

Improving Health, Healthcare Value and Outcomes Science: A Workshop on Starting a Coproduction Learning Health System

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Disclosures: Glyn Elwyn founded the Option Grid™ patient decision aids, now developed by EBSCO Health, and consults for PatientWisdom Inc. and abridge Inc.



Getting ready...

Please take a seat toward the front of the room.

On a sticky note, write down the focus of your work

- **Population** (example: older adults with mental illness)
- **Place** (example: senior housing)

Agenda

Coproducing Care in a Learning Health System

- Using data to support decisions, improvement, and science (15 min)
- **Exercise: Starting a Learning System in Your Community (20 min)**
- **Share your ideas (15 min)**



Real-life Examples

- Collaborative QI and research: *Multiple Sclerosis (5 min)*
- Patient and clinician co-design: *Palliative Care (5 min)*
- **Exercise: What questions do you have on getting started? (15 min)**

Wrap-up

- Join a “community of practice” (5 min)

Objectives

- ❖ Describe components of a coproduction learning health system (CLHS)
- ❖ Identify tools that support coproduction, shared decision-making, and collaborative goal setting.
- ❖ Identify practical steps to starting a CLHS in your community.
- ❖ Know how to connect, learn, and share with others in a community of practice

Coproducing Care in a Learning Health System





I prefer this
option ...



How much effort was made to help you understand your health issues?

0	1	2	3	4	5	6	7	8	9
No effort was made									Every effort was made

How much effort was made to listen to the things that matter most to you about your health issues?

0	1	2	3	4	5	6	7	8	9
No effort was made									Every effort was made

How much effort was made to include what matters most to you in choosing what to do next?

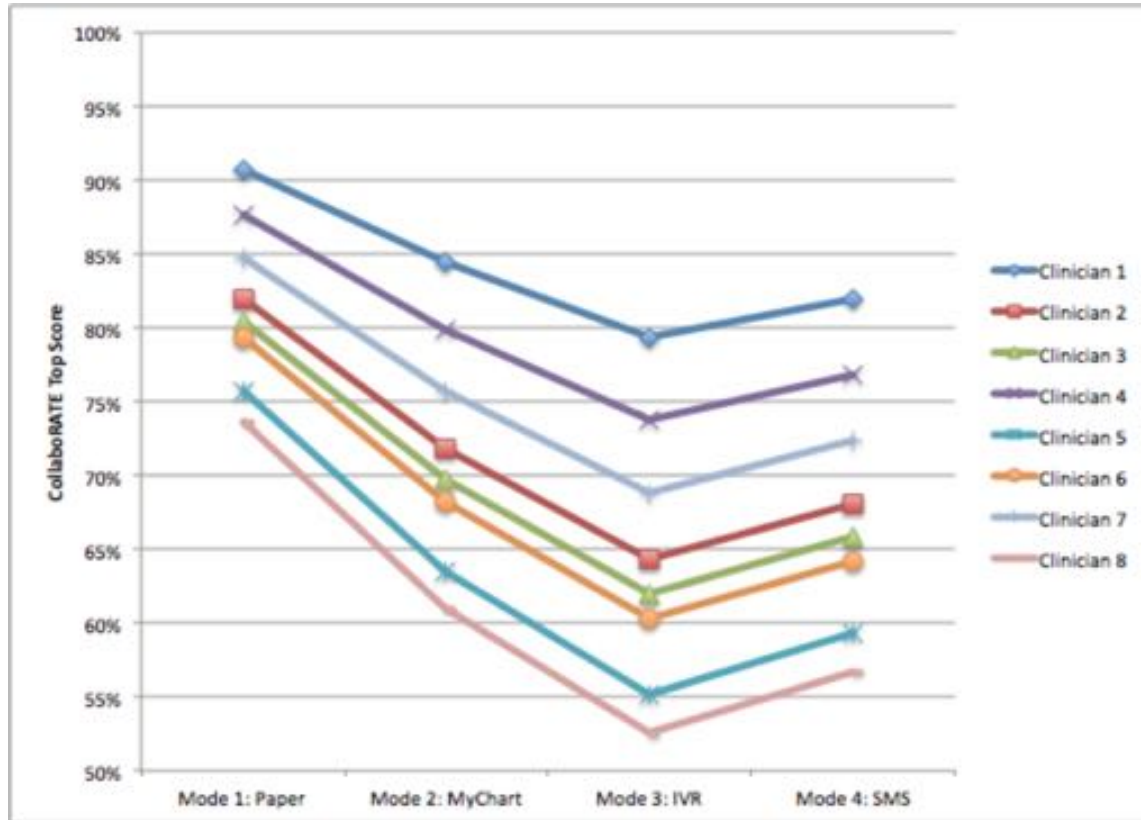
0	1	2	3	4	5	6	7	8	9
No effort was made									Every effort was made

27

64%

collaboRATE scores 8 clinicians

%



Four data collection methods



Developing collaboRATE: A fast and frugal patient-reported measure of shared decision making in clinical encounters. *Patient Educ Couns.* 2013 Jun 11;93(1):102–7.

