



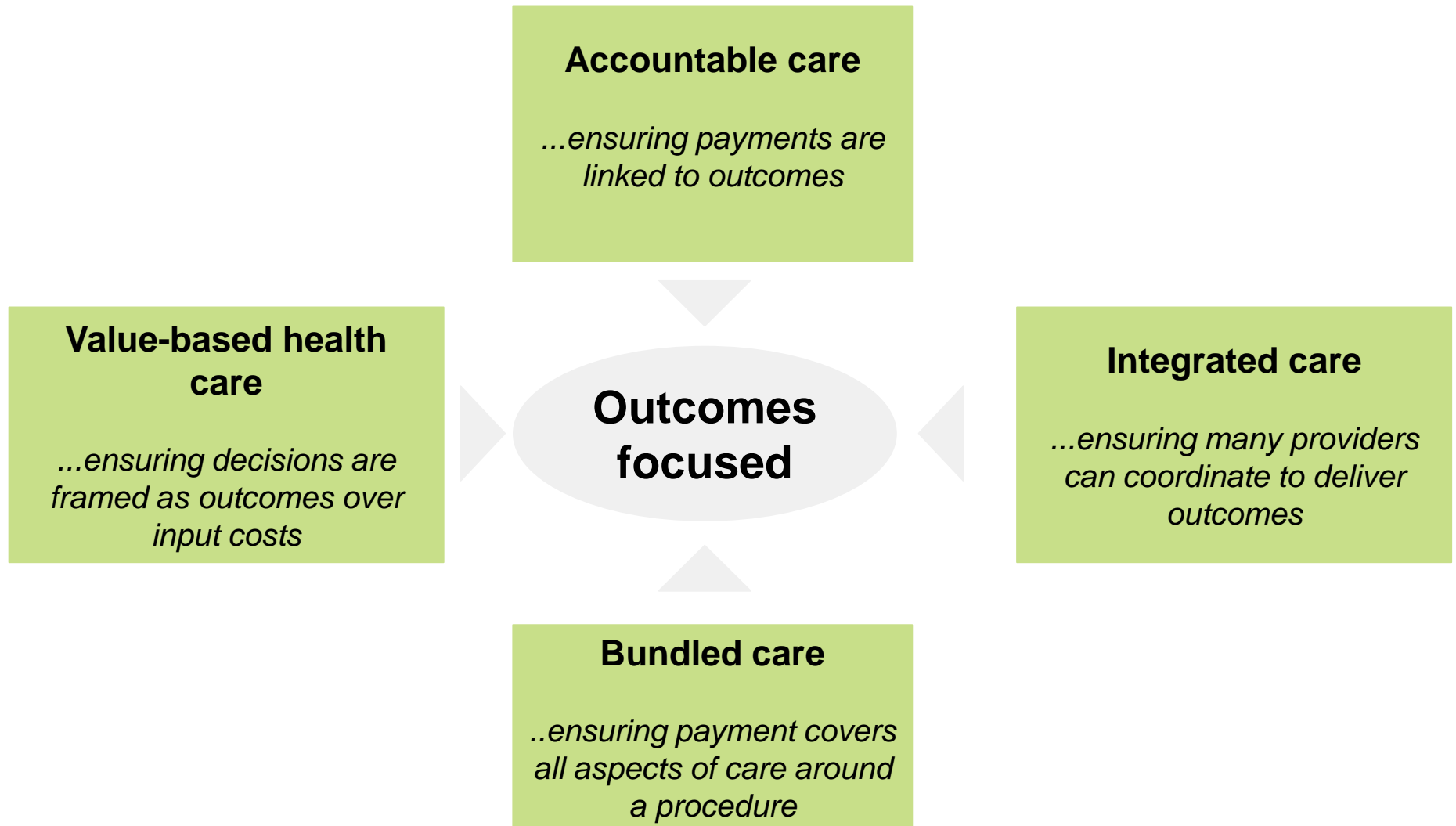
International Consortium for Health Outcomes Measurement

Dr James Kent, BCG
Dr Tom Kelley, ICHOM

Kings Fund

18th November 2014

Evolving healthcare systems



Problem

Paucity of outcomes data

Where available, hard to compare

Too much time spend in 'definitions' meetings



Lack of standardisation

- Barrier to transparency
- Inability to compare and learn
- Slow pace of change

Solution



Independent, not-for-profit

Focus on standards, not collecting data

Build on the best, selecting not redefining

Focus on outcomes that matter to patients

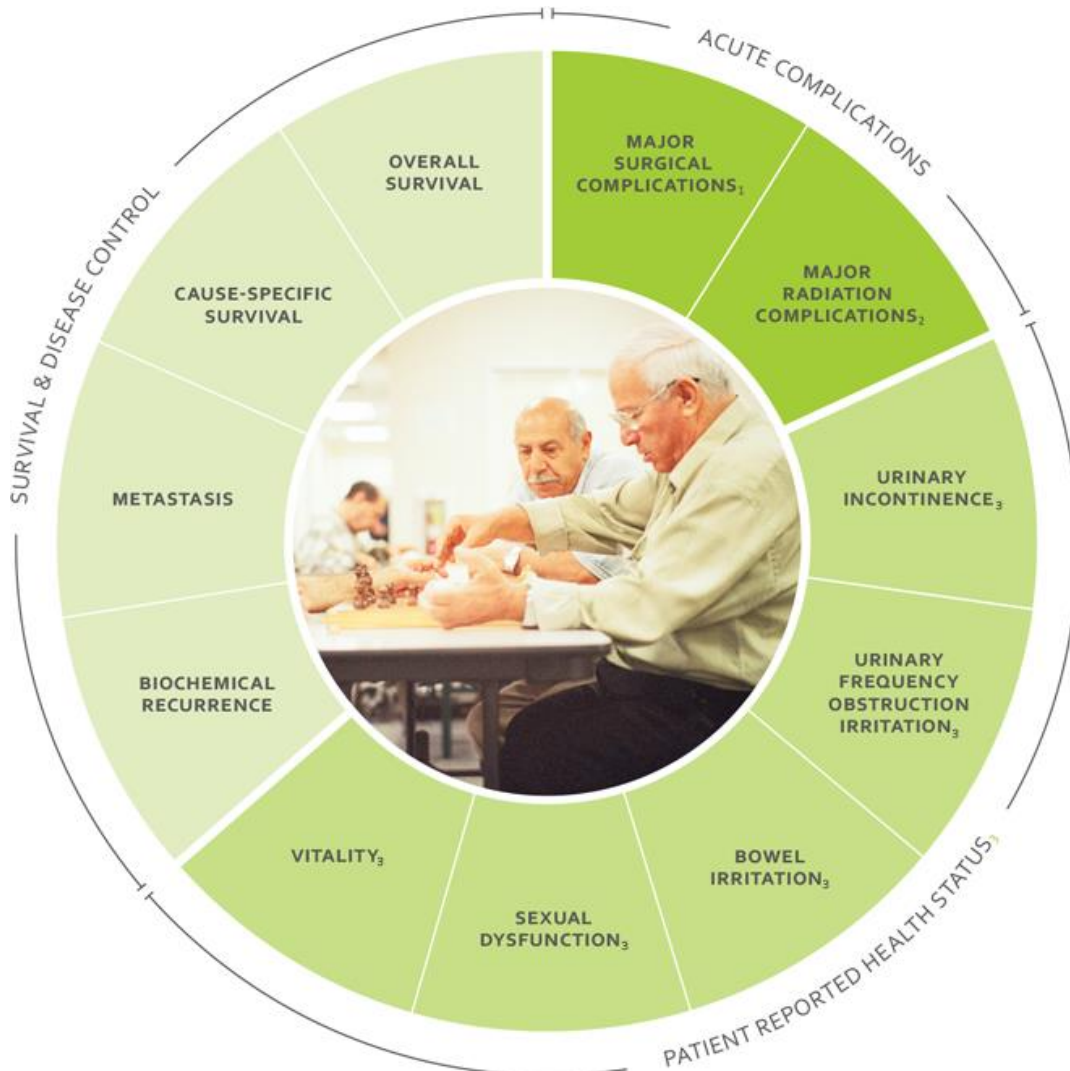
- 'Minimum set'

Open source

Three objectives

- 1 Define internationally recognized Standard Sets of outcomes**
 - Together with risk adjustment factors
- 2 Drive the adoption of Standard Sets globally**
 - Wide dissemination among clinicians and patient groups
- 3 Create global communities focused on outcome comparison**
 - Support learning, and practice improvement

