



Outcomes that matter to patients

The importance of outcomes measurement in clinical practice

Stefan Larsson, MD, PhD

11 TH OF OCTOBER, 2019

An admired teacher and leader



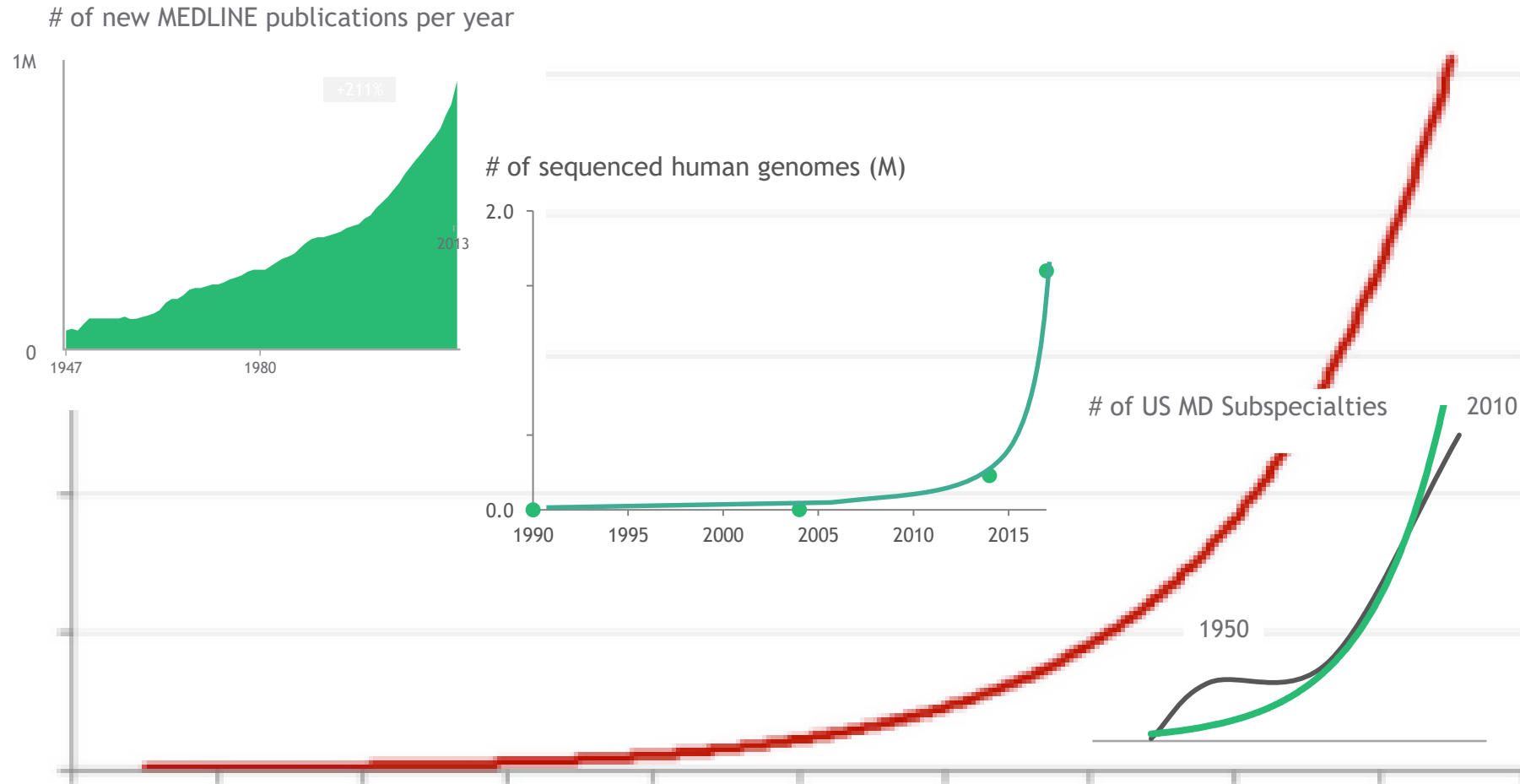
Prof Jan Lindsten

Clinical Genetics

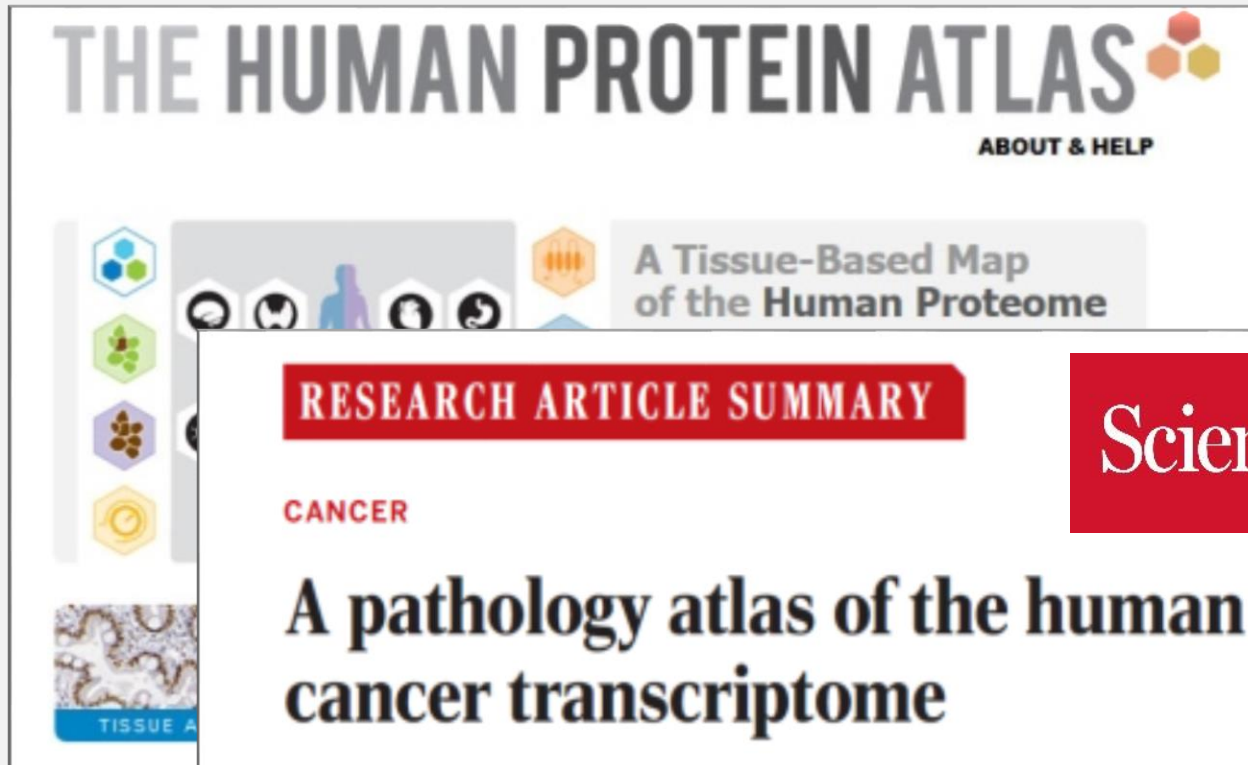
Evidence based medicine