The psychometric properties of collaboRATE. A fast and frugal patient-reported measure of the shared decision-making process. *J Med Internet Res.* 2014 Jan 3;16(1):e2.

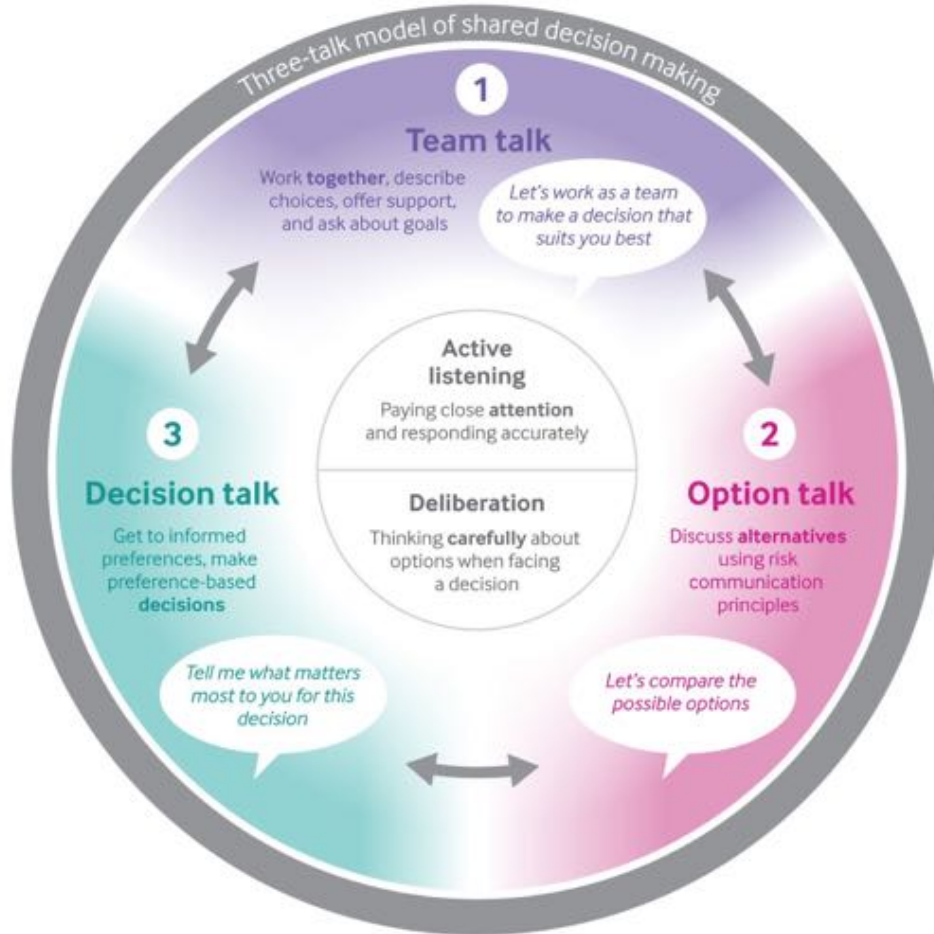
collabo **RATE**TM

integ **RATE**TM

conside **RATE**TM

coope **RATE**TM

Three-talk model of shared decision making



Goal Setting

Fundamental goals

Functional goals

Disease-or symptom-specific goals



PATIENT-PROFESSIONAL PARTNERSHIPS



RESEARCH REGISTRIES



PATIENT & FAMILY SUPPORT NETWORKS

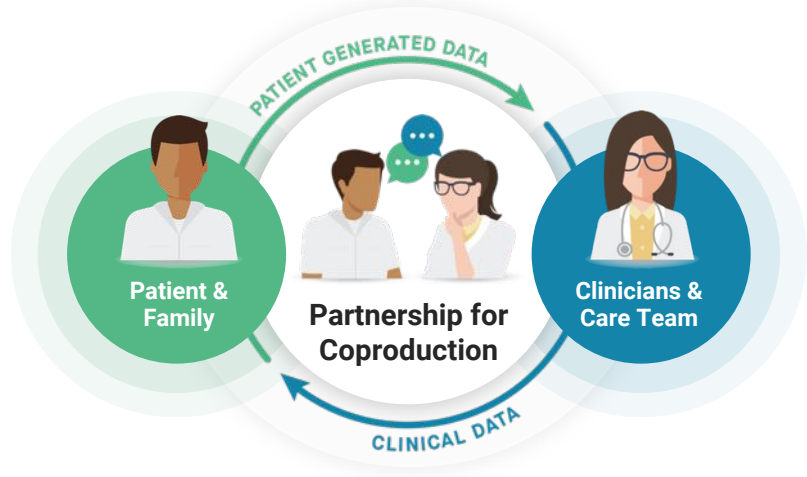


CARE & QUALITY IMPROVEMENT NETWORKS



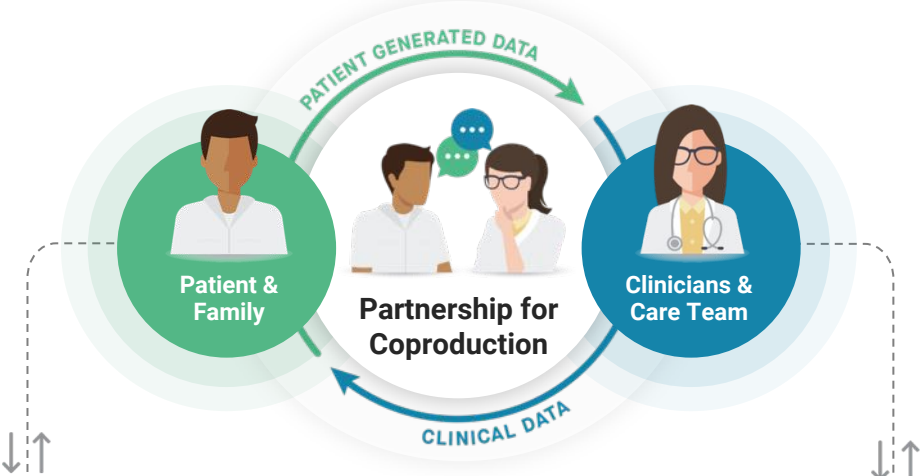
Coproduction-based Learning Health System

