

International Consortium for Health Outcomes Measurement

Danish Regions

5th February 2018

Ernest Codman – circa 1915



"...neither the hospital trustees, the physician, nor surgeon, nor administrator consider it their business to make sure that the result to the patient is good"

> -Ernest Codman (1914, Boston)

Source: Donabedian. Milbank Quarterly. 1989.

Agenda

Background

Standard Set Development

Implementation and Benchmarking

Further developments

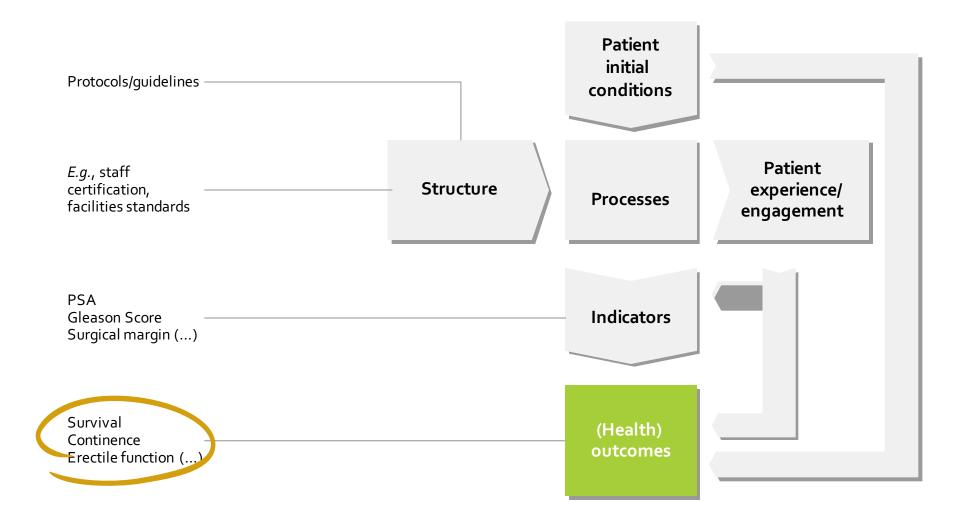
Variation in health outcomes is a worldwide problem

- 2x variation in 30-day mortality rate from heart attack in US hospitals
- **4X** variation in bypass surgery mortality in the UK hospitals
- **5X** Variation of major obstetrical complications among US hospitals
- **9X** variation in complication rates from radical prostatectomies in the Dutch hospitals
- **18x** variation in reoperation rates after hip surgery in German hospitals
- 20X variation in mortality after colon cancer surgery in Swedish hospitals
- **36x** variation in capsule complications after cataract surgery in Swedish hospitals