Process improvements

Health care development is exponential

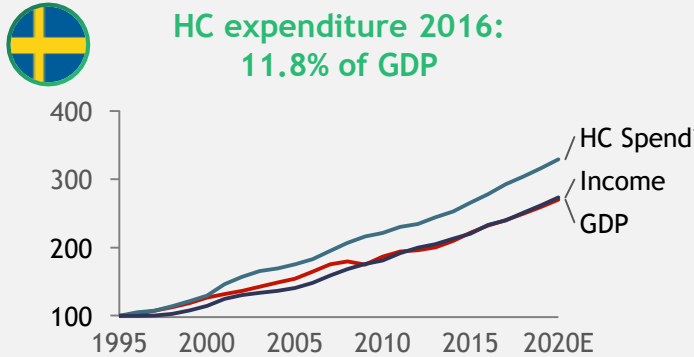
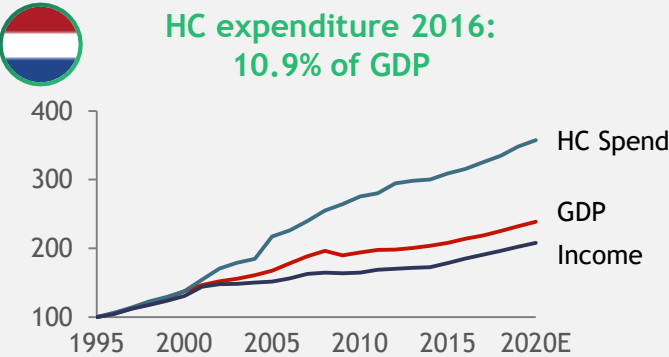
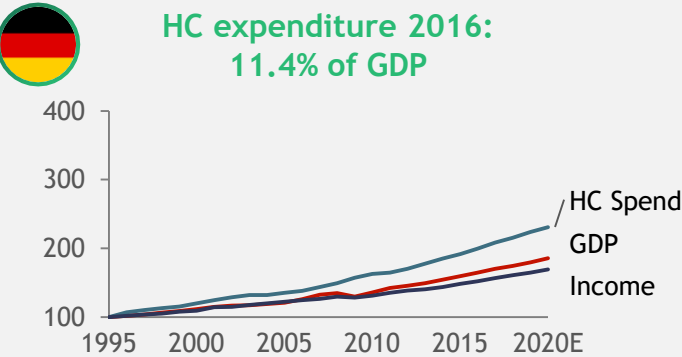
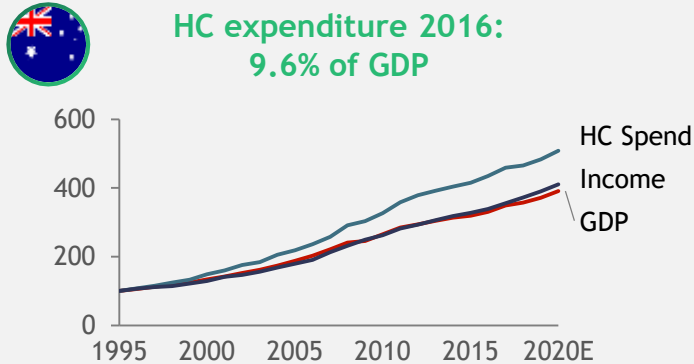
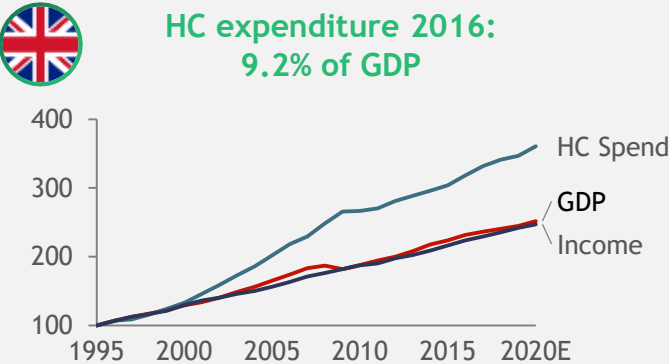
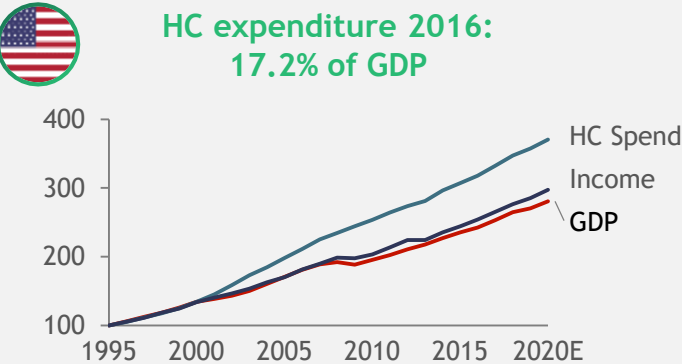


