



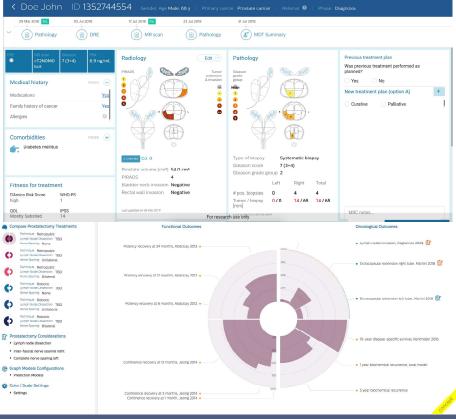


ISPM Prostate

A Clinical Decision Support System for Prostate Cancer Treatment

Clinical Problem PROSTATE Radicality Function

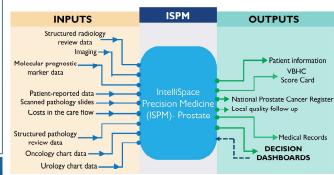
- The quality of care is multi-metric and comprises a trade-off between complete removal of the tumor and the loss of functions relying on tissue close to the prostate
- Tumor location is difficult to visualize
- Prostate cancer care is multi-modal urology, radiology, pathology, oncology, etc.
- Data are poorly structured with very little system integration
- Feedback to the care flow is limited
- The use of patient-reported data is underdeveloped



Major objective

Enable personalized treatment to improve the quality of care and increase productivity by: a) integrated visualization of multiparametric data, and b) Big Data-driven predictive modelling

Data flow automated by ISPM



Possible improvements using ISPM

Patient outcomes

- Better oncological outcome resection margins
- Better functional outcome urine continence and sexual function
- Patient satisfaction

Efficiency

Register data once, use often – system integration

Patient safety

- Reduce loss of information in the care flow
- Better and more efficient decisions at medical treatment conferences

Quality reporting/Value-based health care (VBHC)

- Real time quality data, including patient-reported data
- Stratification by risk group co-morbidity, family history, prognosis, etc.
- Real time, individual feedback to clinical staff
- Improved staff satisfaction

Prediction modelling

- Include known models in the software
- Develop new models (800+ patients expected by end of 2019)
- Visualize prediction models in intuitive ways







