

Towards Value-based Healthcare



Yolima Cossio-Gil MD MPH

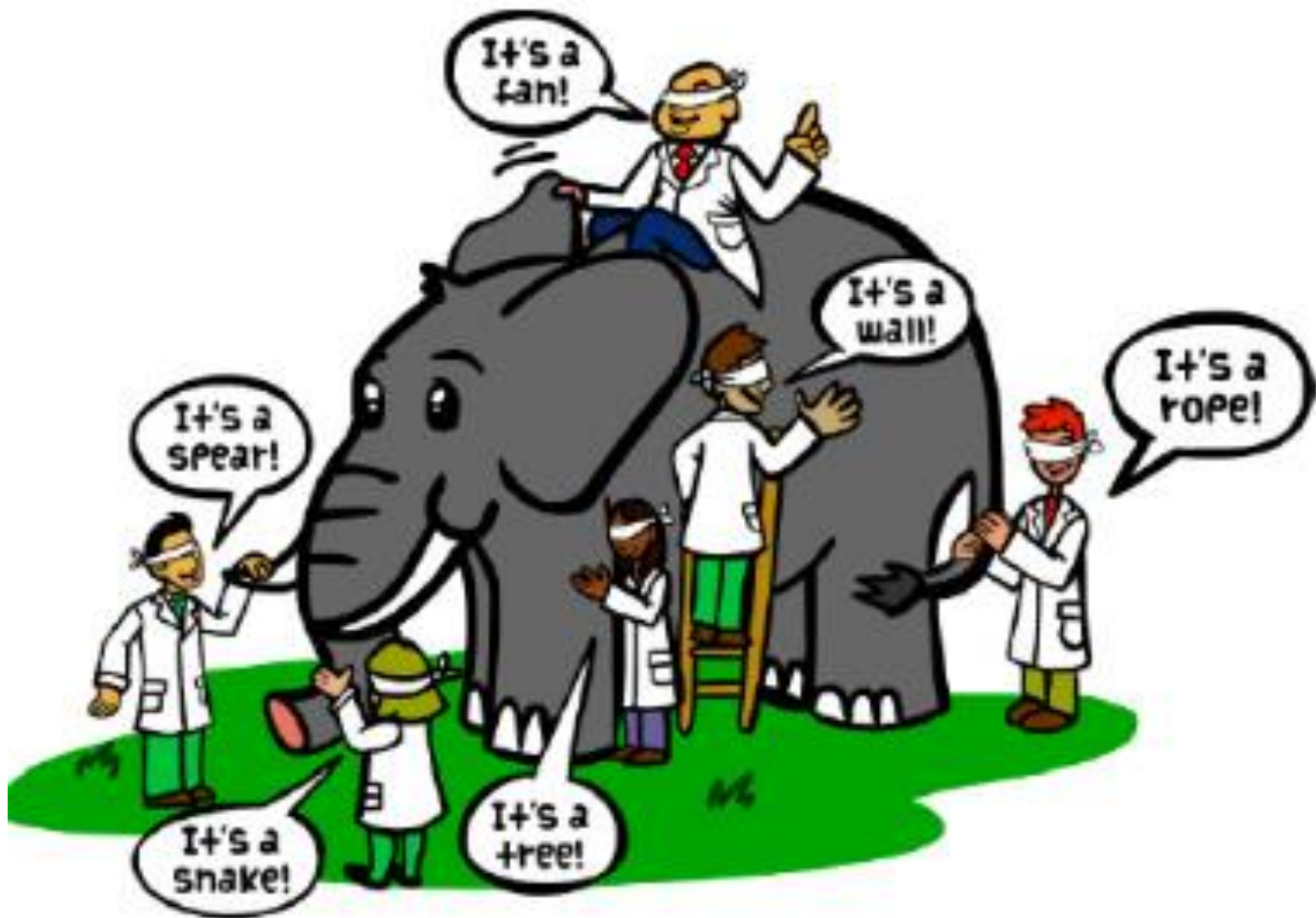
Associate Director Evaluation & Data Management

Vall d'Hebron University Hospital

Barcelona



What is Value in Health care?