Life world



Clinical world

Coproduction-based Learning Health System



Shared Information

Patient-facilitated networks & personal health records

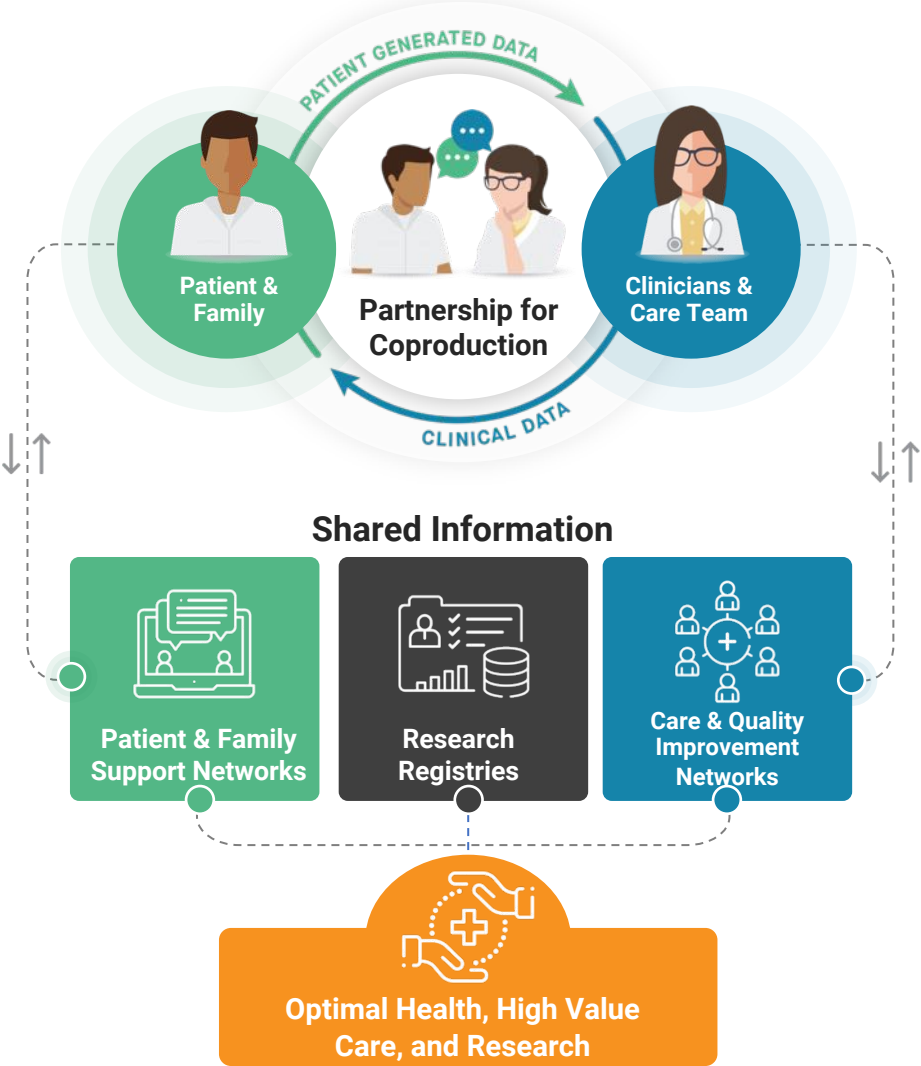
Patient & Family Support Networks

Research Registries

