

Patient participation, profit, and privacy protection

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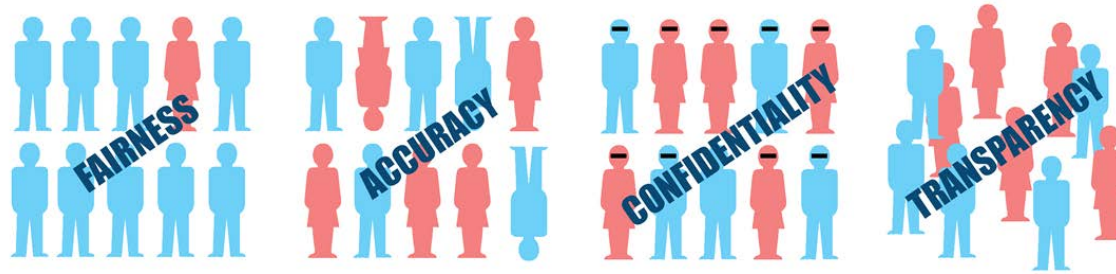


Desiderata

- Responsible data science
- Profitable data science
- Participatory data science



RESPONSIBLE DATA SCIENCE



Dutch collaboration of expert researchers from 11 knowledge institutions across the Netherlands

- Fairness: How to avoid unfair conclusions even if they are true?
- Accuracy: How to answer questions with a guaranteed level of accuracy?
- Confidentiality: How to answer questions without revealing secrets?
- Transparency: How to clarify answers such that they become indisputable?