Important

Worth



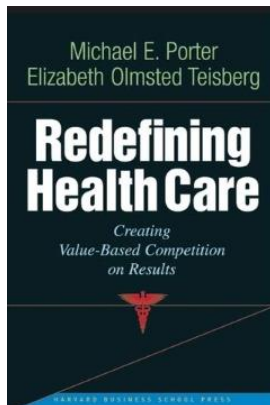
VALUE

Useful

Significant

Central goal:

Value for the patient



The NEW ENGLAND JOURNAL of MEDICINE

What Is Value in Health Care?

Michael E. Porter, Ph.D.

Perspective

DECEMBER 23, 2010

Value-based Healthcare (VBHC)

***Outcomes
that matter to patients***

VALUE=

***Cost of delivering
the outcomes***



How to measure Value?

**How to implement
VBHC?**

Components of the Value-agenda



From M. Porter. The Strategy that will fix the Healthcare. Harvard Business Review. 2013



Improve health outcomes

**It requires
holistic
perspective
on system
set-up**




All stakeholders play a role

- ✓ Providers
- ✓ Patients
- ✓ Supplier
- ✓ Payers
- ✓ Regulators



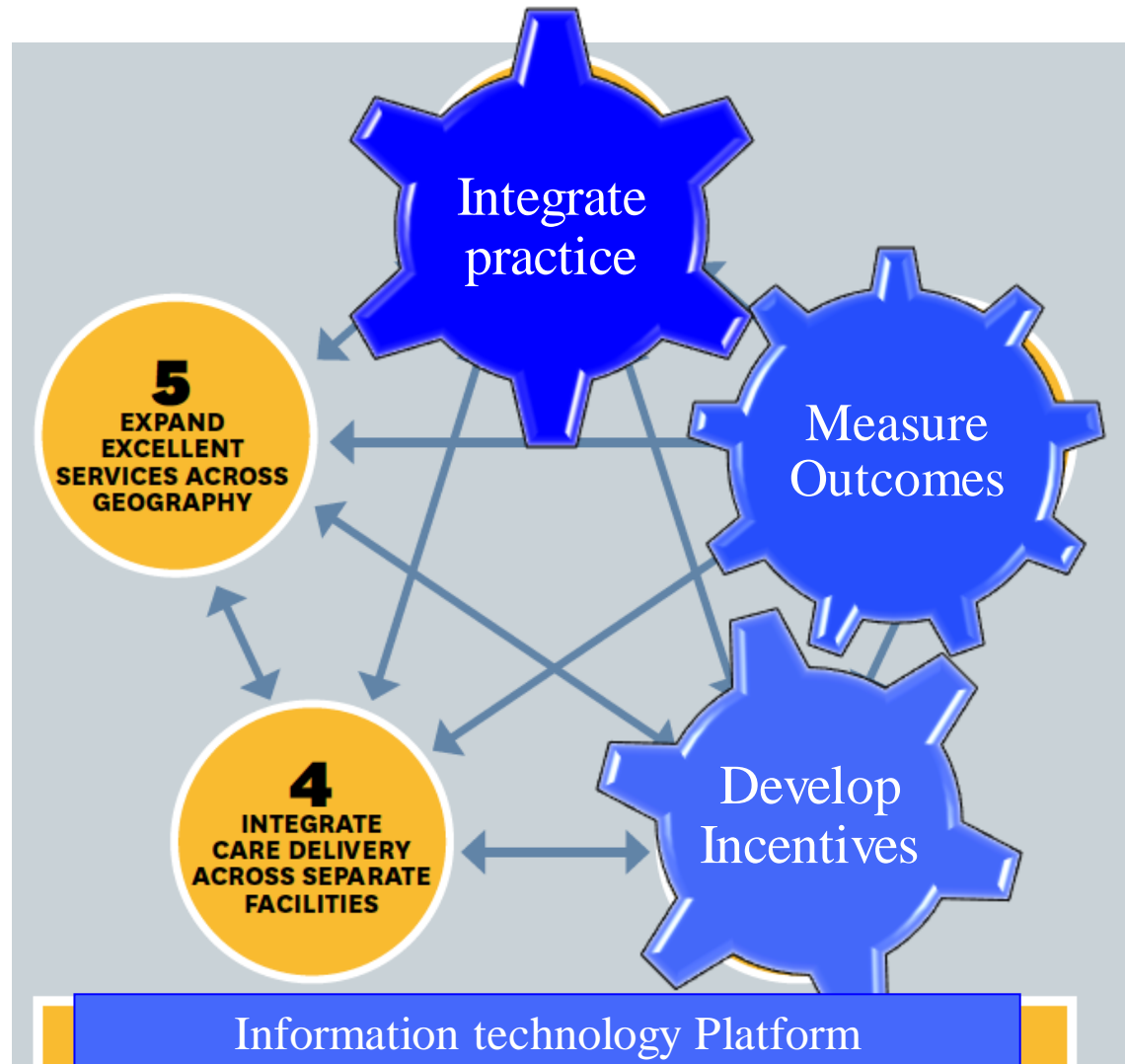
Case Study Catalunya

Health Care System in Catalonia

- 
- ✓ National Health System
 - ✓ Universal coverage. Funded by Taxes
 - ✓ Spending 9,1% of Catalan GDP
 - ✓ Multi-provider system
 - ✓ Payment system mainly
 - Primary Care Capita
 - Hospital Discharge + complexity

 **Catalonia**

Organize care around a single medical condition



***Provider
+
Patients***

Welcome to
**Vall
d'Hebron**
Barcelona Hospital Campus



Provider:

**The largest and most complex
University Hospital**



+ 9,000 professionals

+ 22 buildings

+ 450,000 reference population

+ 47 training specialities

+ 1,100 beds

+ 531 residents

+ 58,000 discharges/year

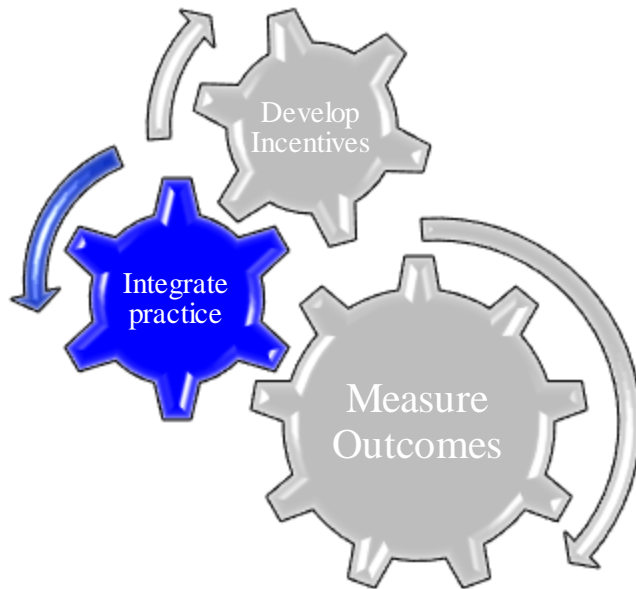
+ 80 research groups

+ 42,000 surgical Interventions/
year

+ 900 clinical trials

Key components of VBHC

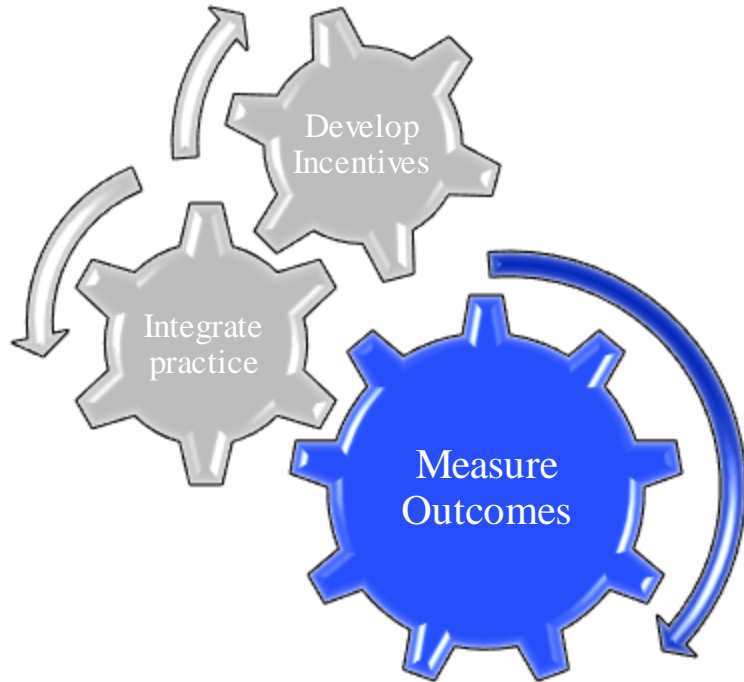
Integrate Practices



- ✓ Organize around medical conditions and target population
- ✓ Better coordinate, avoid silos and lack of accountability in organization
- ✓ Increase expertise of the care teams

