Database structure and contents

A preciseKUre database contains at the moment data of 91 AKU patients. The fields in the database can be grouped into 10 macroareas:

1) PATIENTS INFORMATION and MUTATIONS: including gender, birth year, country, father’s and mother’s origin, who is affected in family, years of diagnosis and genetic information regarding the different variants, including ID in the HGD gene mutation database.

2) OXIDATIVE STRESS, INFLAMMATION AND AMYLOIDOSIS BIOMARKERS: prognostic biomarkers are biological characteristics, which monitor the evolution of a disease and are able to distinguish severity levels outlining the natural history of each.

3) BLOOD ANALYSIS: to oversee the general health status.

4) LIFESTYLE: Data regarding patients’ lifestyle, (such as cigarettes per day, alcohol units weekly, body mass index) are effective in monitoring the habits or characteristics of every patient and can provide an explanation of certain values in blood and biomarkers

5) CONCOMITANT DISEASES: AKU patients often suffer from other diseases, for instance arterial hypertension, hyperlipoproteinemia, hypothyroidism and asthma.

6) DRUGS TAKEN: especially anti-inflammatory drugs and painkillers.

7) HISTOPATHOLOGY: to assess amyloid presence in AKU specimens as cartilage, synovia, periumbelical fat and salivary glands.

8) HEALTH STATUS: a Physical and Mental Health score: self-reported measures of quality of life provide a wealth of information regarding the experience of individuals.

9) PLASMA ANALYSIS

10) URINE ANALYSIS

The data stored in the database are listed in the following table. Not every value is available in all patients: