analysis_1

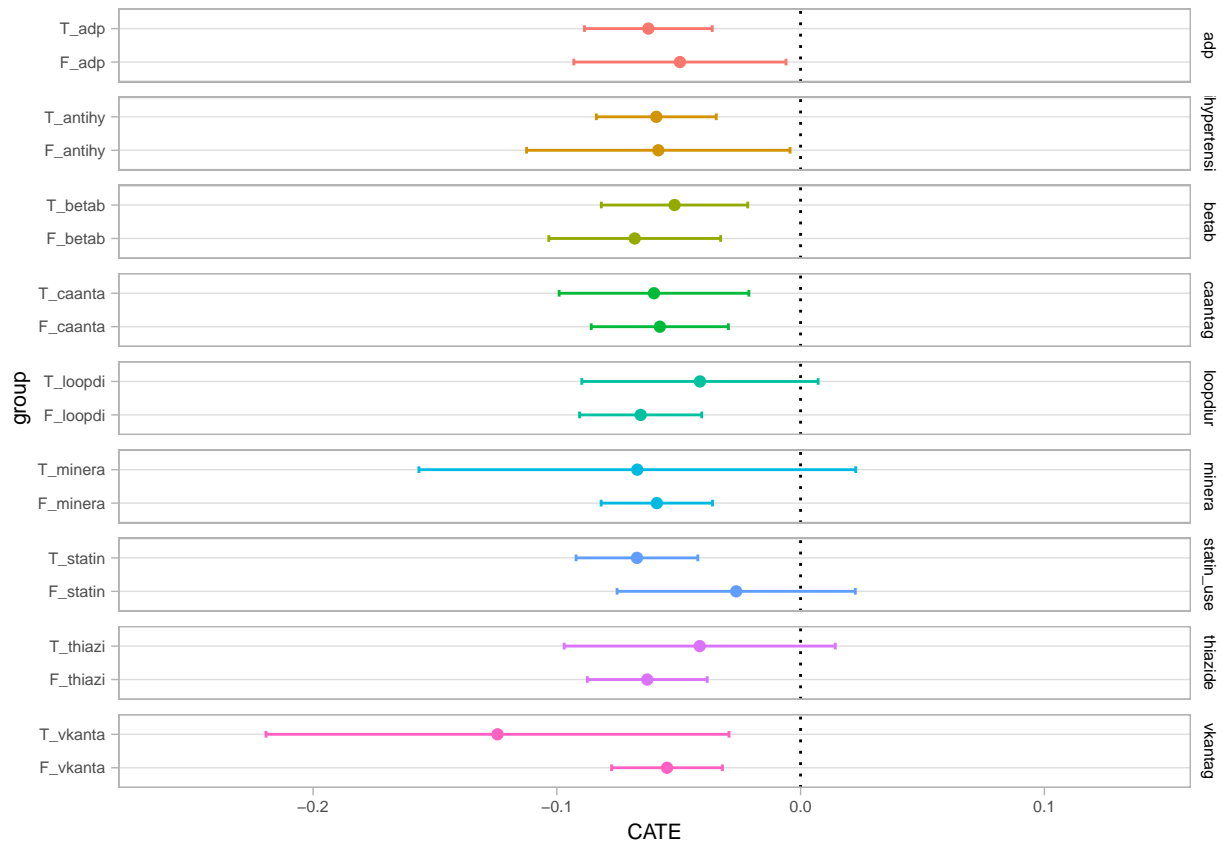## Haodong Li

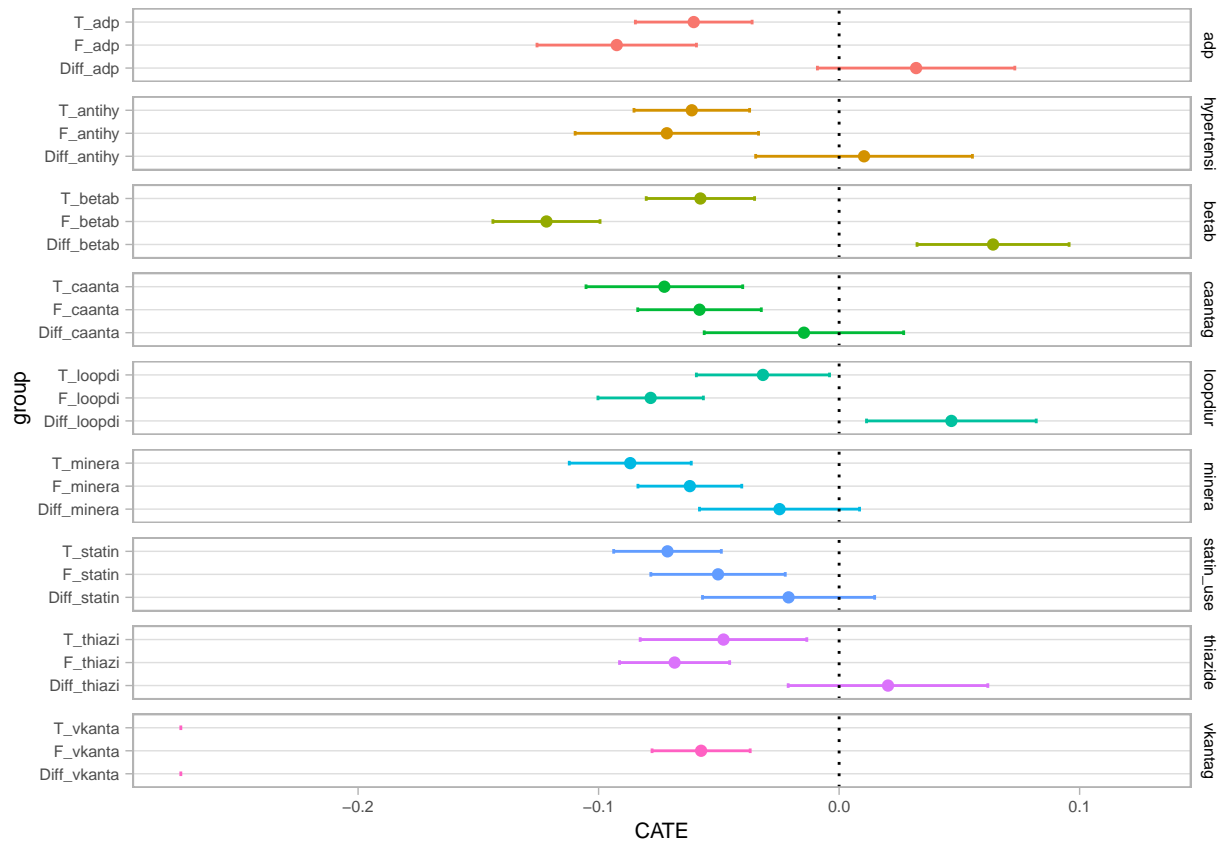### 2023-02-03

1. Stratified TMLE

```
df_strat <- readRDS("~/Repo/te_vim/data/df_strat.RDS")
p_cate_strat <- plot_tmle_strat(cm_names, df_strat)
p_cate_strat
```


2. TMLE Effect Modification

```
df_em <- readRDS("~/Repo/te_vim/data/df_em.RDS")
p_cate_strat <- plot_tmle_em(cm_names, df_em)
p_cate_strat
```

```
## Warning: Removed 2 rows containing missing values (geom_point).
```

