



The Kidney transplantation application (KiTapp): A visualization and contextualization tool in a kidney graft patients' cohort

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The Kidney transplantation application (KiTapp): A visualization and contextualization tool in a kidney graft patients' cohort.

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Kidney Transplantation

- Treatment of choice for ESRD (End-stage renal disease)
- Follow-up reveals many complications
- Rejection, cancer...

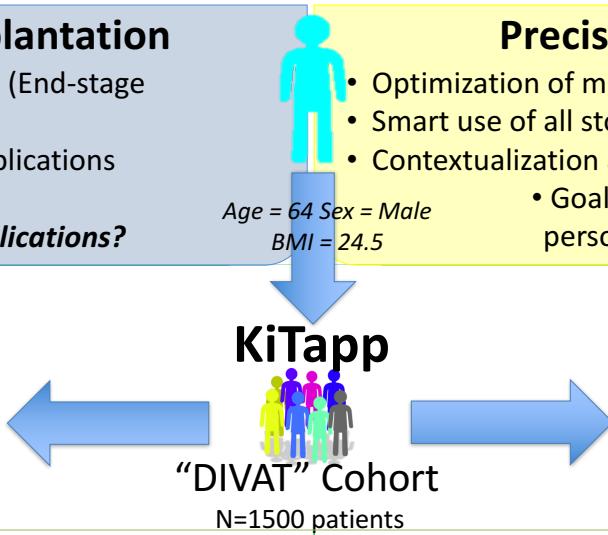
Can we anticipate complications?

Precision Medicine

- Optimization of medical care for a specific patient
- Smart use of all stored data
- Contextualization amongst his/her peers
- Goal of targeted therapies – personalized monitoring

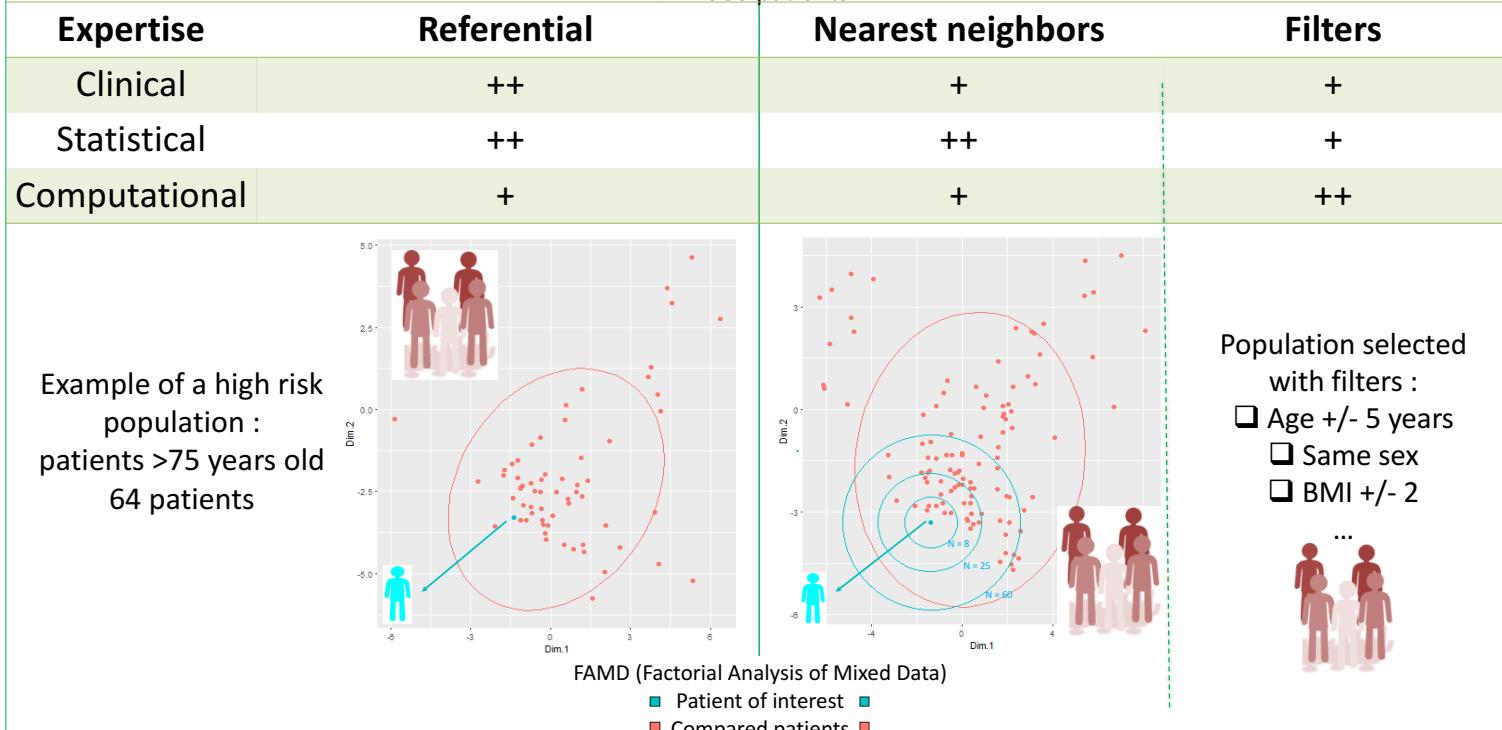
Referential contextualization :

Comparison with predefined groups



Populational contextualization :

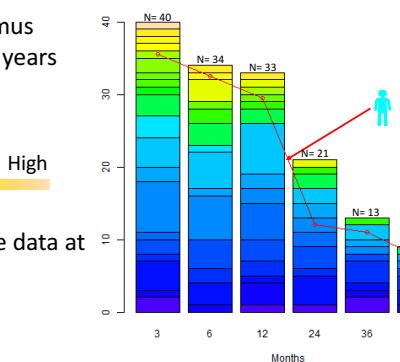
Selection by filters or nearest neighbors



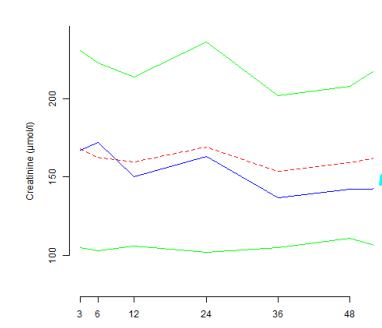
Distribution of Tacrolimus doses on a period of 4 years for the old population.

Our patient

Low



Not all individuals have data at each visit.



Creatinine overtime for the patient of interest compared to the selected population.

Clinical ambition: support clinical decision by facilitating access to big data in a actionable manner
Technological ambition: software and algorithms developed here could be applicable to various chronic medical conditions