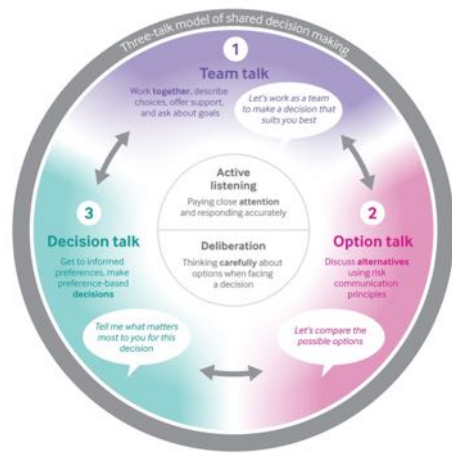
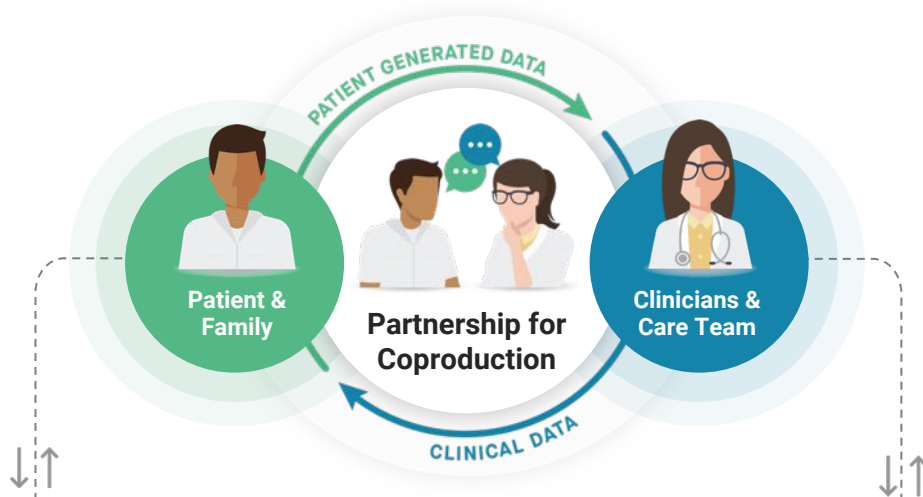
Care & Quality Improvement Networks

Improvement networks & clinic-based electronic health record system

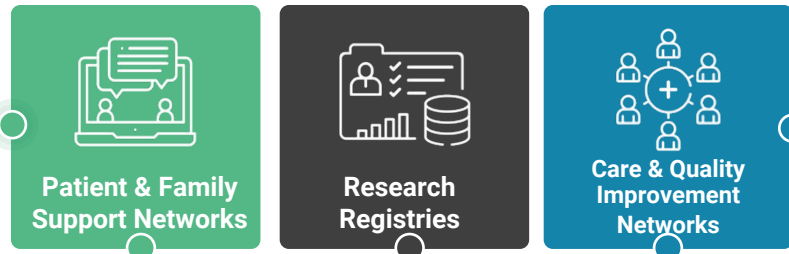
Coproduction-based Learning Health System



Registry-based data for use to support planning, research, quality improvement, and implementation



Shared Information



Using Data to Guide Decision Making

Rheumatology
Inflammatory bowel disease
Cystic fibrosis

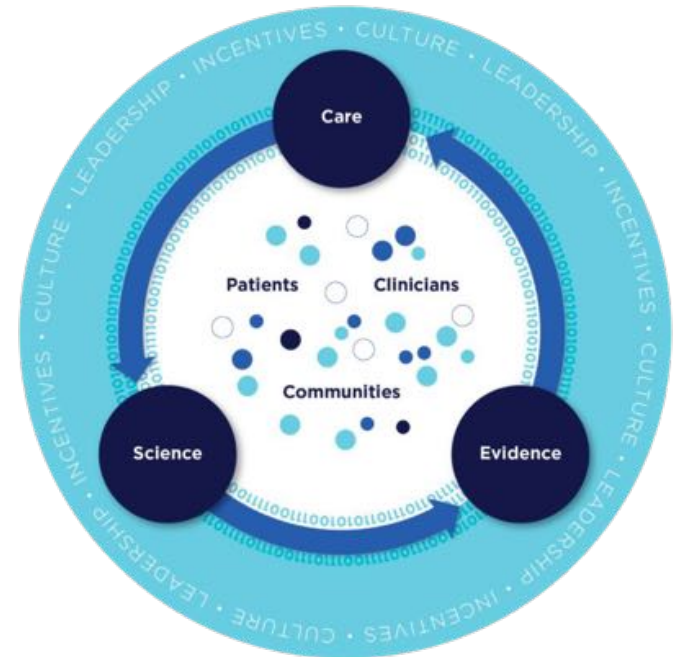
Learning Health Systems (IOM)

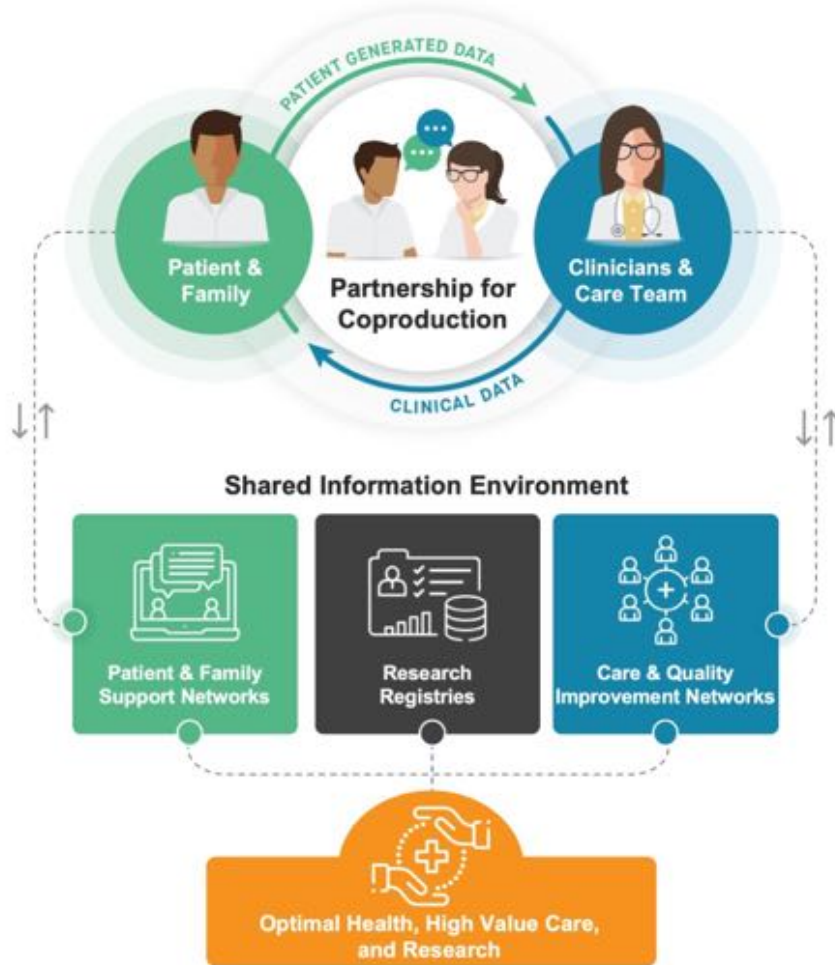
“...Generates and applies the best **evidence** for the **collaborative health care** choices of each patient and provider...