Science is exploding - eg. human proteomics



Mathias Uhlen,* Cheng Zhang, Sunjae Lee, Evelina Sjöstedt, Linn Fagerberg, Gholamreza Bidkhori, Rui Benfeitas, Muhammad Arif, Zhengtao Liu, Fredrik Edfors, Kemal Sanli, Kalle von Feilitzen, Per Oksvold, Emma Lundberg, Sophia Hober, Peter Nilsson, Johanna Mattsson, Jochen M. Schwenk, Hans Brunnström, Bengt Glimelius, Tobias Sjöblom, Per-Henrik Edqvist, Dijana Djureinovic, Patrick Mücke, Cecilia Lindskog, Adil Mardinoglu,† Fredrik Ponten†

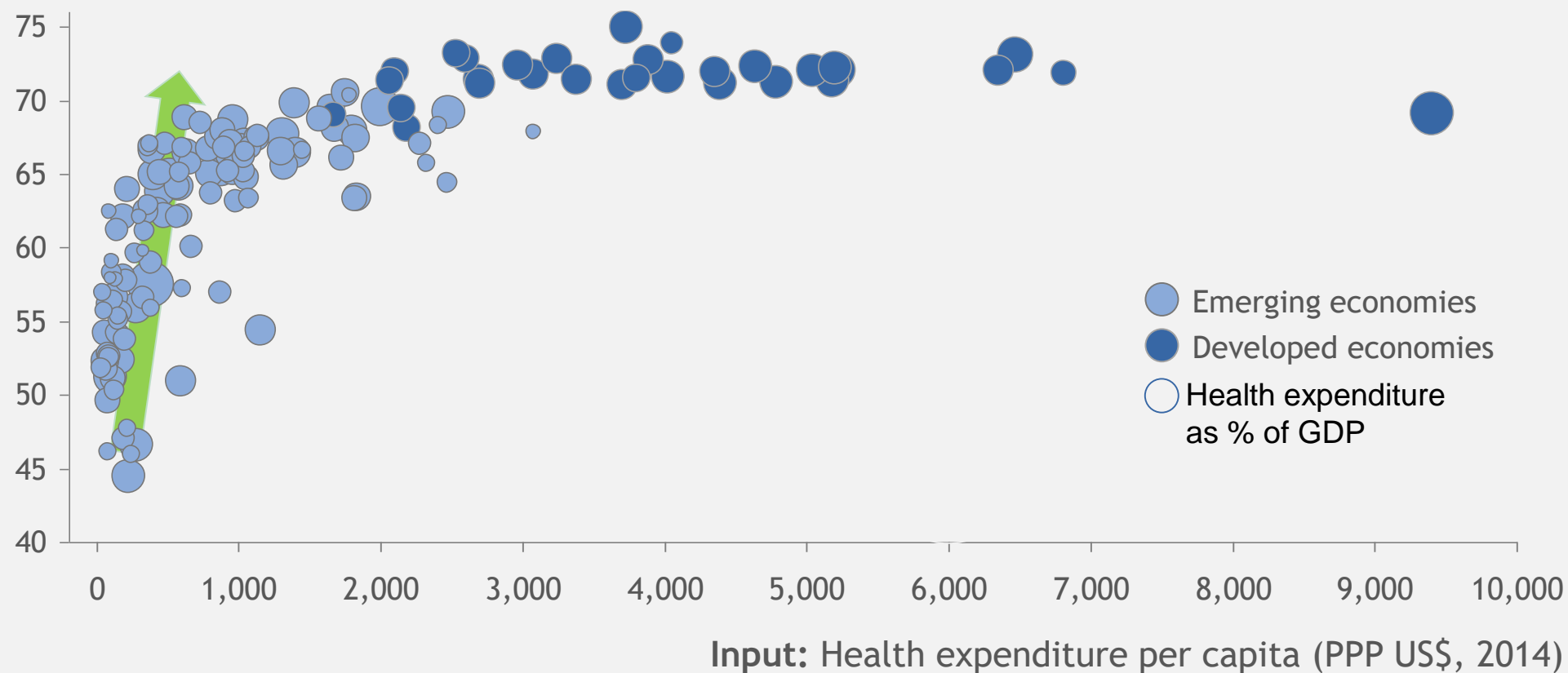
Health care costs rising globally at unsustainable rates



Notes: Index 100 at 1995, based on local currencies; Income = Personal Disposable Income
Source: WHO; EIU (May 2017); BCG analysis

