# IPWE-EMBARC

*2020-04-15*

| Covariate name | Description |
|---|---|
| w0_4165 | A not B Interference Reaction Time in negative trials |
| w0_4167 | A not B Interference Reaction Time in non-negative trials |
| w0_4163 | A not B Interference Reaction Time in all trials |
| w0_4162 | A not B Itotal number of correct trials |
| w0_4169 | Median Reaction time for correct trials in the Choice reaction time task |
| w0_1844 | Number of valid recalled words in the Word Fluency task |
| w0_1916 | Flanker Accuracy, an Accuracy effect is a measure of interference effects; Higher scores are indicative of increased interference effects (i.e., reduced cognitive control). |
| w0_1915 | Flanker Reaction Time, a measure of interference effects; Higher scores are indicative of increased interference effects (i.e., reduced cognitive control). |
| w0_1920 | Accuracy effect, it measures post-conflict behavioral adjustments; Higher values indicate better cognitive control |
| age_evaluation | Age at baseline |
| sex | Sex |
| hamd17_baseline | Severity of depression at baseline |
| dur_MDE | Duration of current major depressive episode |
| age_MDE | Age of first major depressive episode |
| Greg_FH | Family history of psychotic and depressive disorder (4 ordered levels) |
| fatigue | level of fatigue at baseline |
| hypersomnia | presence/absence q789of hypersomnia at baseline |
| axis2 | Severity of the most severy Axis II diagnosis at baseline |
| anger_attack | Severity of anger attacks at baseline |
| anxious | Severity of anxiety at baseline |

l;op2

placebo 88; drug 78 placebo 87; drug 73

```
sapply(dat, function(x) sum(is.na(x)))
```

```
## ProjectSpecificId              site          Stage1TX    age_evaluation
##                 0                 0                 0                 0
##              week           score17        Chronicity          Severity
##                 0                48                 0                 0
##               Sex                 X       changeScore               sex
##                 0                 0                 0                 0
##   hamd17_baseline           dur_MDE           age_MDE          Greg_FH
##                 0                 7                 0                 0
##           fatigue       hypersomnia             axis2      anger_attack
##                 7                 0                 0                 0
##           anxious           w0_4165           w0_4167           w0_4163
##                 0                21                21                21
##           w0_4162           w0_4169           w0_1844           w0_1916
##                21                21                 7                 7
##           w0_1915           w0_1920               trt                 y
##                 0                 0                 0                48
```

```
##                t1                tt              subj
##                 0                 0                 0
```

**setting 1**

(17 covariates)

set1: c(dur_MDE,age_MDE, Greg_FH,fatigue, hypersomnia, axis2, anger_attack, anxious, w0_4165, w0_4167, w0_4163, w0_4162, w0_4169, w0_1844, w0_1916, w0_1915, w0_1920)

**setting 2**

(9 covariates)

set2: c(hamd17_baseline, age_evaluation,dur_MDE, age_MDE, axis2, w0_1844,w0_1916, w0_1915, w0_1920)

(baseline biosignatures combination in Parks paper)

**setting 3**

(19 covariates)

set3 = set1 ∪ set2 = c(hamd17_baseline, age_evaluation, age_MDE, axis2, dur_MDE, Greg_FH,fatigue, hypersomnia, anger_attack, anxious, w0_4165, w0_4167, w0_4163, w0_4162, w0_4169, w0_1844, w0_1916, w0_1915, w0_1920)

**setting 4**

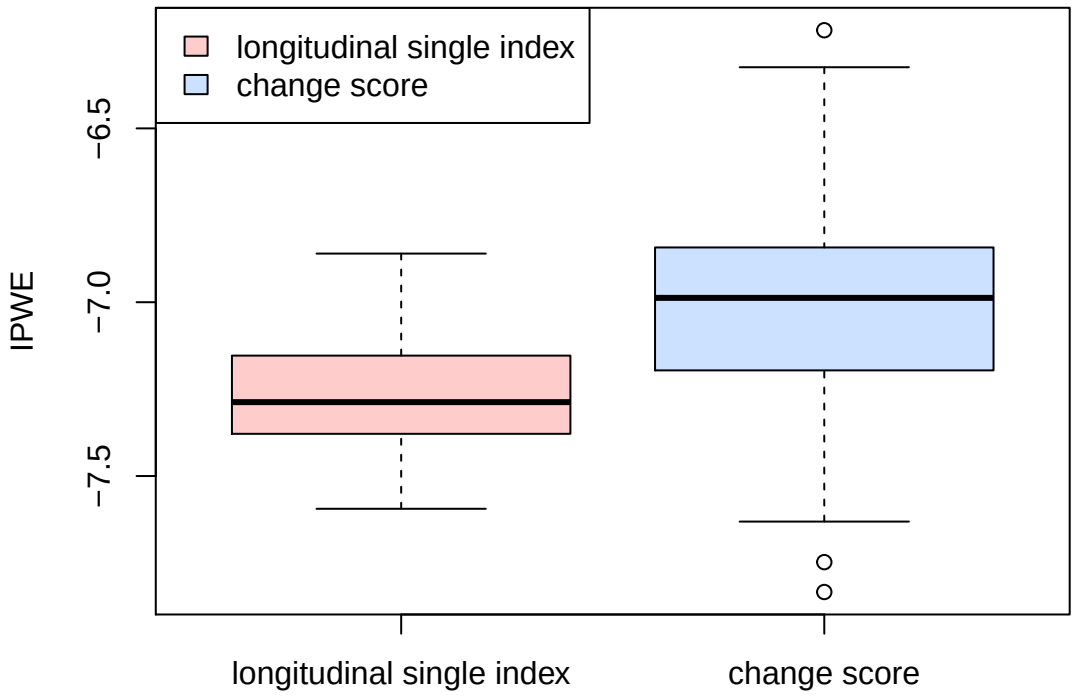
(8 covariates)