(and) drives the process of discovery (**science**) as a natural outgrowth of patient care...

(and) ensures **innovation, quality, safety, and value** in health care”

Continuous Learning, Best Care, Lower Cost





Model is Being Used for Many Different Populations

- Rheumatology
- Inflammatory Bowel Disease
- Cystic Fibrosis
- Multiple Sclerosis
- Palliative Care
- Serious Illness *
- Cancer *

* LHS based in medical center

SRQ Clinician Coproduction Dashboard

Case in point:

Swedish Rheumatology

Quality Registry

This patient is doing

better!

N of 1 experiment...

Response to biologics



Tabellöversikt										
	Längd / Vikt		Grafisk översikt - Reuma							
Besökstyp										
År	2015	2015	2015	2015	2015	2015	2015	2016	2016	2016
Dag Månad	04-aug	17-sep	24-sep	23-okt	26-nov	23-dec	25-jan	29-feb	01-apr	
Årskontroll										
Kopiera										
Arbetsförmåga	/40	/40	/40	/40	20/40	20/40	20/40	20/20	/40	
Fysisk träning	> 2 h	< 0.5 h			0.5-1 h			< 0.5 h	< 0.5 h	
Vardagsmotion	> 5 h	< 0.5 h			0.5-1 h			0.5-1 h	1.5-2.5 h	
Stillasittande	7-9 h	13-15 h			7-9 h			13-15 h	7-9 h	
Allmän hälsa	0	11	50	45	80	80	45	30	30	
Smärta	16	26	21	35	60	25	22	34	64	
HAQ	1.00	0.00	0.50	1.13	1.25	1.38	0.75	1.25	0.88	
EQ5D	1	1	1		0.552			0.516	0.689	
SR			20	45		45			7	
CRP			10	15		30			2	
Läkarbedömning			Låg	Mått		hög		Mått	Ingen	
Läkarens bedömning av allr										
Svulna leder 28		0	4	3	10	8	3	1	0	
Ömma leder 26		0	3	4	10	8	3	2	0	
DAS28			4.33	4.0	6.51	6.16	4.57	3.1	1.78	
DAS28CRP			4.05	4.19	6.03	5.69	4.04	3.2	1.78	
CDAI										
NSAID										
KORT	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	
KORT dos	15 /1d	15 /1d	15 /1d	15 /1d	20 /1d	20 /1d	20 /1d	20 /1d	15 /1d	
DMARD 1	MTX	MTX	MTX	MTX	MTX	MTX	MTX	MTX	MTX	
DMARD 1 dos	25 /1v	25 /1v	25 /1v	25 /1v	25 /1v	25 /1v	25 /1v	25 /1v	25 /1v	
DMARD 2										
DMARD 2 dos										
DMARD 3										
DMARD 3 dos										
Bioläkemedel 1	REM	REM	REM	REM	REM	ORE	ORE	ORE	ORE	
Bioläkemedel 1 dos	200/8v	200/8v	200/8v	200/8v	200/8v	125/1v	125/1v	125/1v	125/1v	
Bioläkemedel 2										
Bioläkemedel 2 dos										

Nov-Dec

Jan-Apr



**IBD
QORUS™**

Quality driven. Care focused.

Most Important Concerns as of 07/10/2018

I have a family vacation coming up. I want to enjoy the time with my family and not worry about my symptoms.

Symptoms and Disease Activity

WELL BEING	RECTAL BLEEDING	STOOL FREQUENCY	ABDOMINAL PAIN	CRP
Poor	No blood seen	3-4 stools per day more than normal	Moderate	

SELECT DATES: 07/11/2017



TO 07/10/2018



[Run Charts](#)

SYMPTOMS AND DISEASE ACTIVITY





CF Health Check

Welcome to CF Health Check

Use the tools available to manage your health online, track your progress, and provide you with practical ways to manage your treatment.

PATIENT SIGN IN

PROVIDER SIGN IN



What is my #1 concern or goal related to CF?

Add New Item

Date ▼	Notes ⇅
1/3/2018 2:06 PM	Becoming an adult.
1/3/2018 2:02 PM	I am wondering why I do this at every appt.
12/8/2017 12:35 PM	Running with out coughing

1 2 3 4

What do I want to discuss at my next visit?