Key components of VBHC

Measure Outcomes



- ✓ Identify outcomes that matter to patients
- ✓ Make data trustworthy
- ✓ Track and share results
- ✓ Empower
- ✓ Learn and Identify best practices
- ✓ Improve

How to Choose the Outcomes?

Ask the
patients

Ask the
clinical team



Outcomes that matter to the patient

Survival and
Disease control

Disutility of
Care

Quality of Life

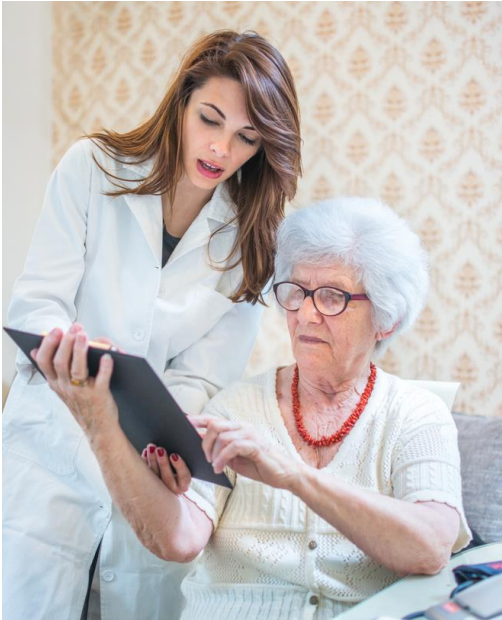


Patient Reported Outcomes
(PROMs)

Patient Reported Experience
(PREMs)



Engage patients



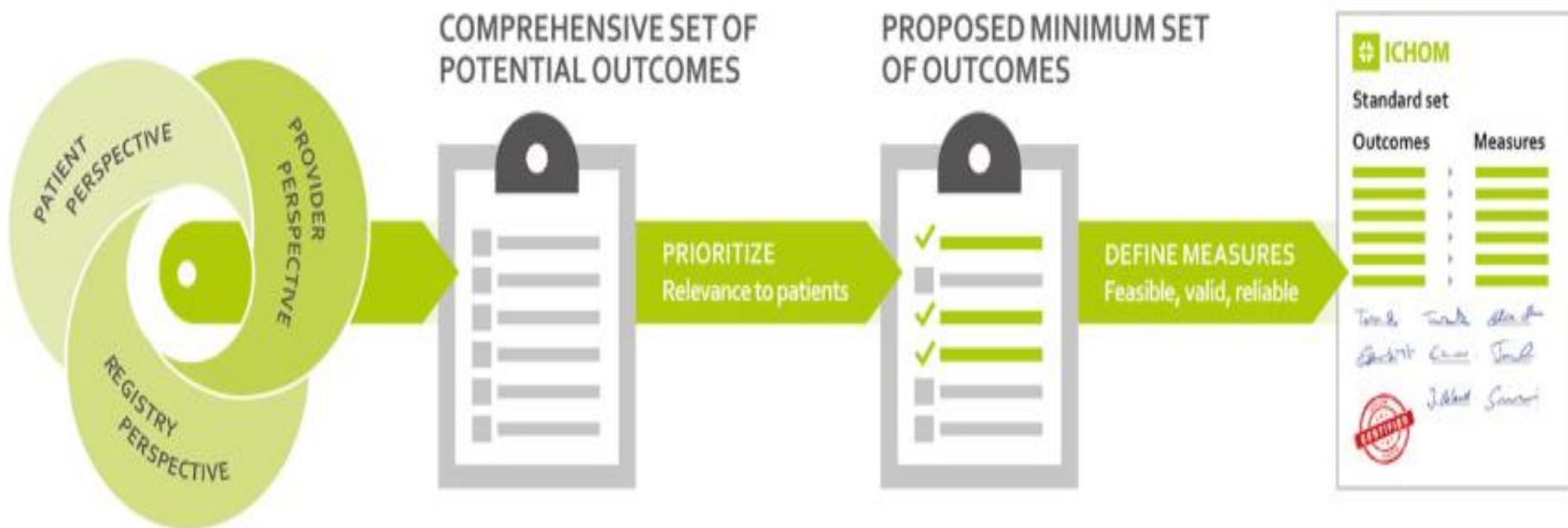
- ✓ **Make it easy**
 - Length
 - Collecting form
 - Time