3. VTE Estimation

```r
res_vte <- readRDS("~/Repo/te_vim/data/res_vte_t.RDS")

print(paste0("VTE TMLE:"))
```

```
## [1] "VTE TMLE:"
```

```r
print(paste0("coef:", res_vte$res_tmle$coef))
```

```
## [1] "coef:0.00103738411977434"
```

```r
print(paste0("ci low:", res_vte$res_tmle$ci_l))
```

```
## [1] "ci low:-0.000530827806431251"
```

```r
print(paste0("ci up:", res_vte$res_tmle$ci_u))
```

```
## [1] "ci up:0.00260559604597994"
```

```r
print(paste0("VTE EE:"))
```

```
## [1] "VTE EE:"
```

```r
print(paste0("coef:", res_vte$res_ee$coef))
```

```
## [1] "coef:9.12430111129188e-05"
```

```r
print(paste0("ci low:", res_vte$res_ee$ci_l))
```

```
## [1] "ci low:-0.000883378373996228"
```

```
print(paste0("ci up:", res_vte$res_ee$ci_u))
```

```
## [1] "ci up:0.00106586439622207"
```
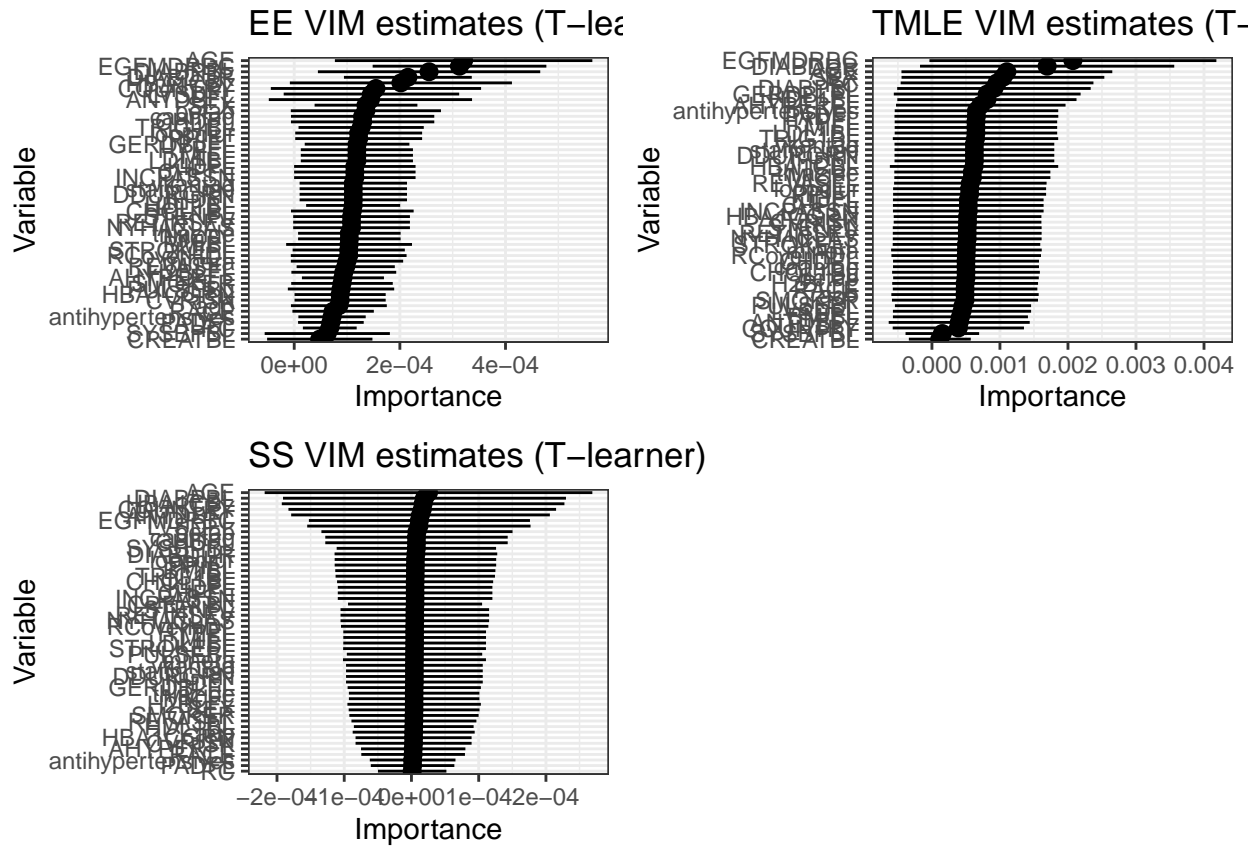
4. VIM Estimation

Figure 1: VIM estiamtes