Health care with diminishing returns

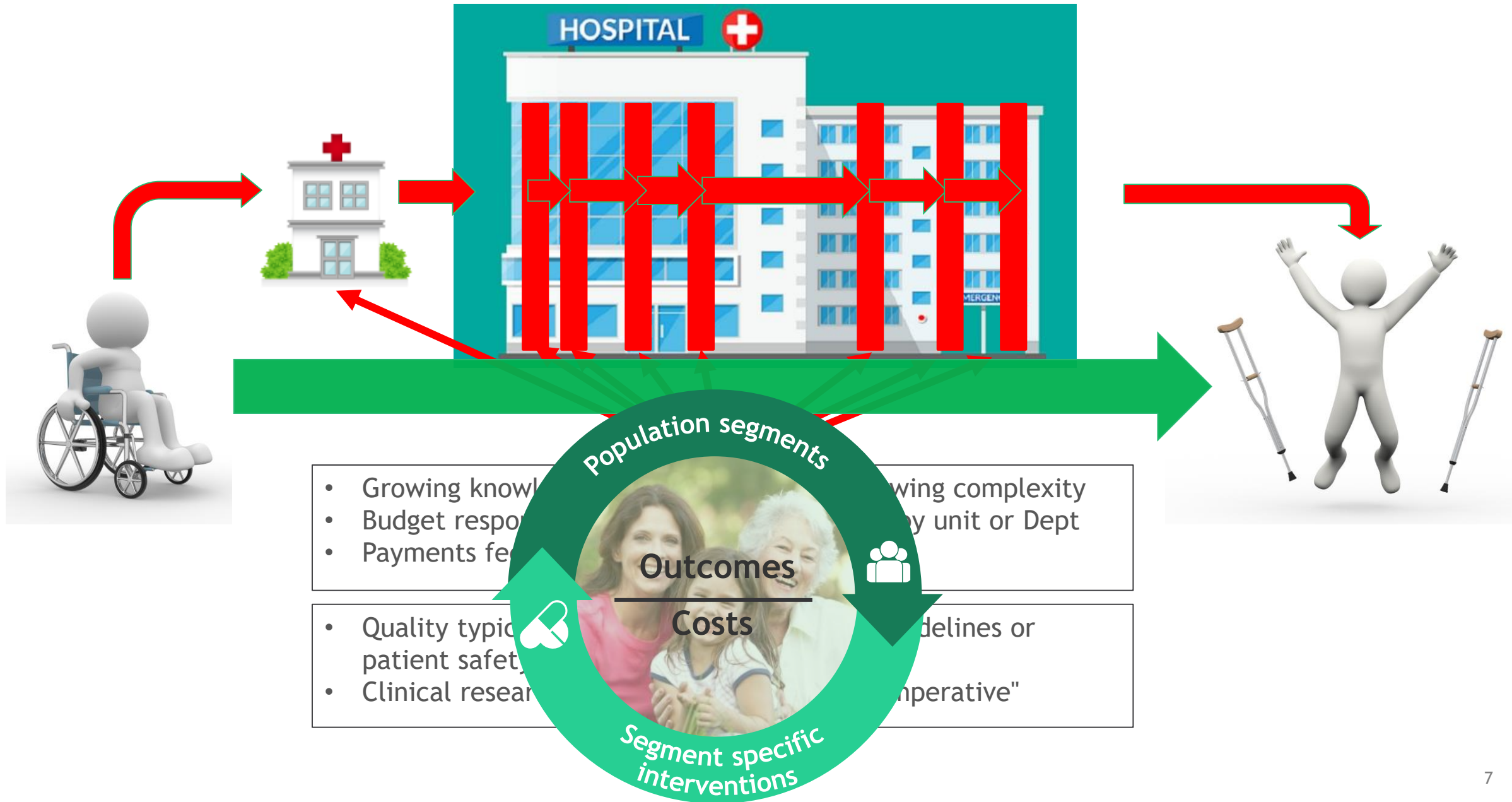
Outcome: Health-adjusted life expectancy¹ (years, 2015)



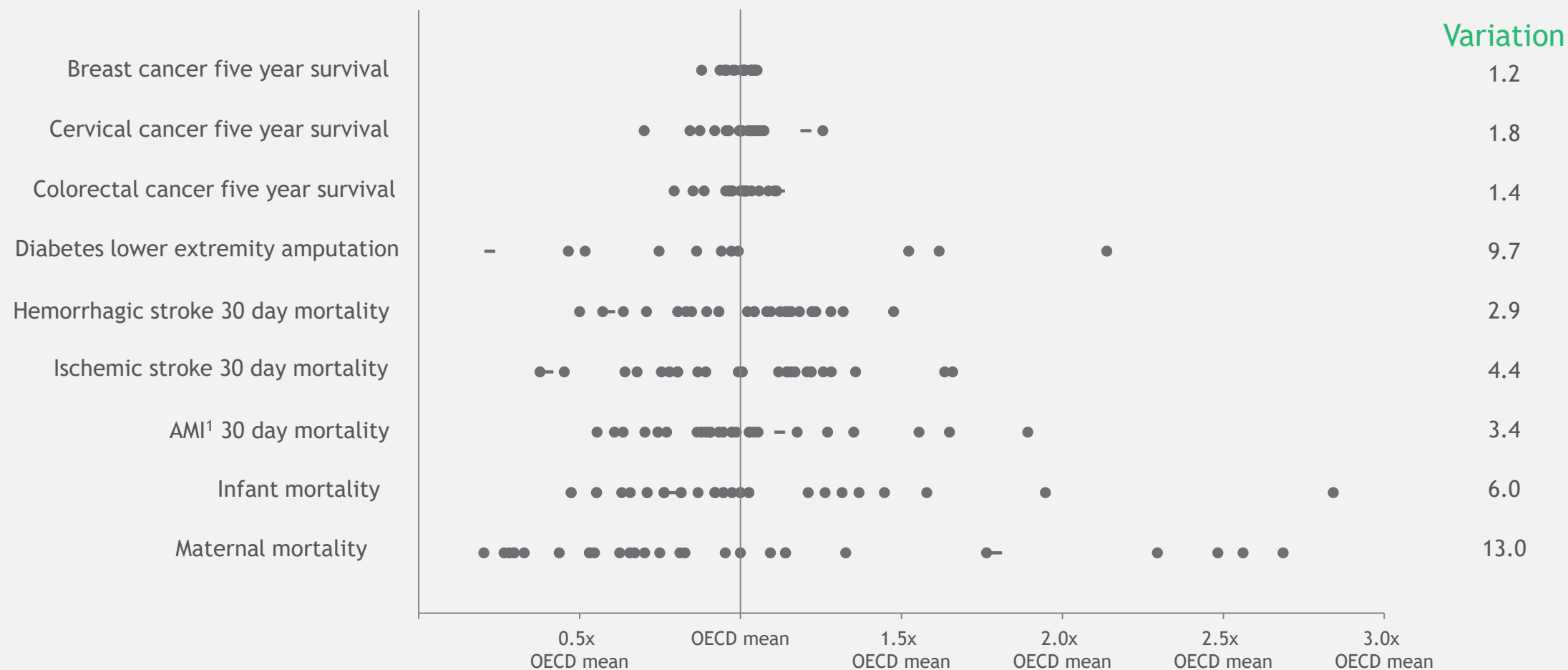
1. Health-adjusted life expectancy: Estimates the number of years in full health an individual is expected to live at birth by subtracting the years of ill health (weighted according to severity) from overall life expectancy. Sources: WHO, BCG