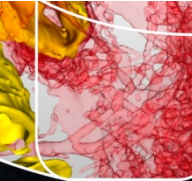
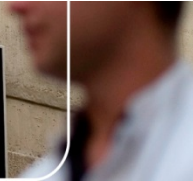
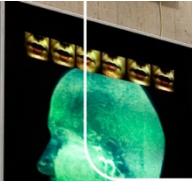
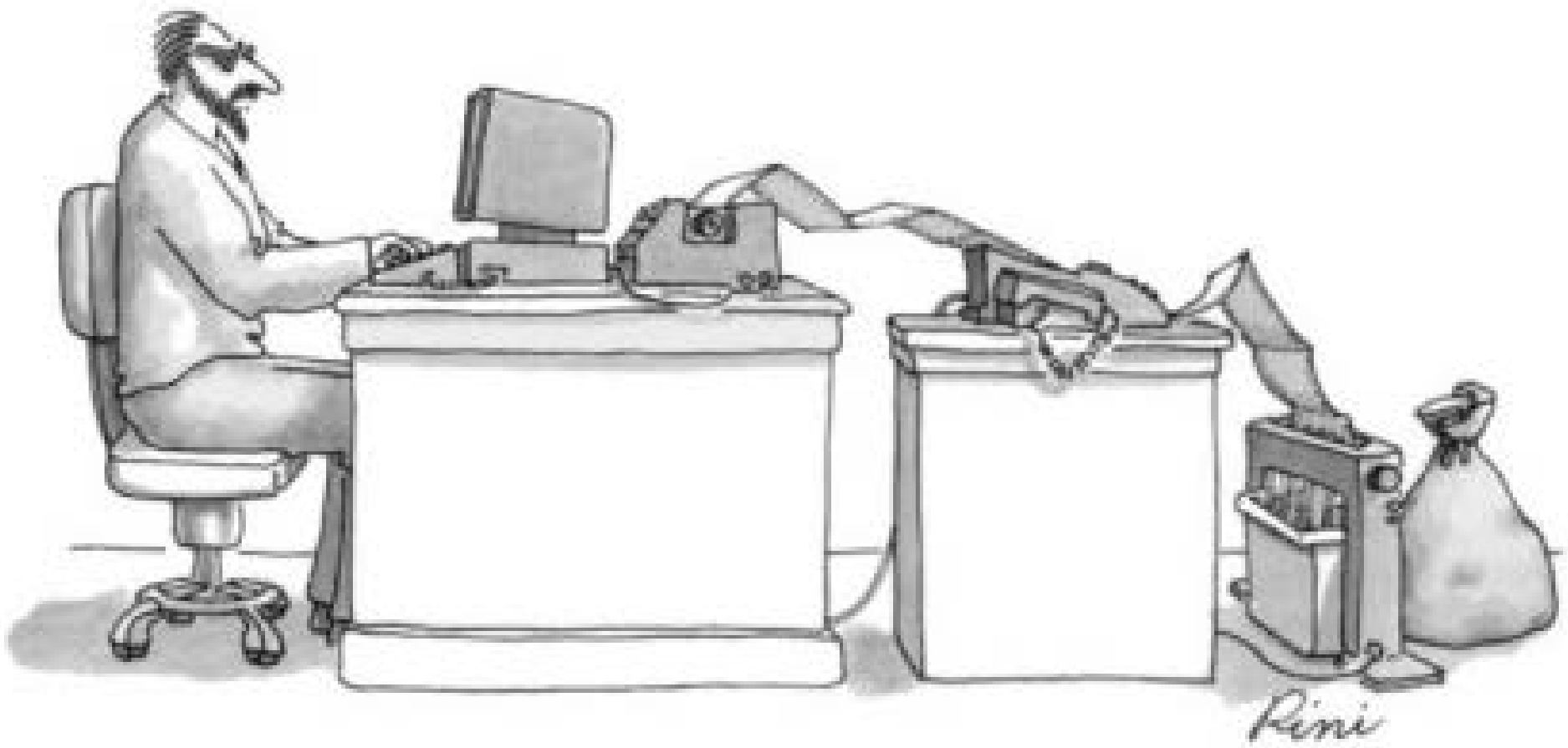
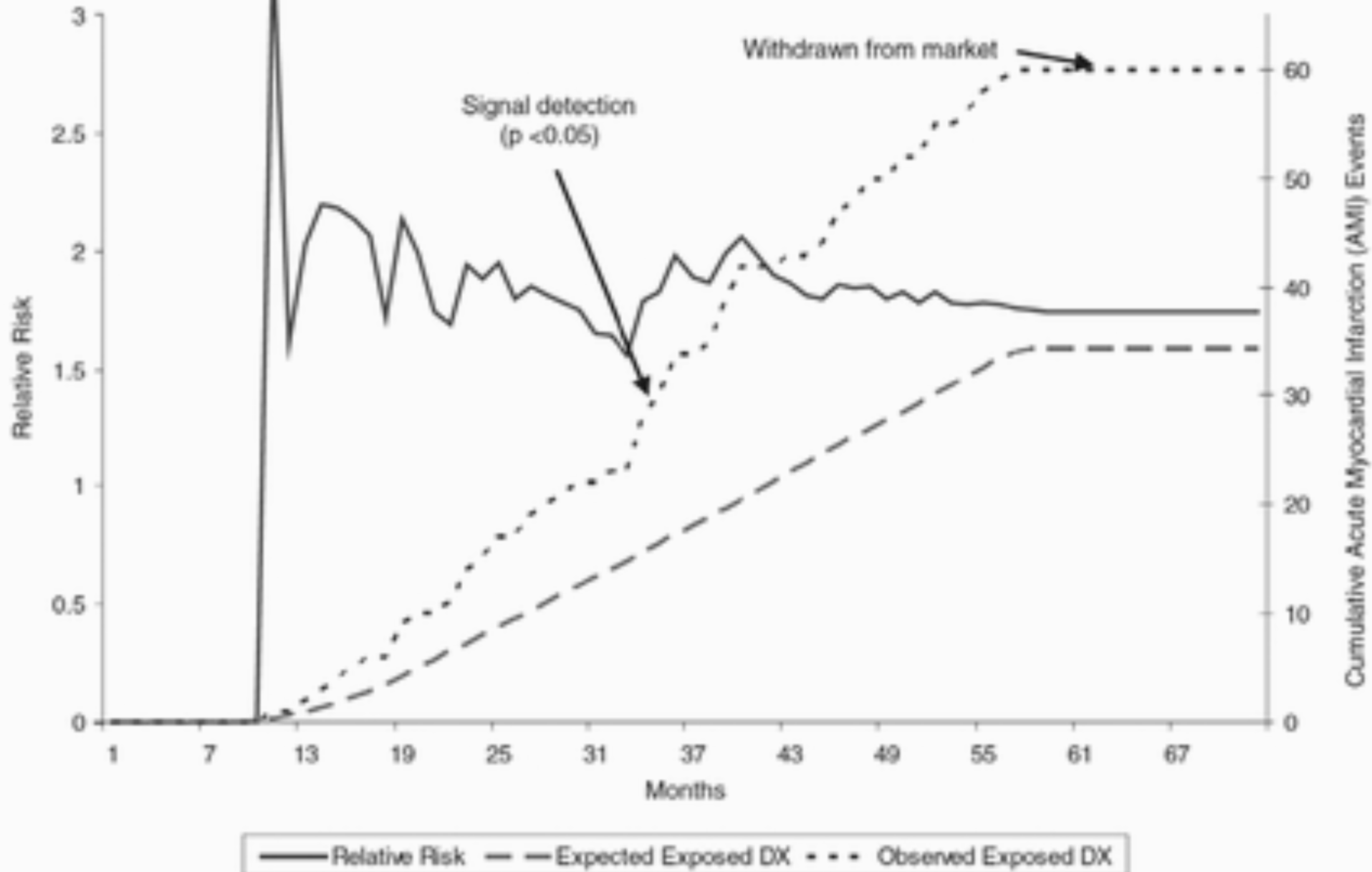


FIGURE 10.1: Detection of the signal of heart attack risk for Vioxx via the Kaiser Permanente health information



Participatory data science

“Analytics is deriving insights from data”

Ensure that data providers (patients, physicians) benefit from those insights

- Precision/personalized medicine
- Share insights with patients & physicians



Save the Date



Informatics for Health 2017

Joint meeting of MIE 2017 and The Farr Institute International Conference 2017

Venue : Manchester, UK

Date : 24th - 26th April 2017

Web : www.informaticsforhealth.org

Submit papers by October 31st !



#IforH2017