set4 = c(age_evaluation, dur_MDE, age_MDE, axis2, w0_1844,w0_1916, w0_1915, w0_1920)

(covariates without NAs)

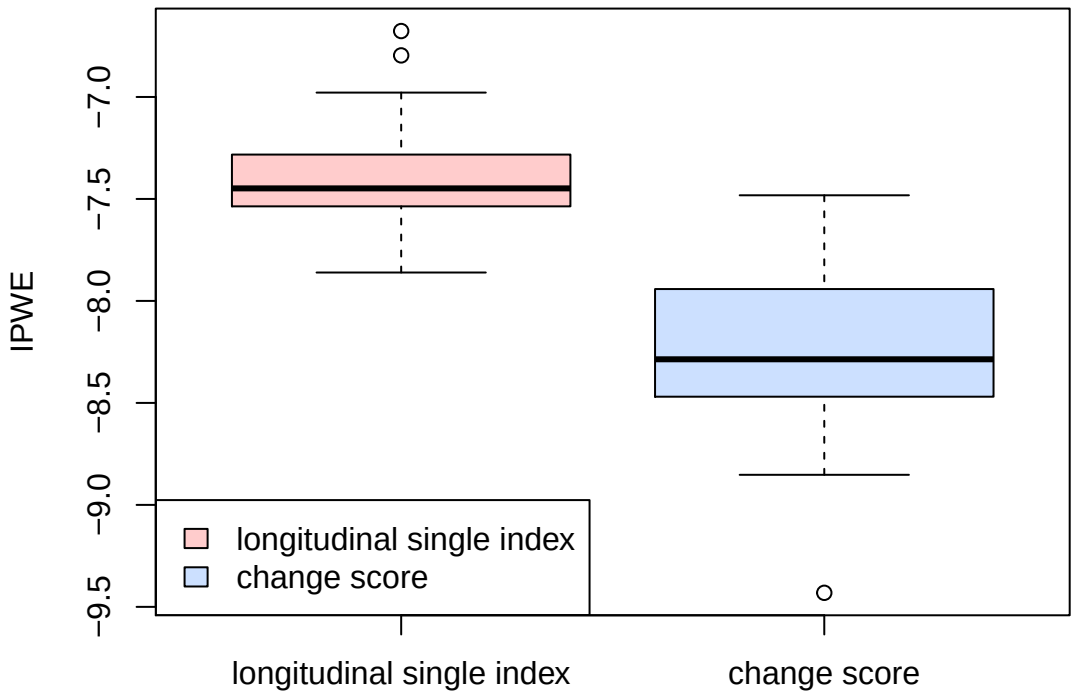
# Setting1

| method | mean | sd |
|---|---|---|
| longitudinal single index | -7.2669 | 0.1703 |
| linear change score | -7.0181 | 0.3342 |