Healthcare systems with significant challenges





Massive variation in health outcomes across OECD



1. Acute Myocardial Infarction

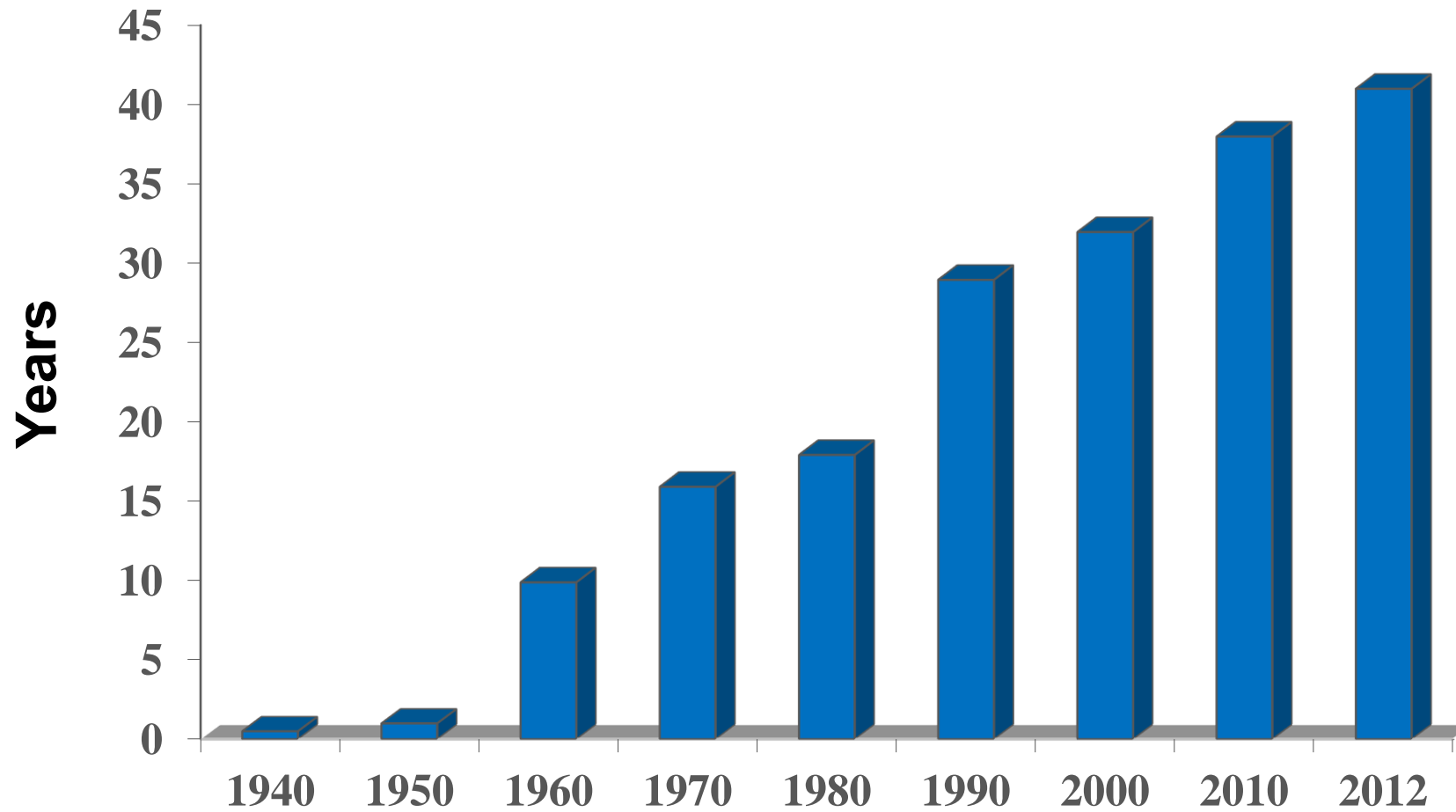
Note: Most recent data from 2011-13 used. Mexico and OECD candidate countries not included

Source: OECD Health May 2016, BCG analysis



"What gets measured, gets done" - if we don't measure outcomes, do we know what we are doing?