- ✓ **Make it relevant**
 - Part of the care
 - Recommended by the staff
 - Use responses in real time to care for the patient

Choosing the measurement tool

International Consortium for Health Outcomes Measurement (ICHOM): Validated questionnaires and Standardized set

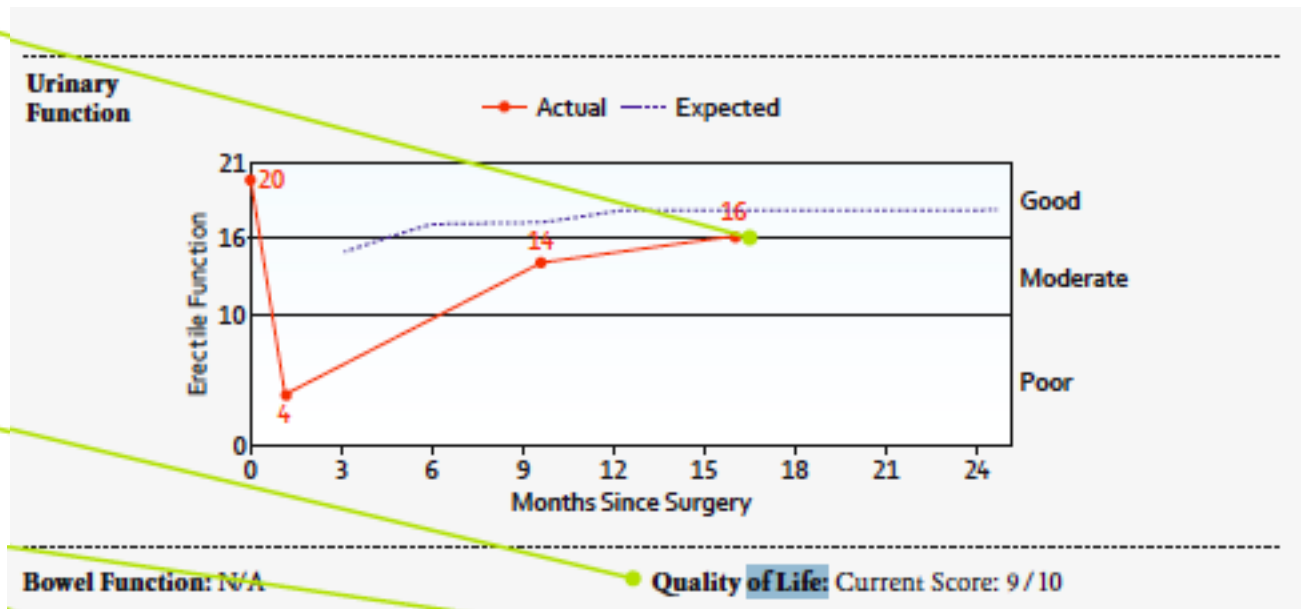


Engage clinicians

- ✓ Reduce administrative burden
- ✓ Make it easy to interpret
- ✓ Provide comparison
- ✓ Incorporate the EHR in real time

But his urinary function has improved to "good".

