**Instructions**

**After preparing your data ready, please**

**Step 1:**

save all of your input data files under the same folder together with the R code, “ModelbyPRScutoffs.R”.

**Step 2:**

Run R code given below to get the final output file.

**setwd("your location")**

**source("ModelbyPRScutoffs.R")**

**Step 3:**

Send us the final output file, “finaloutput\_onesite.Rdat”.

**Step 4 (Optional):**

Check output summary statistics (“summary\_statistics.csv”) and output log file (“R\_log.txt”).

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| **R Software Info** | |
| **R packages needed** | tableone |

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| **Input and Output Files** | | |
|  | **Filename**  **(case sensitivity)** | **Description** |
| **Input Files** | dt\_otherthanPRS.csv | A csv data file includes all variables **EXCEPT** PRS.  **Only European subjects are included.** |
| dt\_prs\_avghippo.csv | A csv data file includes PRS scores for the outcome of **avghippo**. |
| dt\_prs\_avghippo2.csv | A csv data file includes PRS scores for the outcome of **avghippo2**. |
| dt\_prs\_avgthal.csv | A csv data file includes PRS scores for the outcome of **avgthal**. |
| dt\_prs\_avgcaud.csv | A csv data file includes PRS scores for the outcome of **avgcaud**. |
| dt\_prs\_avgput.csv | A csv data file includes PRS scores for the outcome of **avgput**. |
| dt\_prs\_avgpal.csv | A csv data file includes PRS scores for the outcome of **avgpal**. |
| dt\_prs\_avgamyg.csv | A csv data file includes PRS scores for the outcome of **avgamyg**. |
| dt\_prs\_avgaccumb.csv | A csv data file includes PRS scores for the outcome of **avgaccumb**. |
| **Output Files** | finaloutput\_onesite.Rdat | A R dataset includes all output datasets. |
| summary\_statistics.csv | A csv file contains summary statistics of subjects in the dt\_otherthanPRS.csv file. |
| R\_log.txt | A text file helps track R code running completeness. |

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| **Input Data file: each element in dt\_prs\_\* files** | | | |
| **Variable** | **Type** | **Description** | **Variable Name in R**  **(case sensitive)** |
| Unique Identifier | Char | the unique identifier in input data files | IID |
| Polygenic risk scores (PRS) | Num | PRS from using 1001 different p-value cut-offs as output by Adam’s PRSice code. | 0.0001, 0.0011, 0.0021, …, 0.9991, 1.0001 |

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| **Input Data file: dt\_otherthanPRS** | | | |
| **Variable** | **Type** | **Description** | **Variable Name in R**  **(case sensitive)** |
| Unique Identifier | Char | the unique identifier in dt\_otherthanPRS and dt\_prs1- dt\_prs8 | IID |
| Age | Num |  | age |
| Gender | Num | values: 0, 1. 0=F and 1=M. | gender |
| Current PTSD | Num | values: 0, 1. | current\_dx |
| Current PTSD severity score | Num |  | current\_sx |
| Childhood trauma | Num | values: 0, 1, 2. | child\_trauma |
| Childhood trauma | Num | values: 0, 1. | child\_trauma2 |
| 1st Principle component | Num | Principle component computed using European subjects. | PC1 |
| 2nd Principle component | Num |  | PC2 |
| 3rd Principle component | Num |  | PC3 |
| 4th Principle component | Num |  | PC4 |
| ICV | Num |  | ICV |
| Average hippo | Num |  | Avg\_hippo |
| Average hippo2 | Num | Identical to average hippo. | Avg\_hippo2 |
| Average thal | Num |  | Avg\_thal |
| Average caud | Num |  | Avg\_caud |
| Average put | Num |  | Avg\_put |
| Average pal | Num |  | Avg\_pal |
| Average amyg | Num |  | Avg\_amyg |
| Average accumb | Num |  | Avg\_accumb |