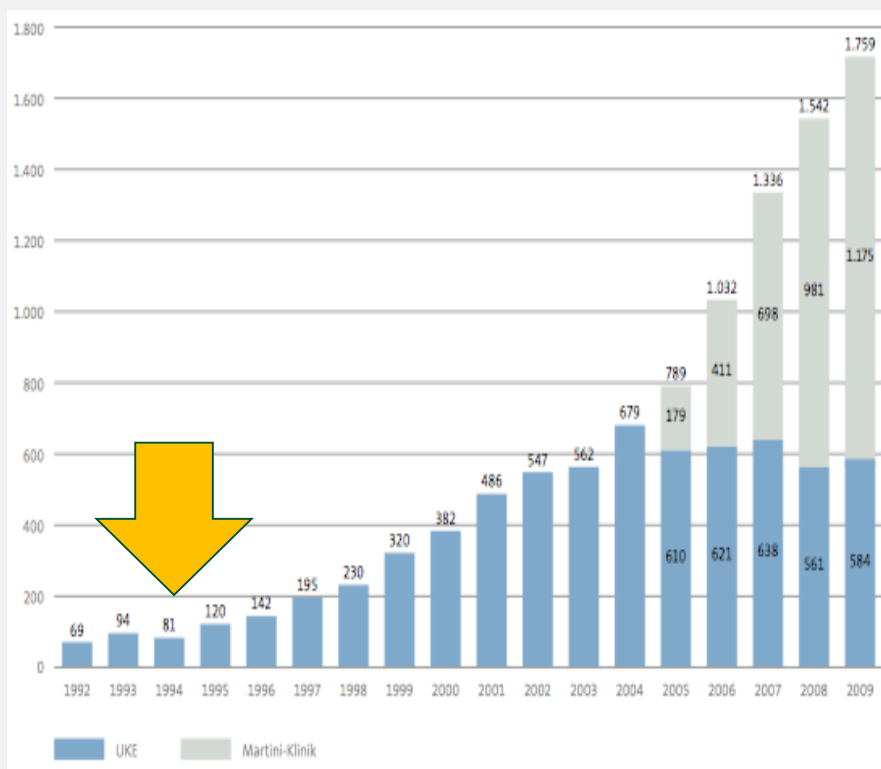
Median Predicted Survival Age



Source: CF Foundation Patient Registry

The Martini Klinik world's largest Prostate Ca hospital

**Martini Klinik does over 2k
prostatectomies /year - largest in EU**



Source: Hospital quality reports 2010

5 year disease-specific survival



Severe erectile dysfunction

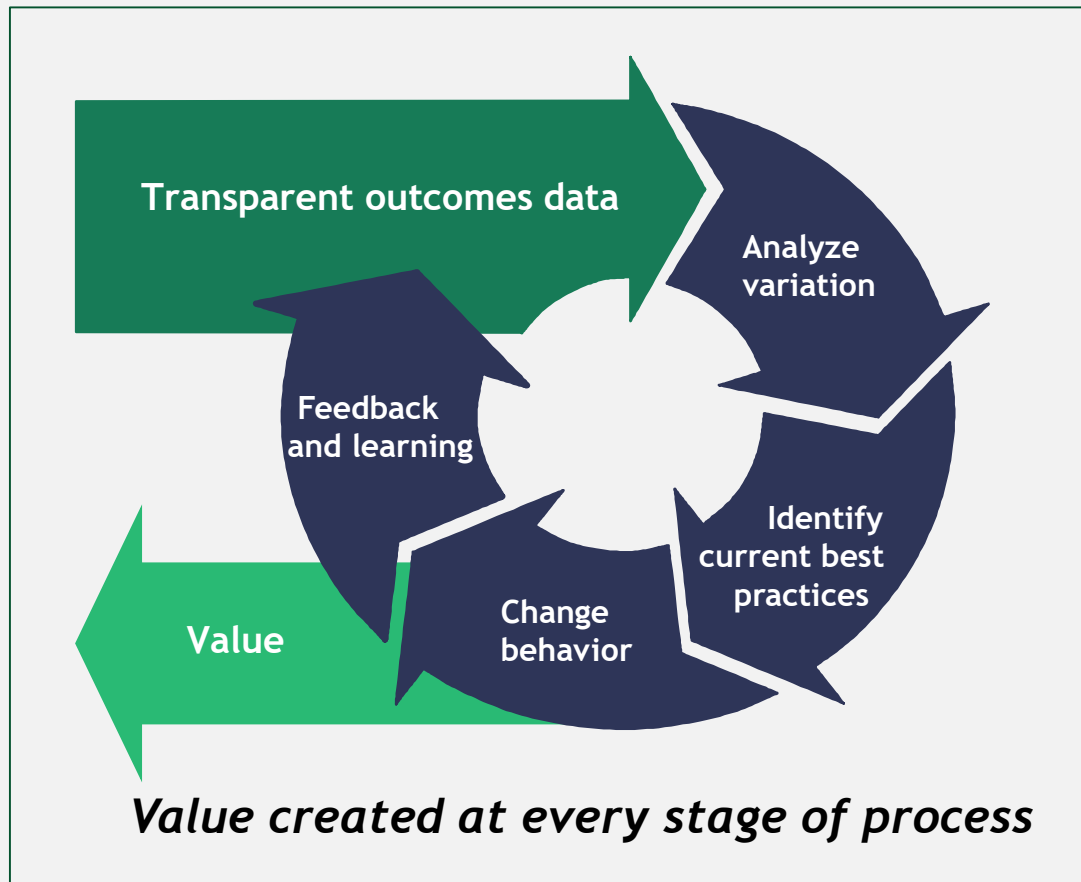


Incontinence



Outcomes measurement and transparency the basis

Value cycle: starts with reliable outcomes data...