Quality of Life Score



Engage the team

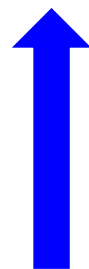
- ✓ Feedback to the team
 - Ensure quality of data
 - Risk-adjusted reports
- ✓ Compare and Benchmarking
- ✓ Act on data

**Health status
achieved**

Process of recovery

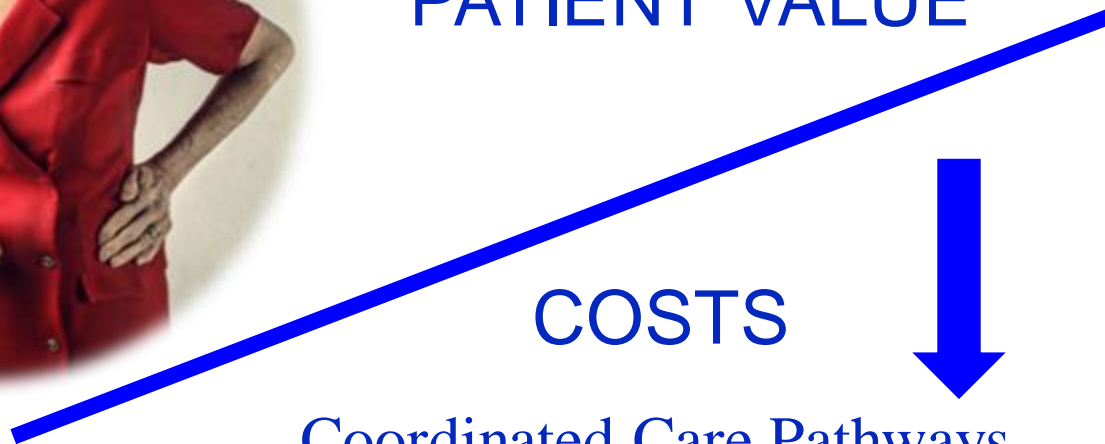
**Sustainability of
health**





Disease Control
Quality of Life
Productivity

PATIENT VALUE



COSTS



Coordinated Care Pathways
Avoid complications and
non value activities
Increase innovation

- ✓ Supplier
- ✓ Payers
- ✓ Regulators



- **46 million** primary care visits per year
- **760.000** hospital discharges per year
- **60 million** electronic health record documents
- **100.000** convalescence discharges per year
- **2.7 million** visits to emergency units
- **140 million** electronic prescriptions per year

68

Hospitals

369

Primary care
teams

49

Mental health
centers

72

Convalescence
centers

Risk-sharing arrangements

- ✓ Schemes of Payments per Results
(**EPR: Esquema de Pagament basat en Resultats**)
- ✓ Efficacy, Safety
- ✓ Quality of life of patients



GUIA PER A LA DEFINICIÓ DE CRITERIS D'APLICACIÓ D'ESQUEMES DE PAGAMENT BASATS EN RESULTATS (EPR) EN L'ÀMBIT FARMACOTERAPÈUTIC (ACORDS DE RISC COMPARTIT)

MAIG 2014
Versió 1.0

Comprehensive treatment, enhanced by digital technologies, of patients with Automated implantable cardioverter defibrillator (AICD) including cardiac re-synchronization for patients in the area of influence of the Hospital

Changing the procurement model

- Price-based procurement
- No collaboration Hospital-supplier
- In-office visits
- Payment for devices provided
- Value-based procurement
- Risk-sharing approach
- Remote monitoring
- New health-outcomes criteria included for payment system