Localized Prostate Cancer Set



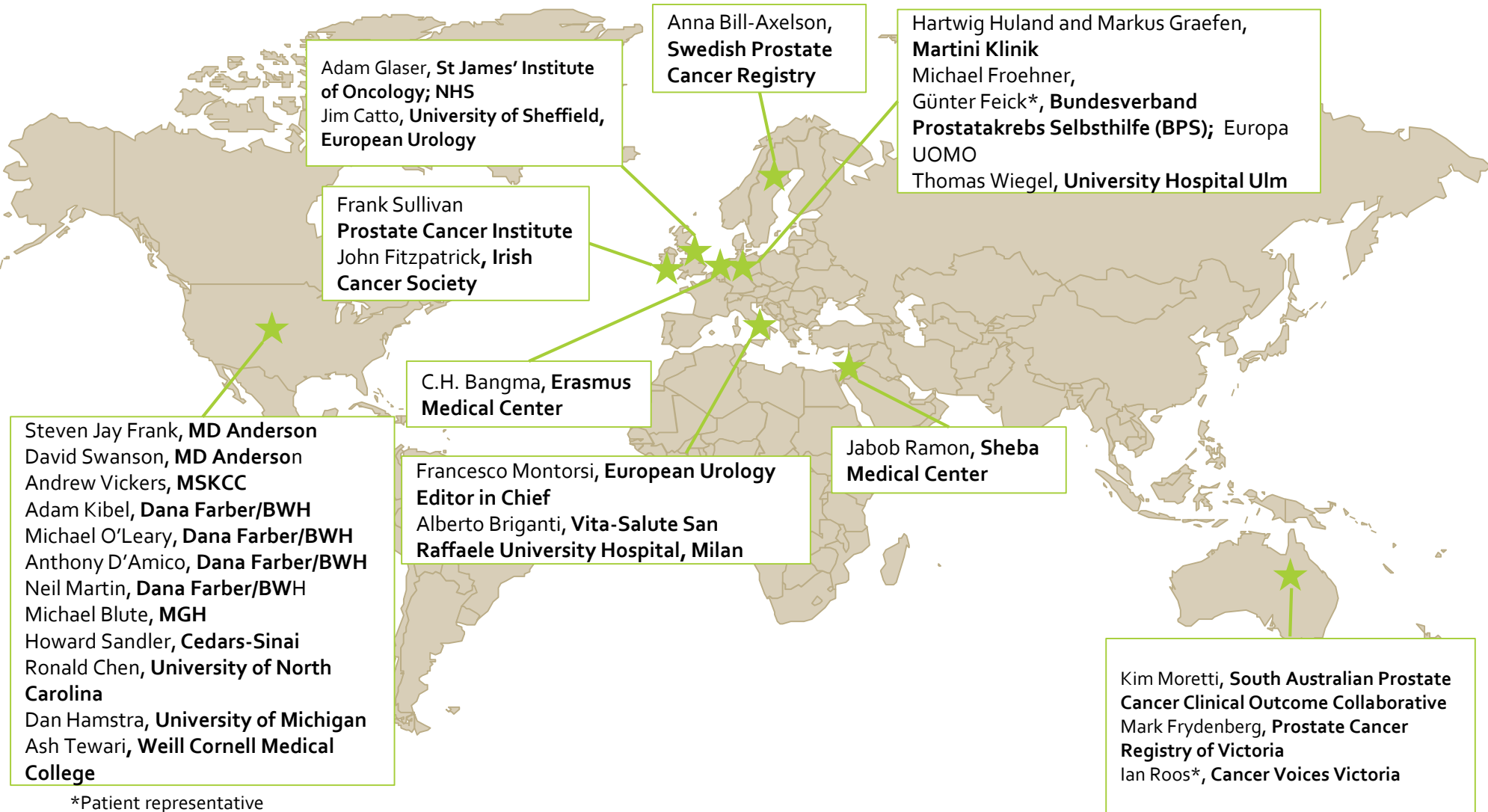
Treatment approaches covered

- Watchful waiting
- Active surveillance
- Prostatectomy
- External beam radiation therapy
- Brachytherapy
- Androgen Deprivation Treatment
- Other