Add New Item

Date ▼	Notes ⇅
1/3/2018 2:06 PM	Lab Results
1/3/2018 2:02 PM	Lab Results
12/7/2017 10:53 AM	Coping with CF

1 2 3 4 5 6 7 8 9

Trends in Health and Well-being

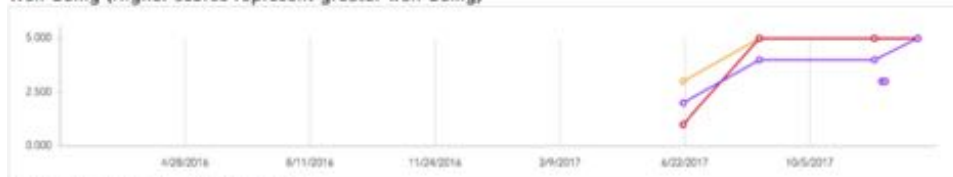


Toggle the switch below the graph to turn on or off the display of each aspect of your health. Hover over data points on the graph to see values.

LEGEND: Quality of Life Physical Health Sadness/Emotional Problems FEV 1 % Predicted Weight

Date Range: Last 2 Years

Well-being (Higher scores represent greater well-being)



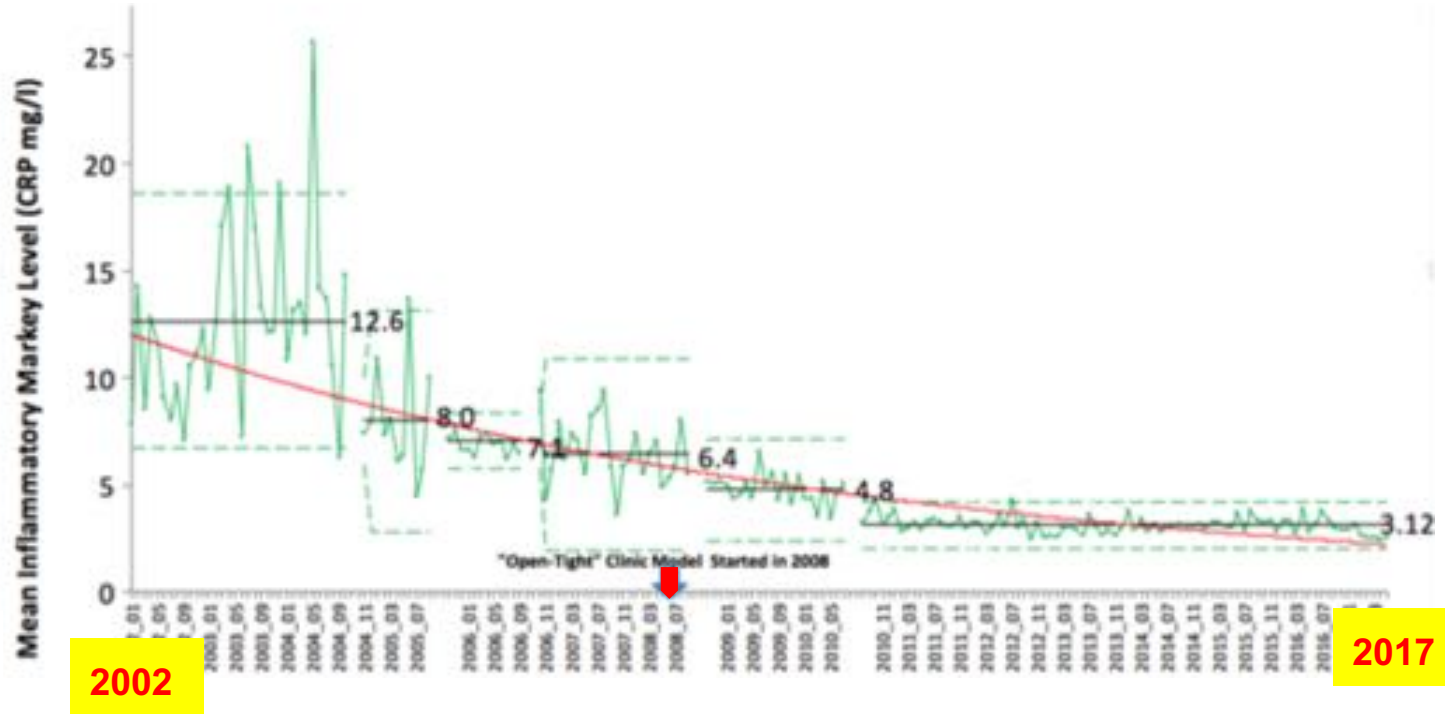
FEV 1 % Predicted and Weight (lbs)



