



DIGITAL HEALTH SUMMIT

BRUSSELS 6 DECEMBER 2017



Panel 3 – Unleashing Intelligence for IC and Population Health

The role of Artificial Intelligence in making the shift to Value Based Healthcare

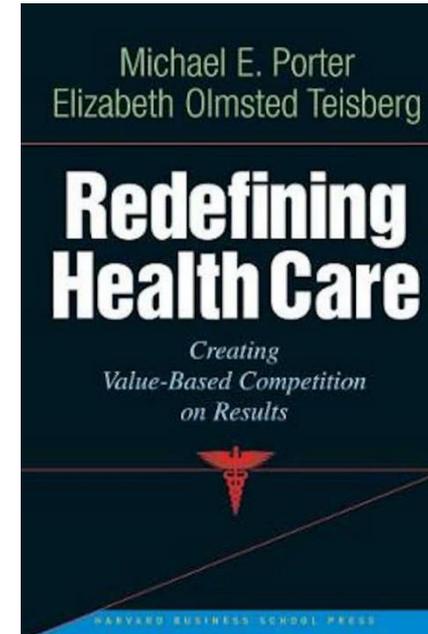
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Value Based Healthcare

- Michael E. Porter introduced value based Healthcare back in 2006





Moving from Volume Based Healthcare towards Value Based Healthcare

Today:

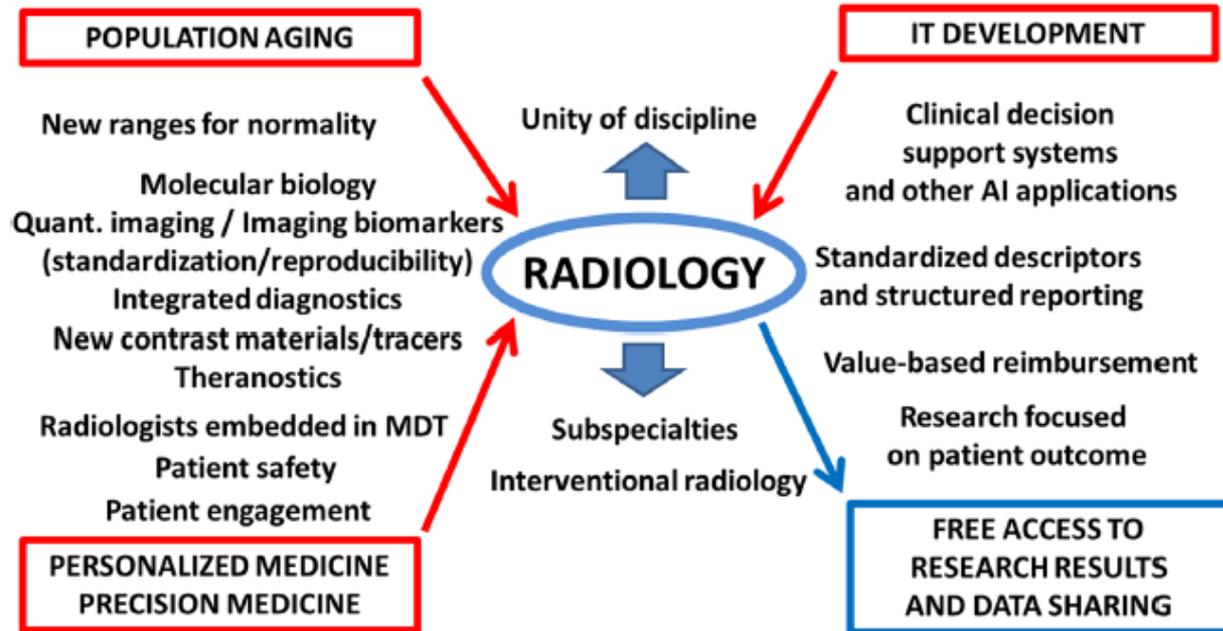
- Not adding value for the patient
- Using wrong parameters to measure outcomes



Focus on:

- Adding value for the patient
- Lowering costs not primary goal
- Competition based on outcomes
- Transparency for costs & outcomes
 - Efficiency of medication?
 - Efficiency of certain diagnostic tools?

Future trends in Radiology



Sardanelli European Radiology Experimental (2017) 1:1



Use of Artificial Intelligence in Radiology

- Artificial Intelligence can support the radiologist in the *shift* from a modality specific approach *towards organ and diseases focussed approach*
- It will provide *access to unique and authentic clinical data for clinical trails*, there is no way to influence data
- *Develop precision medicine*: collaboration between patients and medical specialists and medical domain experts
- *Clinical care pathways approach* example Genomics = > radiomics + radiogenomics
- *Access to data on a Regional, National or International level* to make algorithms more intelligent





Challenges

- *Artificial Intelligence (Machine Learning, Deep Learning,...)* is a getting a *buzz word*, everything is called *Artificial Intelligence* ?
- *Who controls the data?* Ones personal data is collected and stored in the cloud, the person who generated the data loses control of it
- *Integration of Radiology departments* within the clinical care pathways to deliver value based Healthcare
- We need *labelled, accessible & actionable data* on all levels of these clinical care pathways
- *Standardization and validation of data models* between industry partners but also cross hospitals, communities,...
- Some physicians will need to develop *clinical data scientists capabilities* to collect relevant data
- *We need Time*
 - To develop, adapt & validate these algorithms
 - All actors involved into this field need to adapt towards Security, privacy and accuracy



Conclusion

Artificial Intelligence can support Radiologists to deliver accurate and timely diagnose by:

- Automation
- Integration
- Quantification
- Support decision making of the patient specific treatment plan
- Communication with patients, referrals, specialists but also during Multi disciplinary clinical team meetings



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Thank you for
your attention!

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