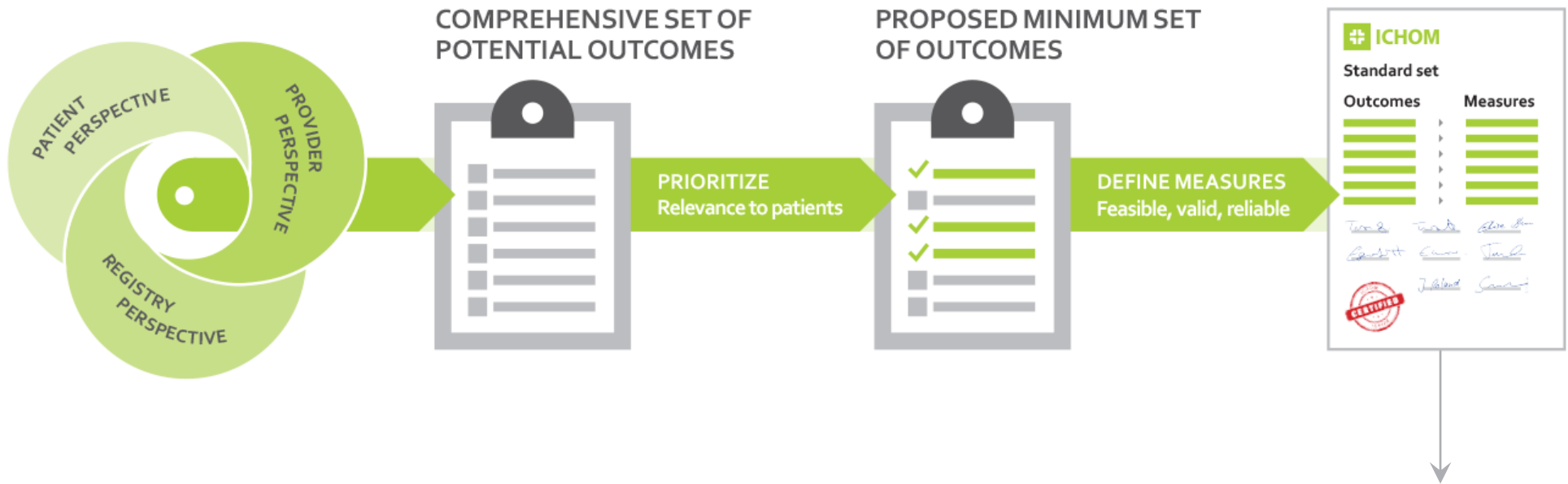
Details

- 1 Recorded via the Clavien-Dindo-Classification
- 2 Recorded via the Common Terminology Criteria for Adverse Events (CTCAE), version 4.0
- 3 Recommended to track via the Expanded Prostate Cancer Index Composite (EPIC)-26

Prostate Cancer Working Group



Working Group process



After outcomes and measures are defined, a similar process follows to identify and define an accompanying set of risk factors and initial conditions

Criteria to prioritise outcomes

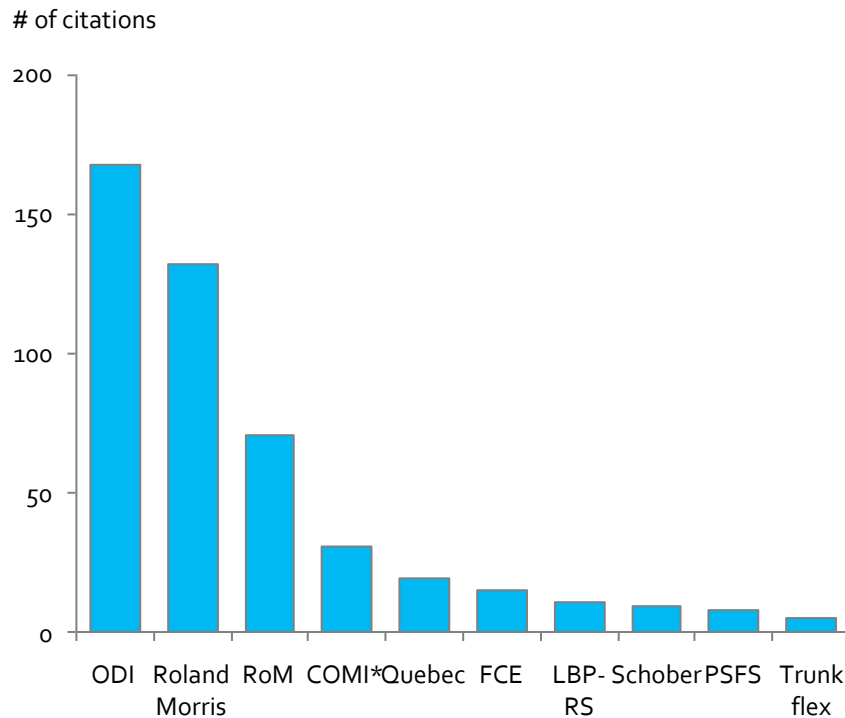
Example: Complications after spine surgery, part of Low Back Pain Standard Set

