**Appendix 3.** List of variables and samples

 1.  Data obtained from Estonian Biobank (EstBB)

1.3 Genotype data from EstBB

* 1. Phenotype data from EstBB
     1. General information:
        1. Sex
        2. Age at recruitment into EstBB
        3. Current age
        4. Year of birth
        5. Age, year and cause of death (if applicable)
     2. Additional information about the blood plasma samples
        1. Age at sample collection
        2. Date of sample collection
     3. Medical history and information about medications
        1. Information (age at diagnosis, date of diagnosis, number of diagnosis mentioned, exact ICD10 code (subcode) of diagnosis, the source of diagnosis information), about the diseases of interest and comorbidities: M05\*, M06\*, M07\*, M15\*, M16\*, M17\*, M18\*, M19\*, M45\*, M46\*, M03\*, L40\*, M0\*, M3\*, M07\*, M08\*, M09\*, M60\*, M1\*, M32\*, M07\*, K50\*, K51\*, K90\*, K74\*, F0\*, F2\*, F3\*, F4\*, F7\*, F8\*, F1\*, E10\*, E11\*, E12\*, E13\*, E66\*, E78\*, I70\*, I20\*-25\*, I73\*, I79\*, I63-69\*, G63\*, G59\*, H28\*, H36\* O24\*, I5\*, N17\*, N18\*, N19\*,
        2. Information (age at prescription, date of prescription, number of prescriptions, exact ACT code), about the medications associated to the rheumatic diseases and comorbidities listed in 1.4.3.1.
        3. Blood and urine analyses results conducted during before and after getting the diagnosis listed in 1.4.3.1.

1.4.2. Self-reported and data collected from the subjects during recruitment process and later via additional questionnaires (age at the time and date of collecting the information)

1.4.2.1 Anthropometry

* Weight
* Height
* BMI
* Hip and waist circumference

1.4.2.2 Measured health data

* Blood pressure
* Pulse
  + - 1. Lifestyle interventions / history
* Smoking
* Physical activity
* Dietary data
* Mental health
* Place of residence: City or municipality

2. Data generated during the study

2.1 Biomarkers measured from blood plasma (Appendix 2)

2.2. Metagenomics data (microbiome) from stool and saliva samples

3. Samlpes used for the study

3.1. Blood plasma samples collected during recruitment into EstBB

3.2. Blood plasma samples collected during recruitment into EstBB Microbiome study (EstMB)

3.3. Blood samples (serum and EDTA samples) collected during recruitment into ENDOTARGET study.

3.4. Stool and saliva samples (and DNA extracted from these samples) collected during recruitment into ENDOTARGET study.

3.3. For the plasma all samples, we also need the BPs age and time of collection.

NOTE! For some BPs there might be plasma samples from three different timepoints applied in this study.

NOTE!

We acknowledge, that there might be BPs, who have forbidden us to update their data from different databases. We will exclude these BSs from the study cohort.