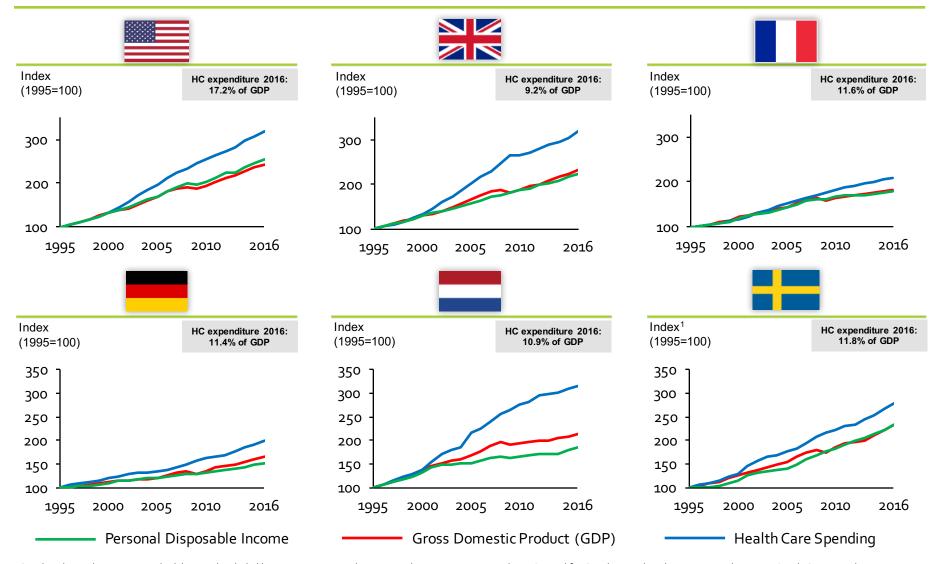


Outcomes are the "real-world" results that matter to patients

Example: Prostate cancer

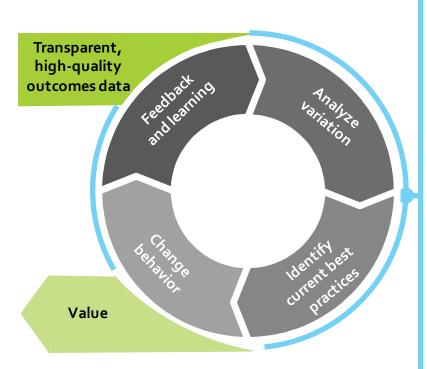


Expenditure on health care is growing at an unsustainable rate



^{1.} Sweden changed reporting methodology and included long-term care spending in 2011, but not prior to 2011; thus HC spend for Sweden is indexed 1995-2010 and 2011-2016 with GDP growth 2010-11. Notes: All indexes based on local currencies; Income = Personal Disposable Income; Source: WHO, EIU (May 2017)

Outcome measurement drives value improvements for all stakeholders



Key stakeholders



 Patients will choose their provider based on expected outcomes and their share of the cost



 Clinicians will improve quality of care by comparing performance and learning from each other



 Hospitals will differentiate into areas where they deliver superior outcomes at competitive prices



 Payers will negotiate contracts based on results, not volume, and encourage innovation to achieve those results



 Life science will market their products on value, showing improved outcomes relative to costs

ICHOM was formed as a non-profit catalyst to drive the industry towards value-based health care



Our mission:

 Unlock the potential of value-based health care by defining global Standard Sets of outcome measures that really matter to patients and by driving adoption and reporting of these measures worldwide

ICHOM plays several roles along the journey that will enable value-based health care: our strategic agenda

ICHOM <u>defines</u>
<u>internationally recognized</u>
<u>Standard Sets</u> of outcomes
and related case-mix factors

ICHOM will provide riskadjusted international benchmarks on outcomes by medical condition ICHOM will become a methodological partner with media to publish ratings based on ICHOM outcomes



Define Standards



Benchmark on outcomes¹

Establish outcomes transparency



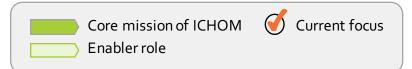
Measure outcomes

Collaborate to improve value¹

Develop value-based payment models

ICHOM facilitates adoption and implementation by sharing knowledge and supporting proof-of-concept ICHOM will <u>enable</u>
<u>cooperation</u> to improve value
by establishing value
collaboratives

ICHOM will <u>engage payers</u> and <u>governments</u> to realign financial incentives and promote transparency



^{1.} We are exploring the inclusion of resources data in benchmarks but the methodology is to be determined

Agenda

Background

Standard Set Development

Implementation and Benchmarking

Further developments

We need standardisation so that we can meaningfully and reliably compare the *same* outcomes

Comparing apples with oranges is a lot harder than....

...comparing apples with apples







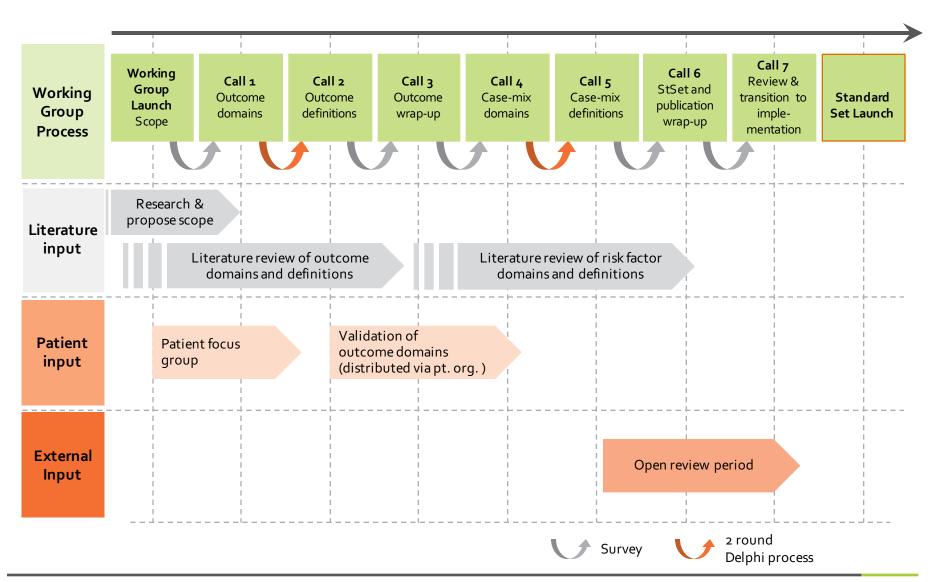


Measuring different outcomes in different ways makes it impossible to meaningfully compare

