28 | 79.8 | 171 | 20 | 7 | 1 | 2 |

\*\*\*\*\*\*\*\*Good luck \*\*\*\*\*\*\*\*