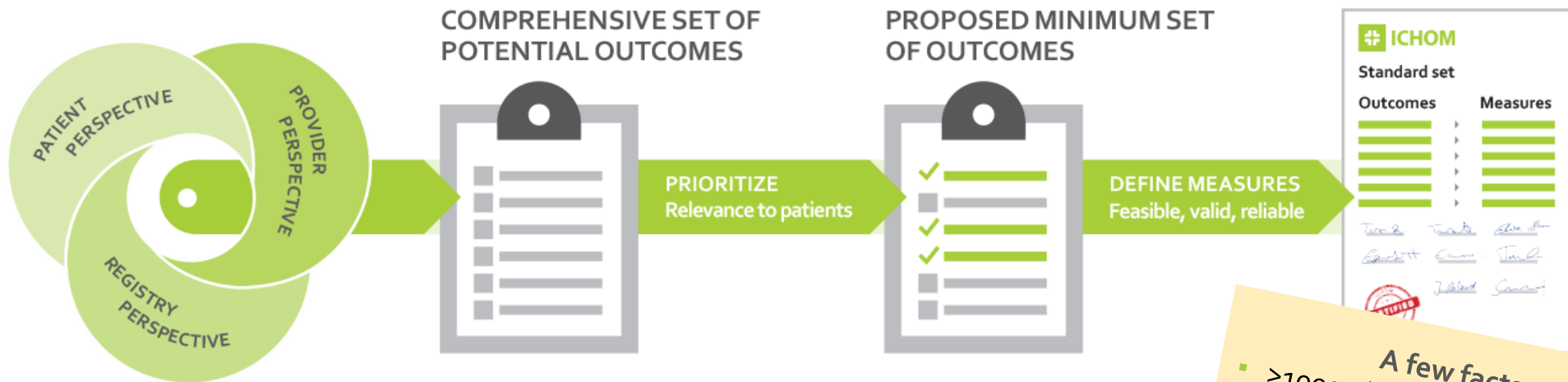
...to deliver superior patient value



- ✓ Improved outcomes
- ✓ Reduced variation
- ✓ Reduced medical cost
- ✓ Continuous improvement

Improved health care value

ICHOM organizes international working groups to define standard outcomes



ICHOM is an independent not-for-profit. It facilitates a process with international physician and registry leaders and patient representatives to develop a global Standard Set of outcomes that really matter to patients

- A few facts**
- >1000 physicians, patient representatives and outcomes experts involved so far
 - All participants volunteer their time, 2-3 hours per month
 - 8-10 months to develop a Standard Set

Currently 28 Open access Standard Sets published

Published sets cover >50% of global disease burden



In progress

Primary/preventative care

- Adult overall health
- Paediatric overall health
- Oral health

Mental health

- Personality disorders
- Depression and anxiety for children and young people
- Psychotic disorders
- Disorders related to substance use and addiction
- Personality disorders