Framing principles for ICHOM Working Groups

- Outcomes are defined around the medical condition, not the specialty or the procedure
- The Standard Set is a "minimum set" focused on the outcomes that matter most to patients
- Patients are directly involved in defining the Standard Set
- Patient-reported outcomes are included in every Standard Set to capture symptom burden, functional status and health-related quality of life
- A "minimum set" of initial conditions/risk factors is included to facilitate meaningful comparison
- Time points and sources of data collection are clearly defined to ensure comparability of results

Standard Set is defined through series of teleconference calls, supported by research and patient input



The Overall Adult Health Standard Set challenges conventional thinking, bringing a new paradigm to outcomes measurement

Current

(Individual Conditions)

Traditionally, ICHOM's work has focused on outcomes of care for specific medical conditions...







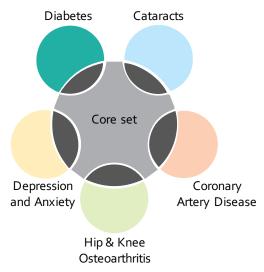




Future (Population Segments)

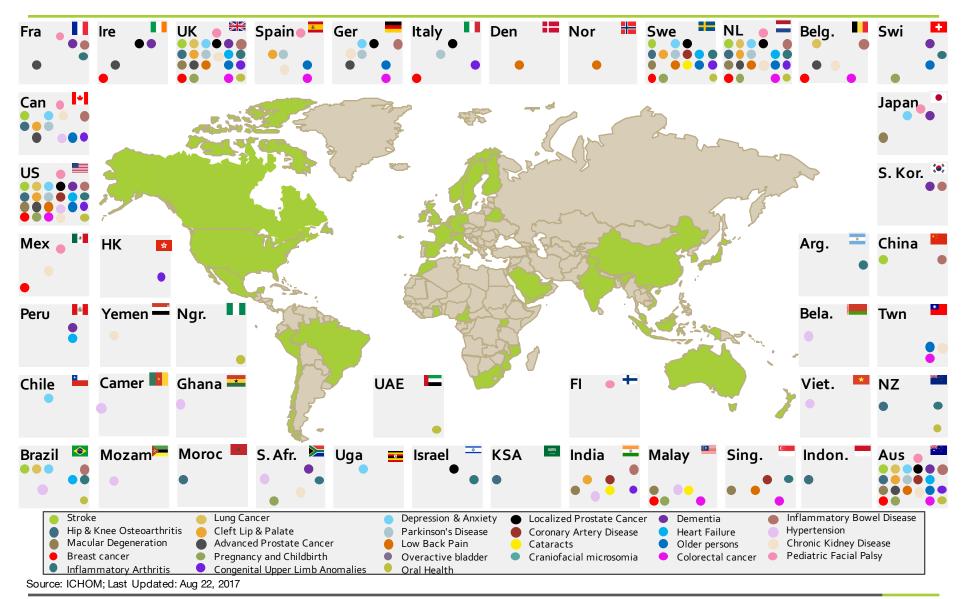
...however, there are compelling reasons for considering outcomes across population segments

The Overall Adult Health Standard Set will provide the core foundation for modular add-ons of more condition-specific Sets.



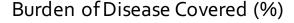
Pediatric Overall Health Sets also in development

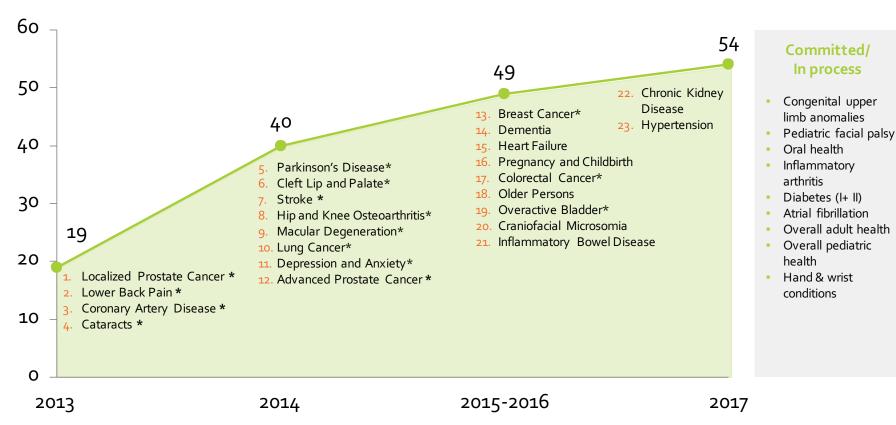
ICHOM Working Group members originate from 44 countries