Innovation in purchase:
Value- Based
Procurement

Applying the VBHC framework to Hospital Agreement

STEPS TO VALUE-BASED HEALTHCARE

SELECT A DISEASE OR CONDITION 1 ✓	DEVELOP PATIENT COHORTS BASED ON RISK AND PROTOCOLS 2 ✓	DEFINE OUTCOME MEASURES THAT ARE MEANINGFUL FOR PATIENTS 3 ✓	DEFINE TIMEFRAME REQUIRED TO ACHIEVE OPTIMAL OUTCOME 4 ✓	QUANTIFY BASELINE OUTCOMES AND COSTS FOR EACH PATIENT COHORT 5 ✓	DETERMINE PROSPECTIVE PERFORMANCE AND COST OBJECTIVES – THE VALUE PROPOSITION 6 ✓	DEVELOP BUSINESS MODEL 7 ✓
<p>CARDIAC ARRHYTHMIAS AND HEART FAILURE.</p>	<p>PATIENTS IMPLANTED WITH ICDs AND CRTs.</p>	<p>CLINICAL OUTCOMES (inappropriate shocks reduction, % AF detected), FUNCTIONAL OUTCOMES (in-office visits reduction) & PATIENT REPORTED OUTCOMES (RM adherence).</p>	<p>AN ASSESSMENT WILL BE DONE ON A YEARLY BASIS, COMPARING THESE OUTCOMES AGAINST THE BASELINE DATA.</p> <p><i>(Baseline information was collected during one-year experience</i></p>	<p>COST ANALYSIS BASED ON PREVIOUS YEARS' ACTIVITY.</p> <p>Baseline info hospital collaboration agreement for proof of concept:</p> <ul style="list-style-type: none"> Remote Monitoring Center. Outcomes analysis based on Pilot Experience 	<p>EQUAL OR LESS COST WITH BETTER SERVICE AND ALIGNED OBJECTIVES.</p> <p>Brand agnostic Remote Monitoring Service Center for device follow up for all ICD/CRT patient population.</p> <p>Unified information in one system for every device manufacturer.</p>	<p>RISK SHARING BUSINESS MODEL CONSIDERING A FIX COST FOR INTEGRAL MANAGEMENT OF ALL PATIENTS TREATED.</p> <p>BUNDLE PAYMENT INCLUDING SERVICES AND SUPPLIES.</p> <p>Same price during the life of the contract (4 years).</p> <p>If the hospital activity increases beyond than 10%, the contract will be expanded accordingly.</p>

From the hospital:

- barriers from the Tender's department. "change? why?"
- Reducing the prices even more than last year?
- Fears regarding legal issues

From the industry:

- HARD resistance. Not willing to be involved in follow-up and complications of their devices
- HARD resistance to collaborate between different providers
- The whole industry fought against the Hospital tender

Lessons learned (I)

Procuring entities

- Co-creation process requiring a Cultural Change.
- Top-down engagement
- Provider – Procurer interaction
- Multidimensional procurement Team
- Functional analysis of Needs
- Develop outcome-based service specifications : identification of key performance indicators (KPIs) for innovative service is difficult
- Evaluating impact requires a long term plan with assessment at different stages:
 - *Ex-ante (previous)*
 - *During deployment (pay on results)*
 - *Post (after implementation)*
- New schemes of payment

Innovation in
purchase

Lessons learned (II)

Companies

- In all cases the lead customer had an active interest in new solutions to solve immediate or long term problems
- From selling products to provide solutions
- Provider – Procurer interaction
- Build and coordinate a strong consortia is key
- New schemes of payment

Innovation in
purchase

AQuAS – Key Experience & Strengths – Some PCP, PPI and Value-Based projects



Central de Resultats

Dades generals

Satisfacció de les persones usuàries

Adequació

Efectivitat

Seguretat

Eficiència

Dades econòmiques

[Gac Sanit.](#) 2016 Nov;30 Suppl 1:9-13. doi: 10.1016/j.gaceta.2016.05.005.

[Transparency in public health decision-making].

[Article in Spanish]

[García-Altés A](#)¹, [Argimon JM](#)².

[+](#) Author information

Abstract

Improving the quality and transparency of governmental healthcare decision-making has an impact on the health of the population through policies, organisational management and clinical practice. Moreover, the comparison between healthcare centres and the transparent feedback of results to professionals and to the wider public contribute directly to improved results. The "Results Centre" of the Catalan healthcare system measures and disseminates the results achieved by the different healthcare centres in order to facilitate a shared decision-making process, thereby enhancing the quality of healthcare provided to the population of Catalonia (Spain). This is a pioneering initiative in Spain and is aligned with the most advanced countries in terms of policies of transparency and accountability.

