Andre Dekker, Peter-Bram 't Hoen, Wessel Kraaij

Maastricht UMC+, Leids UMC, TNO









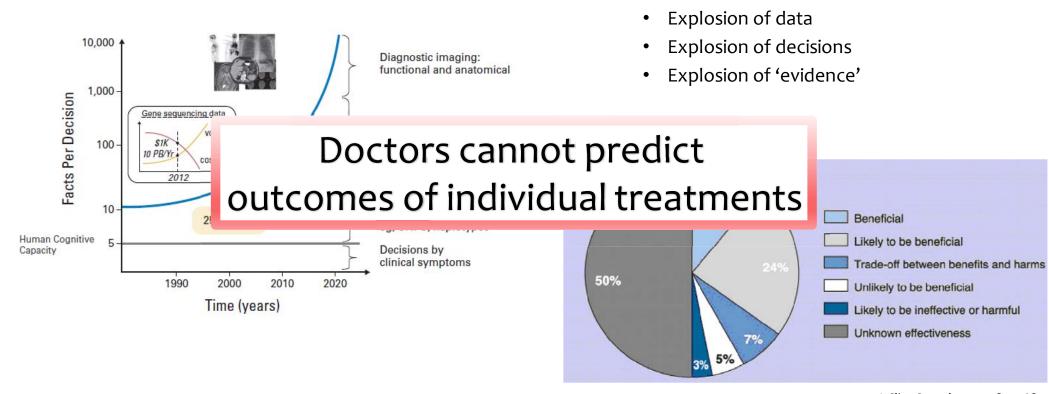






Personalized Medicine and Health The doctor is drowning

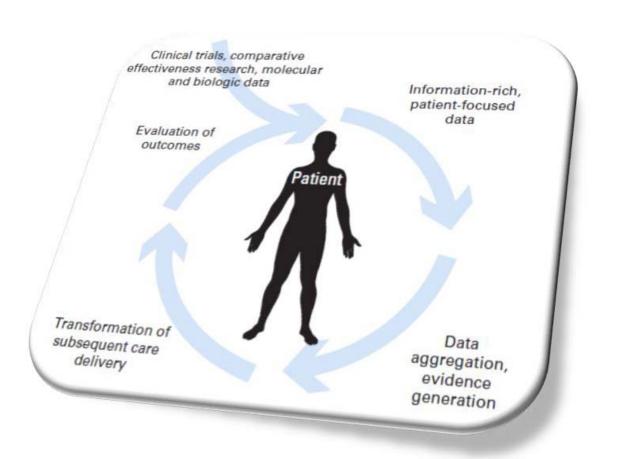




J Clin Oncol 2010;28:4268 JMI 2012 Friedman, Rigby BMJ Clinical Evidence

Personalized Medicine & Health = Data Driven Medicine & Health Rapid Learning Health Care





[..] the problem is not really technical [...]. Rather, the problems are ethical, political, and administrative.

Lancet Oncol 2011;12:933

A different approach



- If sharing is the problem: Don't share the data
- If you can't bring the data to the research
- You have to bring the research to the data

Open Claba - Findoble - More - More - More - Mecessible - Mecessible

Challenges

- The research application has to be distributed (trains & track)
- The data has to be understandable by an application (i.e. not a human) -> FAIR data stations

Opportunities

- People can control their own data (personal locker)
- People can start their own research (citizen train operators)

The Personal Health Train



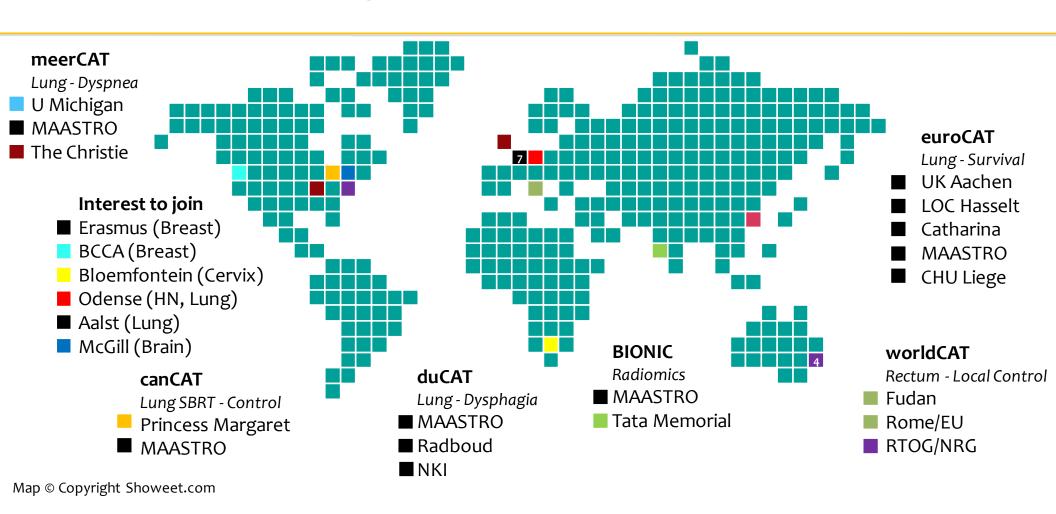




Personal Health Train

Reality!