ICHOM Standard Sets now cover >50% of global disease burden

23 ICHOM Standard Sets to-date





¹⁵ Standard Sets published to date in peer-reviewed journals

Percentage of global disease burden coverage is based on Global Burden of Disease Study 2016. Global Burden of Disease Study 2016 (GBD 2016) Results. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2016.

Agenda

Background

Standard Set Development

Implementation and Benchmarking

Further developments

Successful implementation projects can broadly be split into four phases with continuous change management throughout

Key Tasks

Assess and define scope for project and recruit local Project Manager Establish project team and governance structure **Preparation** Plan for launch with key stakeholders to achieve clinical buy-in Develop an implementation plan to guide the project Determine and process map pilot implementation site Assess IT and informatics infrastructure within pilot site Perform a gap analysis of what data is collected versus what isn't Diagnostic Secure additional IT/Information platforms to address data gaps Change Secure PROM licenses for Standard Set as required Management Deploy IT solution **Roll Out** Pilot data collection with part of dataset Assess Pilot period Refine Workflow and IT systems using PDSA cycles Scale up to implement full dataset for all patients within scope Measurement Collect data on every patient, ensure data completeness and validity Troubleshoot full dataset issues & quality assure data through audit Begin to analyze full dataset and report to clinicians and patients

<u>Erasmus MC</u> has implemented the ICHOM Standard Set for Cleft Lip and Palate as part of their broader VBHC strategy

Background

- Erasmus MC has a long-term VBHC strategy, which began in 2013
- A key part of this strategy is global benchmarking
- As one of their leading pilots, Erasmus MC has implemented the ICHOM Standard Set for CLP

Summary

- Dedicated VBHC project team to support implementation
- Piloting in single 2-weekly outpatient clinic
- Developed in-house, user-friendly data collection platform
- PROMs data collected remotely via web portal & in waiting room
- Changes to patient flow and appointment schedules to fit data collection and streamline care

Early results

- 90% compliance for PROMs
- 100% compliance for clinician-reported outcomes and administrative metrics

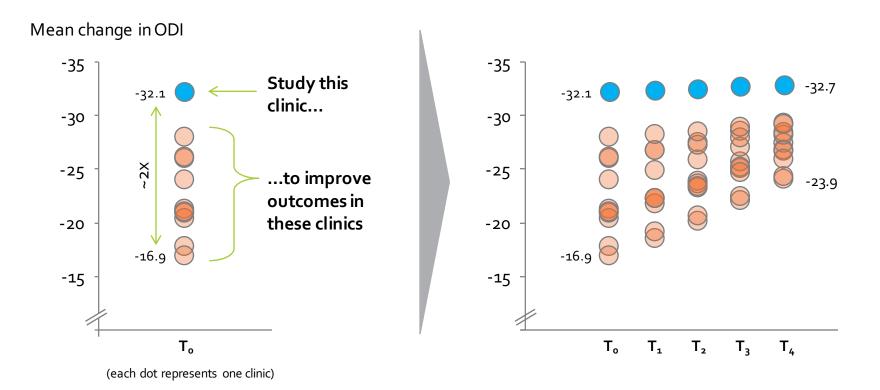
Next steps

- Scale to all CLP patients in other clinics at Erasmus MC
- Shift care pathways to match the ICHOM Standard Set for all CLP patients
- Openly share electronic data collection platform with other global cleft care providers to facilitate international benchmarking

Global comparisons will set the stage for more rapid learning and improvement

Outliers exist in all areas of medicine

Over time, we expect variation to narrow and performance to improve globally



Note: Adjusted for age, sex, race, body mass index, diagnosis, education, any neurological deficit, stomach problem, join problem, other comorbidities, baseline treatment preference, and baseline scores; **Source:** Desai et al, Variation in Outcomes Across Centers After Surgery for Lumbar Stenosis and Degenerative Spondylolisthesis in the Spine Patient Outcomes Research Trial, Spine 2013.

