Replication of OHDSI study: Estimation

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⚖ Population Level Effect Estimation - Comparative Cohort Analysis #804

[SCYou]TicagrelorVsClopidogrelReplicaTutorial

Specification | Utilities

enter a description here (1000 characters max)

VIEW: **Full Specification** | Comparisons | Analysis Settings | Evaluation Settings

⚖ Comparative Cohort Settings

👥 Comparisons

Show [10] entries

Remove	Target	Comparator	Outcomes
❌	[SCYou]Ticagrelor	[SCYou]Clopidogrel	[SCYou]Acute Myocardia (1+ more outcome)

Description	Time At Risk Start	Time At Risk End	Minimum Time At Risk	Adjustment Strategy	Outcome Model
On-treatment: PS stratification	1d from cohort start date	0d from cohort end date	1d	Stratification (stratum: 5)	cox
On-treatment. 1-to-1 matching	1d from cohort start date	0d from cohort end date	1d	1:1 matching	cox
ITT: PS stratification	1d from cohort start date	365d from cohort start date	1d	Stratification (stratum: 5)	cox
ITT. 1-to-1 matching	1d from cohort start date	365d from cohort start date	1d	1:1 matching	cox
ITT(30-day blank): PS stratification	30d from cohort start date	365d from cohort start date	1d	Stratification (stratum: 5)	cox
ITT(30-day blank). 1-to-1 matching	30d from cohort start date	365d from cohort start date	1d	1:1 matching	cox

Should only the first exposure per subject be included?

No ▼

Remove subjects that are in both the target and comparator cohort?

Keep First ▼

Restrict the analysis to the period when both exposures are observed?

Yes ▼

The mininum required continuous observation time prior to index date for a person to be included in the cohort.

0 ▼

If either the target or the comparator cohort is larger than this number it will be sampled to this size. (0 for this value in

0 ▼

Remove subjects that have the outcome prior to the risk window start?

Yes ▼

How many days should we look back when identifying prior outcomes?

99999 ▼

If a subject is in multiple cohorts, should time-at-risk be censored when the new time-at-risk start to prevent overlap?

No ▼

⚙️ Covariate Settings

Using OHDSI covariates for propensity score model. ([Click to view details](#))

What concepts do you want to **include** in baseline covariates in the propensity score model? (Leave blank if you want to include everything)

Should descendant concepts be added to the list of included concepts?

No ⌄

What concepts do you want to **exclude** in baseline covariates in the propensity score model? (Leave blank if you want to include everything)

[SCYou]Ticagrelor,Clopidogrel

Should descendant concepts be added to the list of excluded concepts?

Yes ⌄

A comma delimited list of covariate IDs that should be restricted to:

⏲ Time At Risk

Define the time-at-risk window start, relative to

[1 ▼] days from [cohort start date ⌄]

Define the time-at-risk window end:

[365 ▼] days from [cohort start date ⌄]

The minimum number of days at risk?

[1 ▼]

How do you want to trim your cohorts based on the propensity score distribution?

None ▾

Do you want to perform matching or stratification?

Match on propensity score ▾

What is the maximum number of persons in the comparator arm to be matched to each person in the target target person):

1 ▾

What is the caliper for matching:

0.2

What is the caliper scale:

Standardized Logit ▾

What is the maximum number of people to include in the propensity score model when fitting? Setting this n

250000 ▾

Test each covariate for correlation with the target assignment? If any covariate has an unusually high correlati

No ▾

If an error occurs, should the function stop? Else, the two cohorts will be assumed to be perfectly separable.

No ▾

Specify the statistical model used to estimate the risk of outcome between target and comparator cohorts:

Cox proportional hazards ∨

Should the regression be conditioned on the strata defined in the population object (e.g. by matching or stratifying on propensity scores)?

No ∨

Whether to use the covariate matrix in the cohortMethodDataObject in the outcome model.

No ∨

Use inverse probability of treatment weighting?

No ∨

On-treatment

Time At Risk

Define the time-at-risk window start, relative to target/comparator cohort entry:

1 ▼ days from cohort start date ▼

Define the time-at-risk window end:

0 ▼ days from cohort end date ▼

The minimum number of days at risk?

1 ▼

PS stratification

⚖️ Propensity Score Adjustment

How do you want to trim your cohorts based on the propensity score distribution?

[None ▼]

Do you want to perform matching or stratification?

[Stratify on propensity score ▼]

Into how many strata should the propensity score be divided? The boundaries of the strata are automatically defined to contain equal numbers of target persons:

[5 ▼]

What is the base selection of subjects where the strata bounds are to be determined? Strata are defined as equally-sized strata inside this selection.

[All ▼]

What is the maximum number of people to include in the propensity score model when fitting? Setting this number to 0 means no down-sampling will be applied:

[250000 ▼]

Test each covariate for correlation with the target assignment? If any covariate has an unusually high correlation (either positive or negative), this will throw an error.

[No ▼]

If an error occurs, should the function stop? Else, the two cohorts will be assumed to be perfectly separable.

[No ▼]