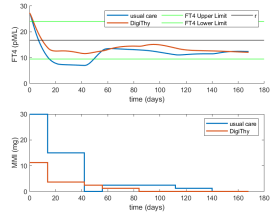


Digital Thyroid - DigiThy

Graves' disease is one of the most common causes of hyperthyroidism and has a lifetime risk of 3% for women and of 0.5% for men. Patients with Graves' disease can be treated with the antithyroid drug methimazole. In this project model-based methimazole dosing strategies are designed and investigated. The following currently ongoing activities can be reported:

- Modeling of a thyroid suffering from Graves' disease
- Design of model-based dosing strategies
- Discrete-time realization of dosing strategies in case of variable sampling times
- Design of a recommender system for physicians and endocrinologists

This project is in cooperation with the Division of Endocrinology and Diabetology, Department of Internal Medicine, Medical University of Graz.



Treatment using automated dosing (DigiThy) versus usual care treatment