The European University Hospital Alliance (EUHA)

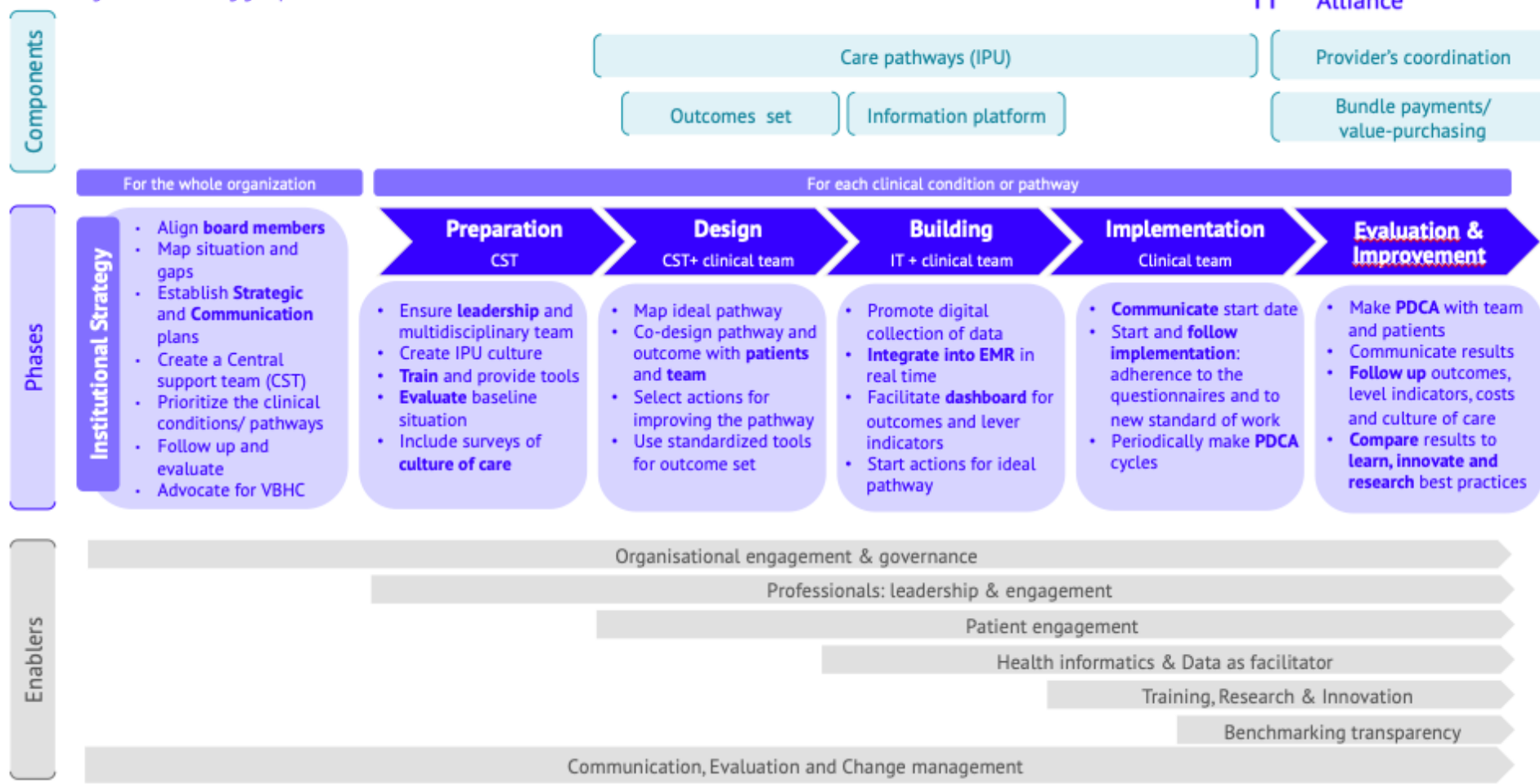


Benchmarking

Learning In ValuE (LIVE)

Blueprint for Implementing Value Driven Health Care in hospitals

Learning In ValuE working group



If the patient wins, we all win!

Facilities staff

Caregivers

Patients

Health Educators

Pharmaceutical

Suppliers

Providers

Payers

Policymakers

Government



Thanks

ycossio@vhebron.net

@yolimacossio