**Program Directory**

**Project:** CALIBER Statins and Cancer

**Programmer:** Barbra Dickerman

**Updated**: November 2019

*Main directory*: ucl/programs/bdickerman (unless otherwise noted)

|  |  |
| --- | --- |
| **Data Creation** | |
| Primary analysis |  |
| Raw data 🡪 Expand 2 | /Data/step1\_expand2\_statin\_main.sas |
| Expand 2 🡪 Expand 3  (Add events, censoring) | /Data/step2\_expand3\_statin\_main.sas |
| Clean  (Create clean datasets for dynamic strategies) | /Analysis/Statin/clean\_nsw/~ |
| Location of final datasets | /UCL/data/bdickerman/Final/~  (programs ending in “\_dynamic”) |
| Sensitivity analysis (increasing the grace period between successive prescriptions from 30 to 60 days) | |
| Raw data 🡪 Expand 2 | /Data/step1\_expand2\_statin\_sens\_grace.sas |
| Expand 2 🡪 Expand 3  (Add events, censoring) | /Data/step2\_expand3\_statin\_sens\_grace.sas |
| Clean  (Create clean datasets for dynamic strategies) | /Analysis/Statin/sens/grace/clean\_nsw\_sens\_grace/~ |
| Location of final datasets | /UCL/data/bdickerman/Final/~  (programs ending in “\_sens\_grace”)  Note: one name had to be shortened (vs. main analysis dataset) to fit within character limit: total\_final\_dynamic\_sens\_grace.sas |
| Sensitivity analysis (additionally adjusting for physical activity, alcohol consumption, family history of cancer, practice region, influenza vaccination in the past year, cancer screening in the past year) | |
| Raw data 🡪 Expand 2 | /Data/step1\_expand2\_statin\_sens\_life.sas |
| Expand 2 🡪 Expand 3  (Add events, censoring) | /Data/step2\_expand3\_statin\_sens\_life.sas |
| Clean  (Create clean datasets for dynamic strategies) | /Analysis/Statin/sens/life/clean\_nsw\_sens\_life/~ |
| Location of final datasets | /UCL/data/bdickerman/Final/~  (programs ending in “\_sens\_life”)  Note: one name had to be shortened (vs. main analysis dataset) to fit within character limit: total\_final\_dynamic\_sens\_life.sas |
| Sensitivity analysis (carrying forward indicators for cardiovascular disease and diabetes) | |
| Location of final datasets | /UCL/data/bdickerman/Final/~  (programs ending in “\_everdg”) |
| Alternative analysis (including prevalent users, i.e. removing washout requirement) | |
| Raw data 🡪 Expand 2 | /Data/step1\_expand2\_statin\_prevuser.sas |
| Expand 2 🡪 Expand 3  (Add events, censoring) | /Data/step2\_expand3\_statin\_prevuser.sas |
| Clean  (Create clean datasets for dynamic strategies) | /Analysis/Statin/alt/clean\_nsw\_prevuser/~  (16Apr19: only cleaning total cancer) |
| Location of final datasets | With removed exclusion criteria: washout, LDL cholesterol<5 mmol/L, but retained exclusion criteria: contraindications for statins (\*primary analysis):  /UCL/data/bdickerman/Final/~  (programs ending in “\_dynamic\_alt\_prev\_w\_excl”)  Note: one name had to be shortened (vs. main analysis dataset) to fit within character limit:  total\_dynamic\_alt\_prev\_w\_excl  Note: Created for total cancer and death only. |
| **Data Analysis** | |
| Primary analysis |  |
| Table 1 (target trial specification, emulation) | N/A |
| Table 2 (baseline characteristics) | /Analysis/Statin/clean\_nsw/~  (at the end of each cleaning program) |
| Table 3 (primary results) | /Analysis/Statin/table2\_nsw/~ |
| Table S1 (stratified results) | /Analysis/Statin/ table3\_nsw/~ |
| Figure 2 (survival curves and differences for total cancer) | /Analysis/Statin/surv\_nsw/~ |
| Sensitivity analysis (expending the allowable gap between successive prescriptions from 30 to 60 days) | |
| Table S2 | /Analysis/Statin/sens/grace/table2\_nsw\_sens\_grace/~ |
| Sensitivity analysis (additionally adjusting for physical activity, alcohol consumption, family history of cancer, practice region, influenza vaccination in the past year, cancer screening in the past year) | |
| Table S3 | /Analysis/Statin/sens/life/table2\_nsw\_sens\_life/~ |
| Sensitivity analysis (carrying forward indicators for cardiovascular disease and diabetes) | |
| Table S4 | /Analysis/Statin/sens/everdg/ |
| Sensitivity analysis (truncating weights at 99.5th percentile) | |
| Table S5 | /Analysis/Statin/sens/995/table2\_nsw\_sens\_995/~ |
| Sensitivity analysis (additionally applying weights for censoring due to loss to follow-up) | |
| Table S6 | /Analysis/Statin/sens/ipcw/table2\_nsw\_sens\_ipcw/~ |
| Comparison to previous observational studies | |
| Results Text | /Analysis/Statin/alt/analysis\_statin\_alt\_caco\_errors.sas |