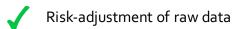
Global Benchmarking

First global outcome benchmarking projects in hip/knee/osteoarthritis and cataracts

Project set up



	Hip/Knee/ Osteoarthritis	Cataracts
Countries	5	8
Reporting Sites	25	53
Patients (Since 2016)	6k	6ok



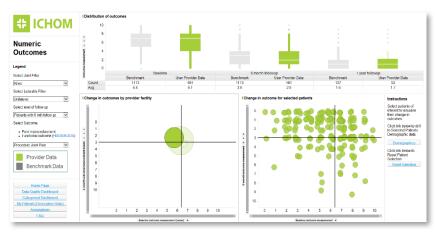
Benchmark on key indicators—focusing on patient-reported outcomes

Individual reporting to participating organizations

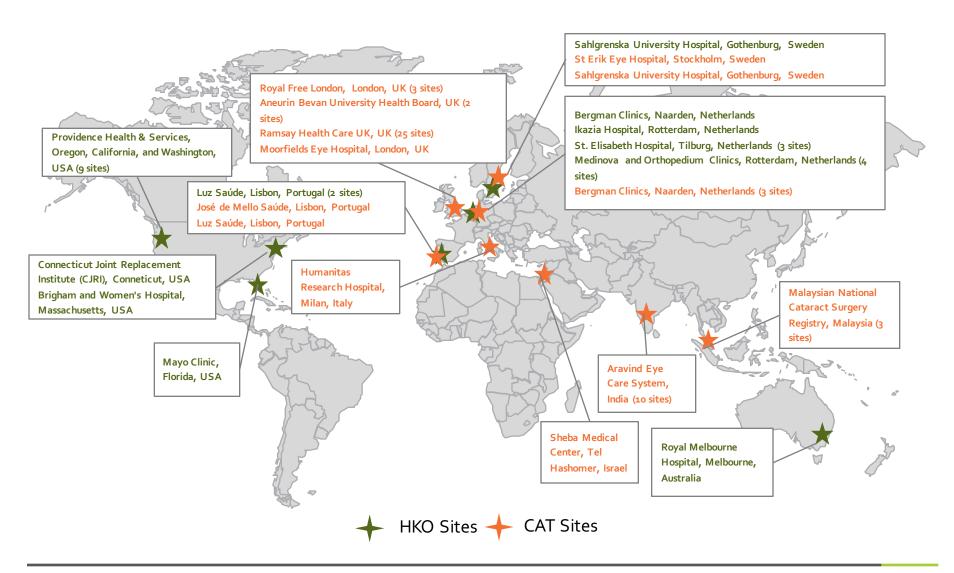
"Best-in-class" organizations identified with intent to publish analyses of relative performance

Sample output

(Hip/Knee/Osteoarthritis)



GLOBE Participants in HKO and CAT Pilots



Agenda

Background

Standard Set Development

Implementation and Benchmarking

Further developments

ICHOM is leading the development of Value Based commissioning and procurement programs



Erasmus MC Value Based Payment, Netherlands

ICHOM and Erasmus MC have worked together to establish bundled payments for stroke services



- Aim: Bundled-payment system for integrated stroke services in Rotterdam
- Progress: Stroke care partners (6) have agreed to formally work together to measure a set of outcomes and costs
- Next steps: Explore how payments can be linked to outcomes in 1 contract in 2018



Menzis Value Based Payment, Netherlands

ICHOM and Menzis have worked together to develop value based bundled payments

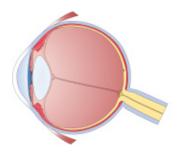


- Aim: Bundled payment system for hip and knee replacements, incorporating improvement cycles and supporting care integration
- Progress: Payment system on track to go live in early 2018
- **Next steps:** Launch the contract in early 2018



Wales Value Based Procurement, UK

ICHOM and NHS Wales have worked together to conduct a value based procurement pilot



- Aim: Link payment for cataract supplies to outcomes
- Progress: Supplier preliminary proposals/ideas received
- Next steps: Formally launch the value-based procurement tender

ICHOM is catalyzing the introduction of Value Based Health Care into medical education



Opportunity

The medical education initiative presents a unique opportunity to increase the awareness and practice of value based healthcare (VBHC)



Objective

The objective of the medical education initiative is to mobilize a multi-stakeholder committee to develop a VBHC curriculum for undergraduate and post-graduate students



Stakeholders

Key stakeholders include

Swansea Medical School

(UK), Erasmus MC

(Netherlands), and Cascais

Medical School (Portugal)







Completion of curriculum anticipated in 2018 – materials will serve as a model for future VBHC education initiatives