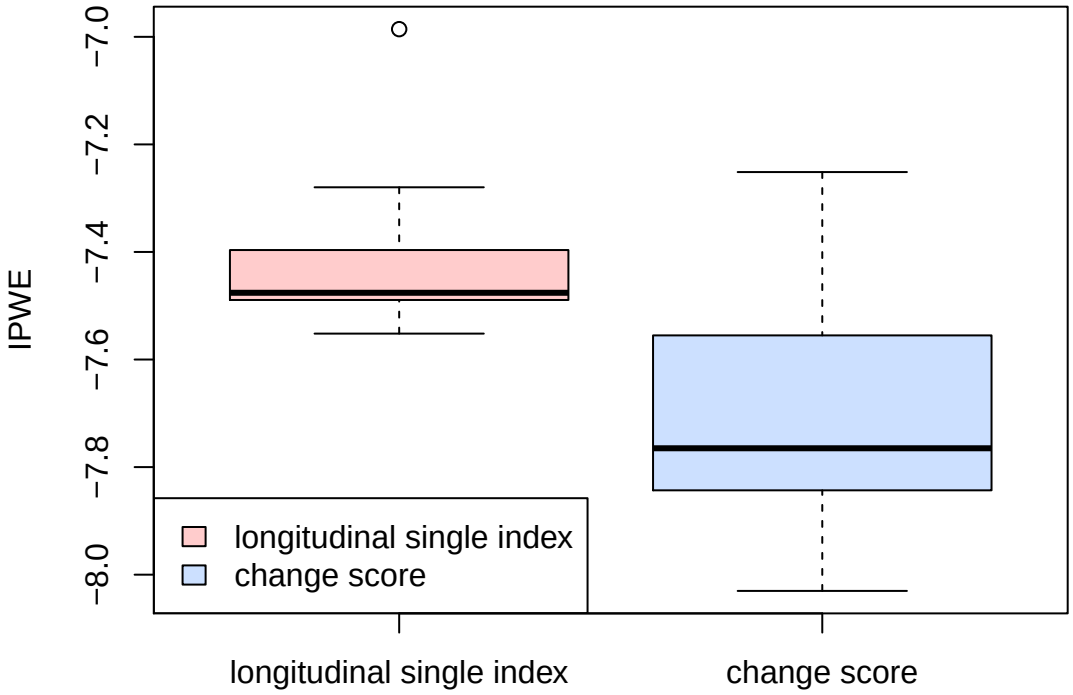

## Setting2

| method | mean | sd |
|---|---|---|
| longitudinal single index | -7.4015 | 0.2177 |
| linear change score | -8.2263 | 0.3739 |



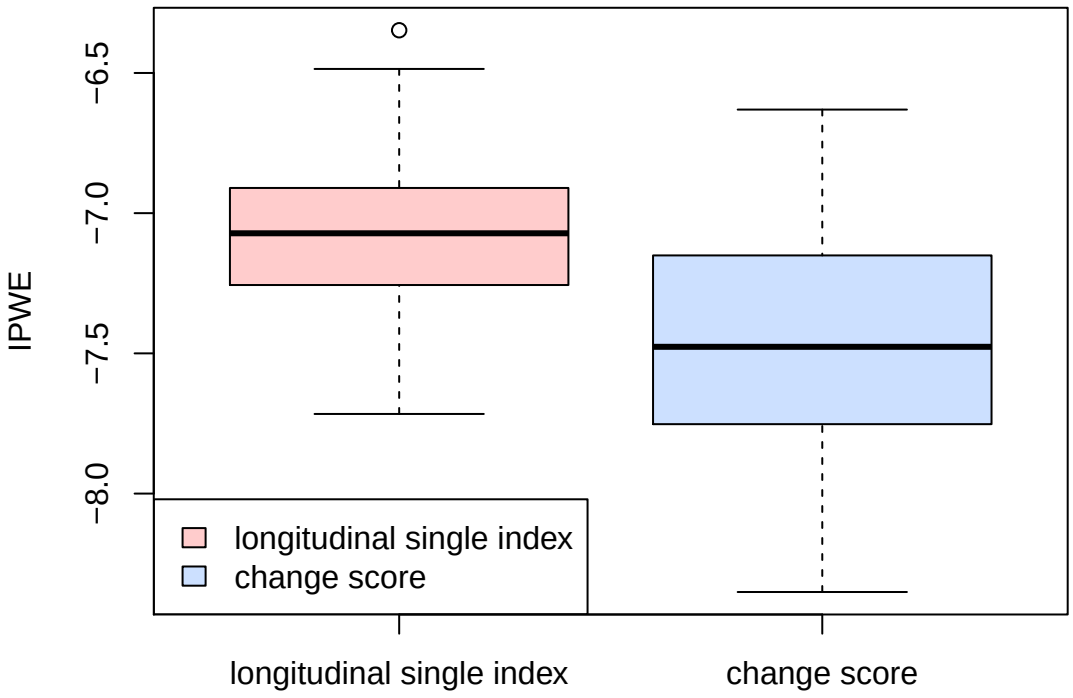
## Setting3

| method | mean | sd |
|---|---|---|
| longitudinal single index | -7.4069 | 0.1654 |
| linear change score | -7.6885 | 0.2416 |




## Setting4

| method | mean | sd |
|---|---|---|
| longitudinal single index | -7.0651 | 0.2665 |
| linear change score | -7.4669 | 0.4243 |


IPWE
−6.5
−7.0
−7.5
−8.0
longitudinal single index
change score
longitudinal single index
change score