	Outcome	Frequency (5=high)	Severity (5=high)	Avoidability (5=high)	Feasibility to capture (5= easy)
Suggest Including	Nerve root injury incl. cauda equina	++	++++	+++	++++
	Deep wound infection (e.g., meningitis, discitis, osteitis)	++	+++++	+++	++++
	Pulmonary embolus	+	+++++	++++	++++
	Wrong site procedure	+	++++	+++++	+++++
Up for Debate	Vascular injury	+	+++	+++	++++
	Dural tear/ CSF leak	++	++	+++	+++
	Wound dehiscence	++	++	+++	++++
Suggest not Including	Hematoma	+++	++	+++	+++
	Superficial infection (cellulitis)	+++	+	+++	+++
	Malpositioned implant	++	+	+++	+++
	Long OR/anesthesia time	++	+	++	++++
	Hemorrhage/blood transfusion required	+	+	+++	++++

Criteria to select PROMs

Example: Selecting the best measure of disability in Low Back Pain

Top 10 frequently cited measures of function in LBP (2001-2011)



ODI short and well translated, license grants access to high-quality translations

	ODI	Roland Morris	COMI
# of languages (val.transl)	14	9	9
# of items	10	24	7
Valid	Yes	Yes	Yes
Reliable	Yes	Yes	Yes
Responsive	Yes	Yes	Yes
Needs license	Yes (no cost)	No	No
Clinical interpretability	+++	+	+

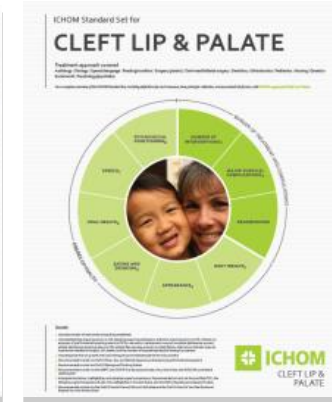
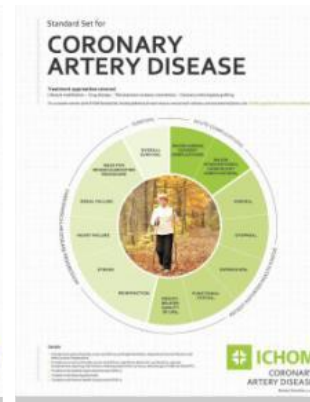
* Pubmed search on "COMI, Back Pain, 2001-2011"

Note: RoM, Range of Motion; FCE, Functional Capacity Evaluation; LBP-RS, LBP rating scale; PSFS, Patient-specific functional scale

Source: Chapman et al, Measuring Treatment Success for Chronic Low Back Pain, Spine 2011; Mannion et al, Outcome assessment in low back pain: how low can you go?, Eur Spine J., 2005

All Sets contain Patient Reported Outcomes

Standard Sets



PRO tools

MDS-UPDRS

Catquest 9SF

ODI

SAQ-7

Cleft-Q

NMSQuest

NPS

PHQ-2

NOSE scale

PDQ-8

EQ-5D

Rose

ICHOM Sets that we are developing



Our Sets are used by 45+ institutions



Examples

- **MD Anderson (US)** – Localized Prostate Cancer
- **Stanford University (US)** – Low Back Pain
- **The Ohio State University (US)** – Low Back Pain
- **Mayo Clinic (US)** – Parkinson's Disease
- **Fortis Health Care (IN)** – Coronary Artery Disease
- **Aravind (IN)** - Cataracts
- **Martini Klinik (DE)** – Localized Prostate Cancer
- **Hamburg Brachytherapy (DE)** – Localized Prostate Cancer
- **Australian Prostate Cancer Clinical Registry (AU)** – Localized Prostate Cancer

