

Appendix S1

SUPPLEMENTARY MATERIALS AND METHODS

Registries

All Danish inhabitants are shortly after birth assigned a unique ten-digit Civil Personal Register (CPR) number that makes easy record-linkage on a personal level possible (23). All filled prescriptions in Denmark are done electronically, and the Danish National Prescription Registry (DNPRR) file these. Data includes date of prescription, and the medicine's ATC code (24, 36). The Danish National Patient Registry (DNPR) covers all hospital encounters since 1978, and has since 1994 also registered the ICD10-code related to the hospital encounter. The data used for this study (age, sex, encrypted CPR numbers, diagnosis and prescriptions) were all pulled from DNPR and DNPRR and combined with DBDS questionnaire data. Any ICD10 HS diagnoses given between 1995-2017 and all filled prescriptions from the date of inclusion into DBDS were noted.

ATC codes and drug types investigated

A drug's ATC code describes its active substance in a hierarchy of 5 levels. The first level describes the anatomical/pharmacological level the drug work on, the next 3 levels describe chemical, pharmacological or therapeutic sub-classification and the last level describes the chemical substance (24).

In this study, we used ATC codes as a surrogate for the diseases they treat. We chose this option as DNPR only includes ICD10 codes for hospital encounters, and therefore not patients treated by their general physician.

The drugs analyzed were those used to treat known HS-related comorbidities: 1) All heart medication (ATC code C02 + C03 + C07 + C08 + C09 + C10 + C01D) subdivided into Antihypertensive drugs (ATC C02), Diuretics (ATC C03), Beta-blocker (ATC C07), Calcium antagonist (ATC C08), Drugs affecting the RAS system (ATC C09), Lipid modifying drugs (ATC C10) and Vasodilators used in cardiac diseases (ATC C01D). 2) Antidiabetics (ATC A10). 3) Antidepressants (ATC N06A). 4) Thyroid drugs (ATC H03A). 5) All pain medication (ATC M01A + N02), which were subdivided into non-steroid anti-inflammatory/anti-rheumatic (NSAID) (ATC M01A), Common antipyretics (ATC N02B), Opioid analgesic (ATC N02A) and Migraine medication (ATC N02C).