Musculoskeletal

- Hand and wrist conditions

Many leading institutions around the world are using the ICHOM standards



Germans represented in ICHOM working groups



Andreas Bollmann



Andreas Schmitt



Hartwig Huland



Corinna Langelotz



Markus Ketteler



Axel Dignass



Markus Graefen



Sandra Nolte



Richard Dodel



Claudia Bausewein



Thomas Wiegel



Alexander Obbarius



Thomas Steuber



Michael Froehner



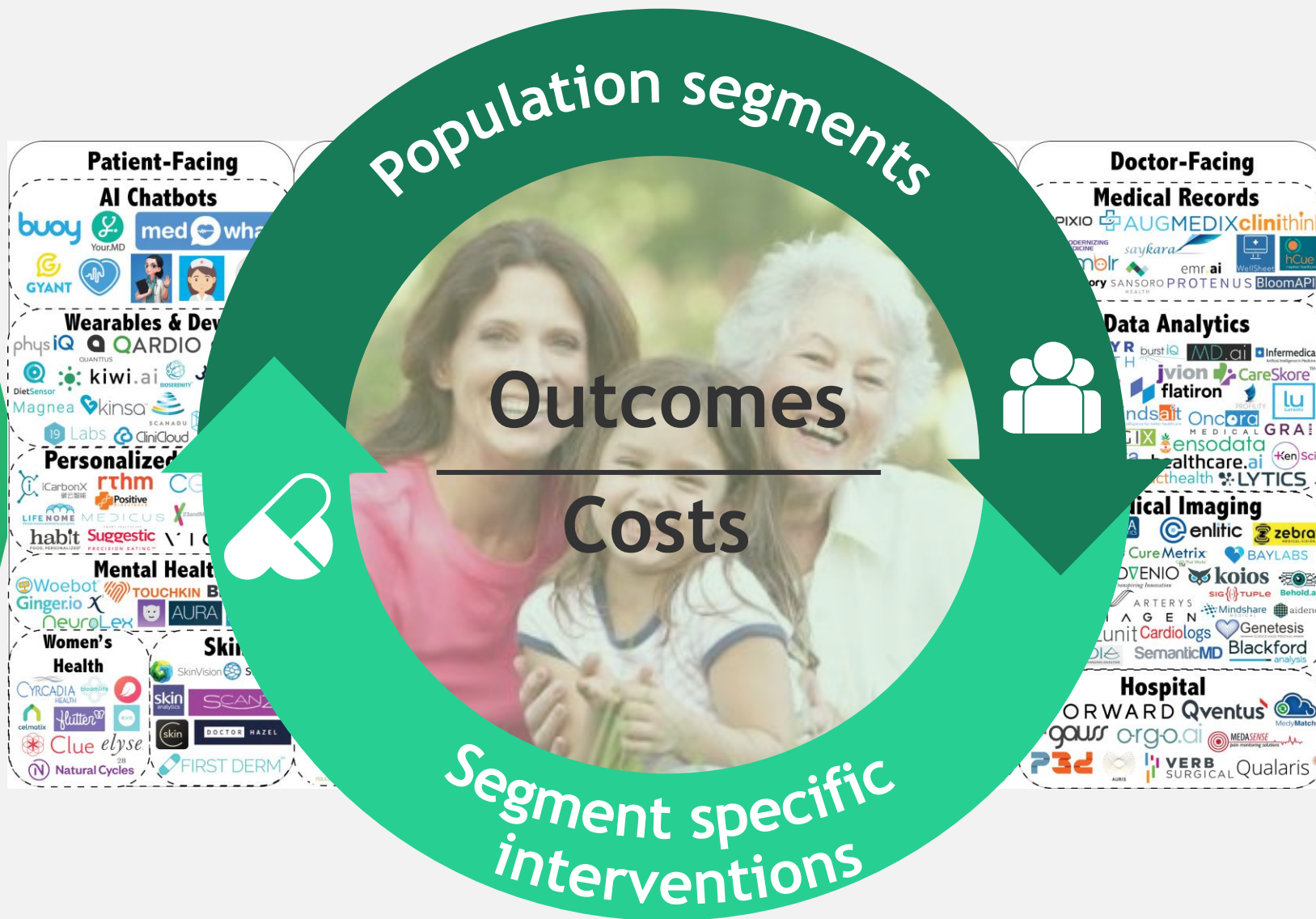
Günter Feick



Matthias Rose

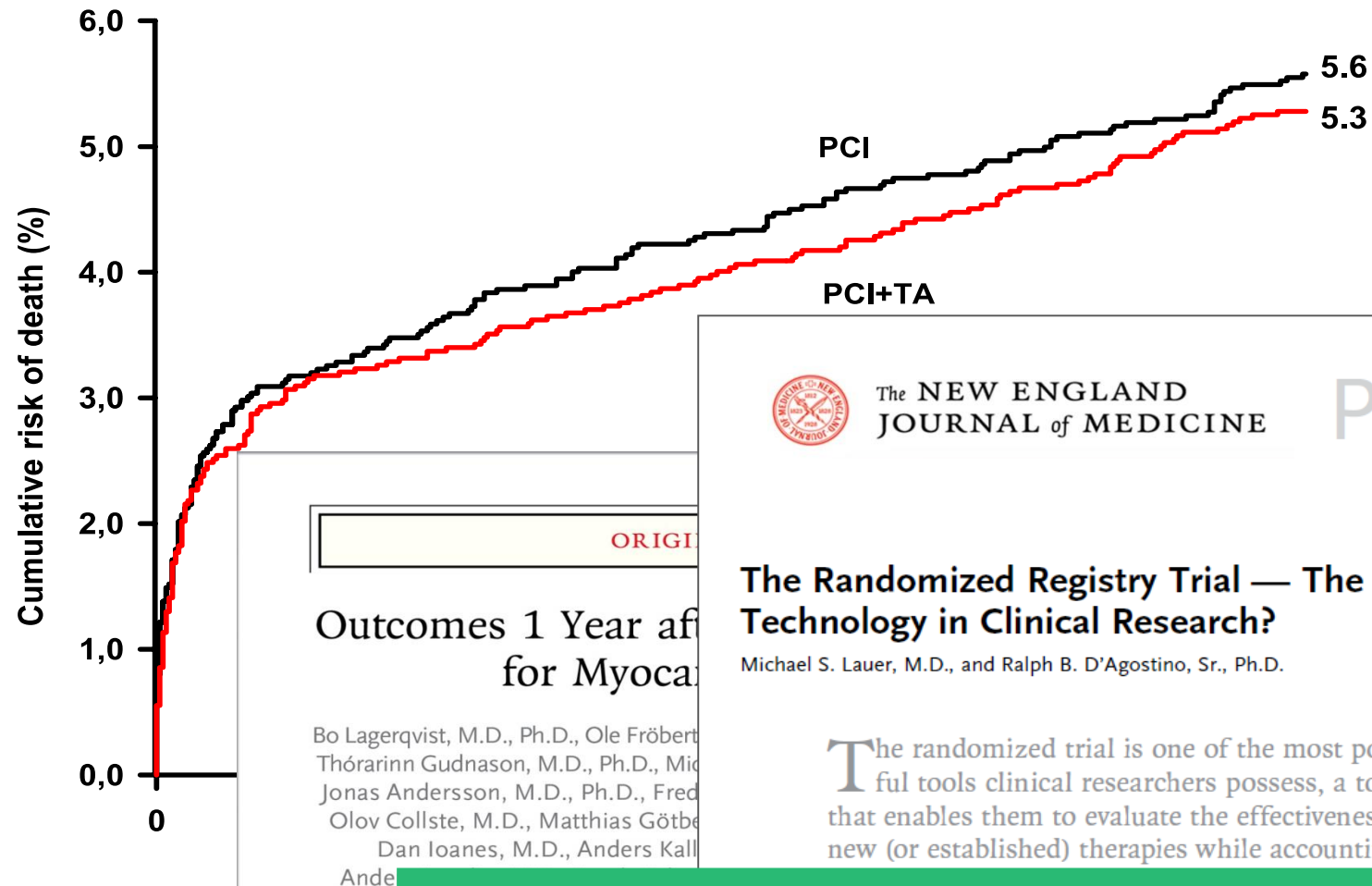


Precision medicine will require the application of AI and deep learning



Registry based randomized clinical trials

TASTE



Research integrated into daily clinical practice