Driving adoption in the UK

Existing collaboration
*Supporting the development
of our Sets*



Potential Pilot Sites
*Leading centres working to
use our Sets*



National adoption
*Sets used by national
measurement efforts*



Creating communities: global network for CLP



Great Ormond Street Hospital Charity



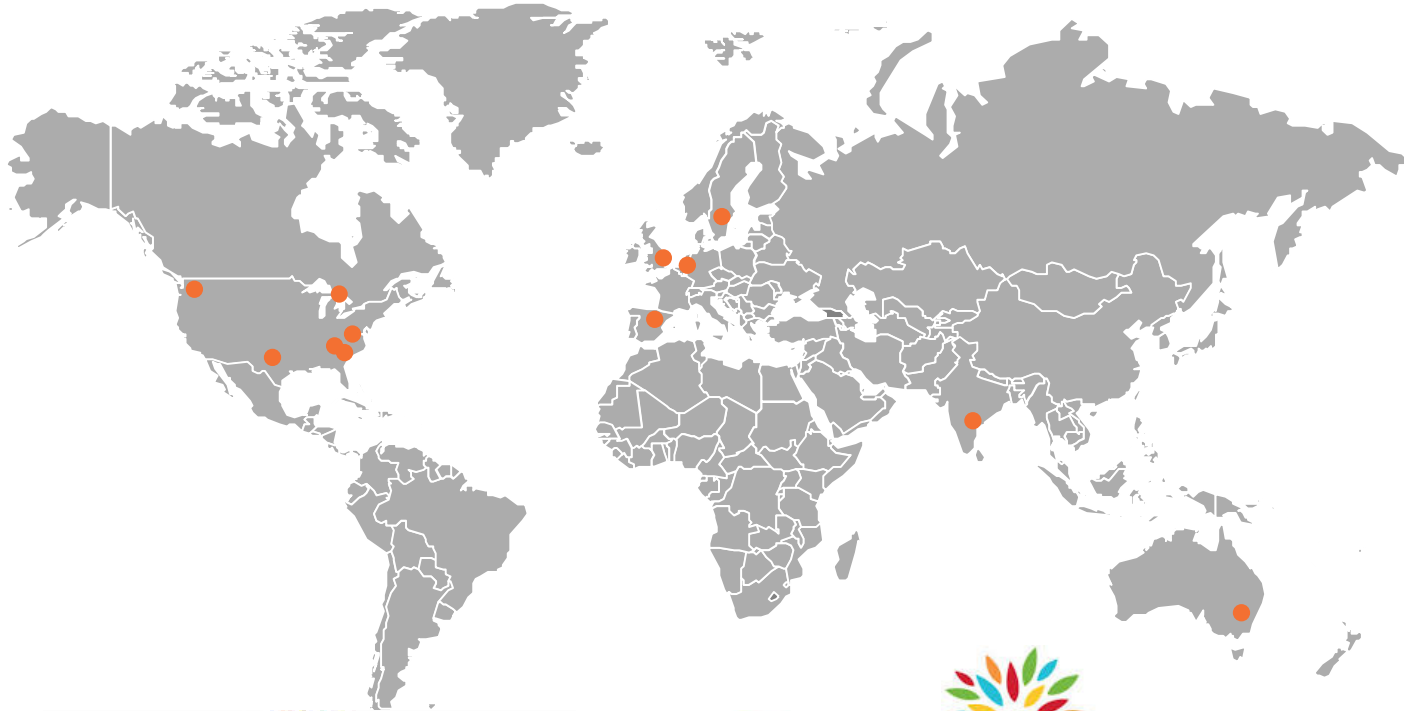
HOSPITAL MATERNOINFANTIL UNIVERSITAT DE BARCELONA



Until every child is well



Seattle Children's HOSPITAL • RESEARCH • FOUNDATION



Group of 12 hospitals formed – aim to begin collection mid 2015

Recap: three objectives

- 1 Define internationally recognized Standard Sets of outcomes**
 - Building on the best

- 2 Drive the adoption of Standard Sets globally**
 - Open Source to encourage roll-out

- 3 Create global communities**
 - Driving comparison, learning, and practice improvement