Andre Dekker, Peter-Bram 't Hoen, Wessel Kraaij

Maastricht UMC+, Leids UMC, TNO

Scientific benefit clear, but what about personal benefit & control?







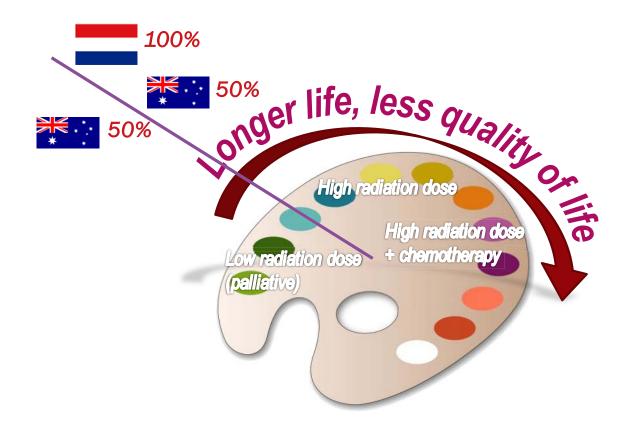






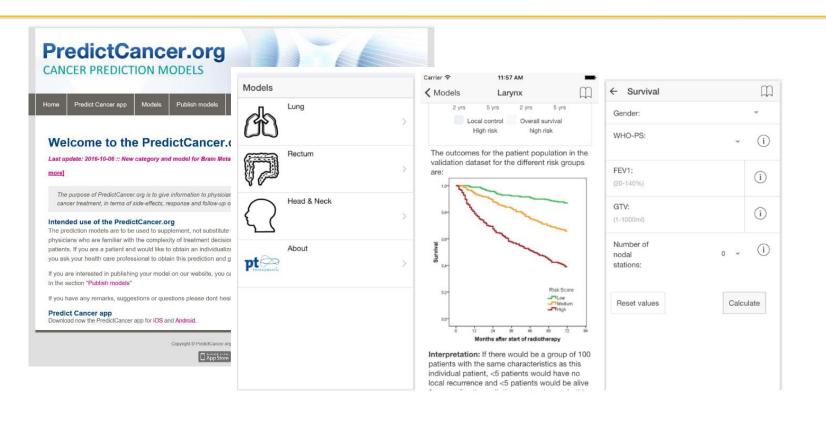
Personal benefit A lung cancer example





There is an app for that - Predict Cancer





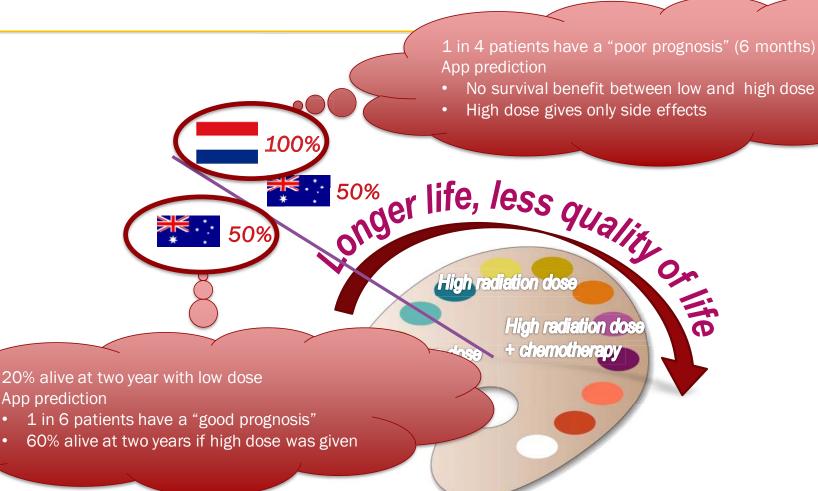
 ϵ

- Endometrium cancer
- Head & neck cancer
- Brain metastases
- + Lung cancer
- Prostate cancer
- * Rectum cancer

Manual entry now -> with PHT automated entry

Personal benefit?





Personal control? (PRANA)



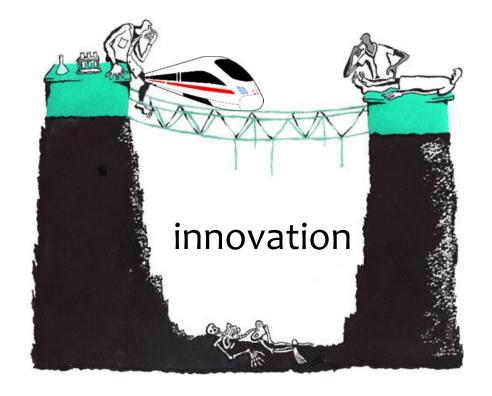
- Focus groups (patients and nonpatients)
- More sharing when...
 - <u>value</u> is recognised
 - there is **trust** in the receiver of the data
 - the sharing process is **easy to understand**
 - there is a <u>societal or personal goal</u>
 - it is <u>transparent</u> what will be done and by whom



Outlook



research care



- Health Care & Research
- Personal Lockers
- Privacy, Control & Consent
 - MedMij, RESPECT4U
 - Cooperatives
- FAIR
- PHT Limburg
- PHT workshop(s) & community
- www.personalhealthtrain.nl

Andre Dekker, Peter-Bram 't Hoen, Wessel Kraaij

Maastricht UMC+, Leids UMC, TNO