Growing Evidence of Impact on Improving Health Outcomes

Rheumatology
Inflammatory bowel disease
Cancer

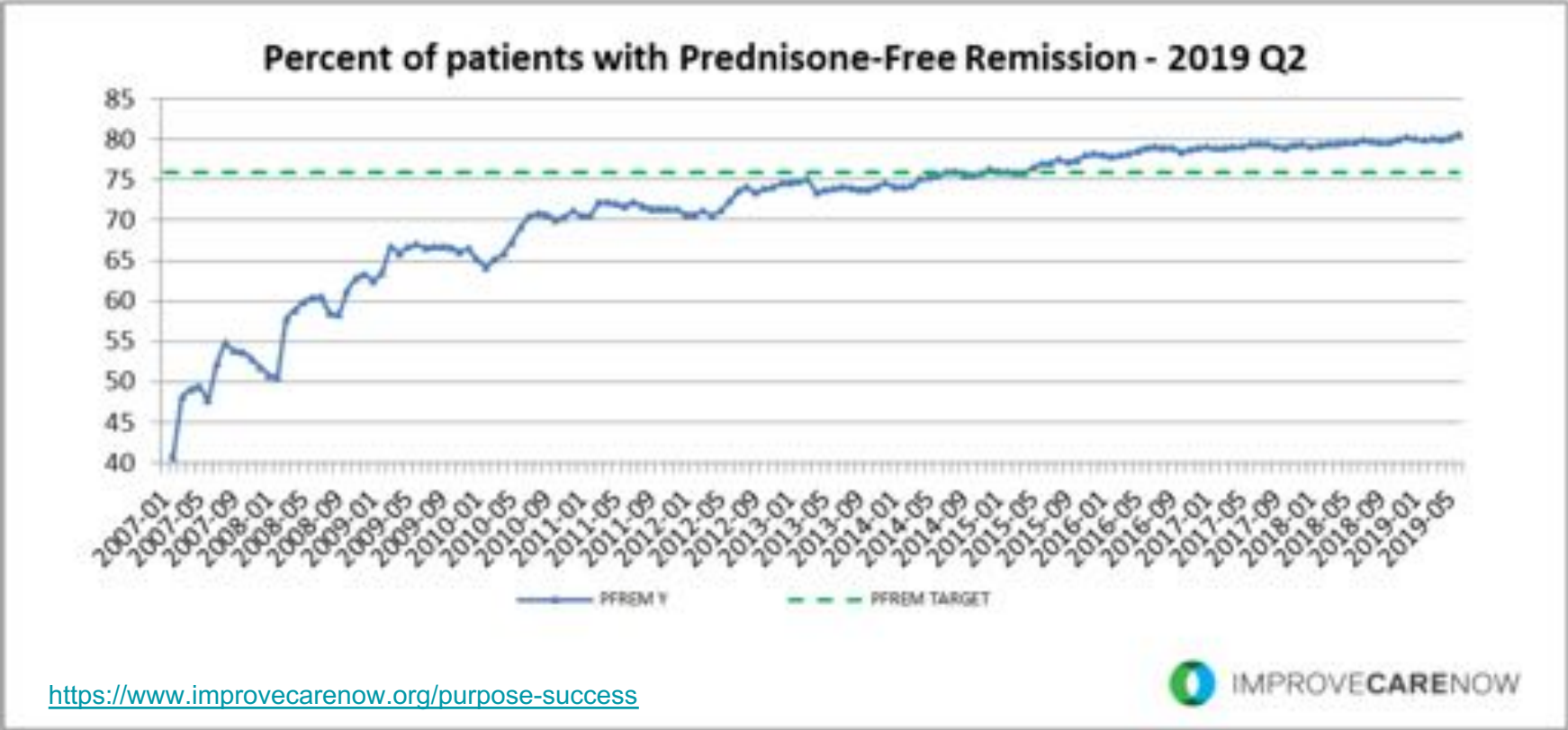
RA Disease Burden in Sweden Decreasing*



* CRP (C reactive protein) levels in RA patients

Godfrey M, Foster TC, Johnson JK, Nelson EC, Batalden P. *Quality by Design: A Clinical Microsystems Approach*. 2nd ed: Jossey Bass; 2018.

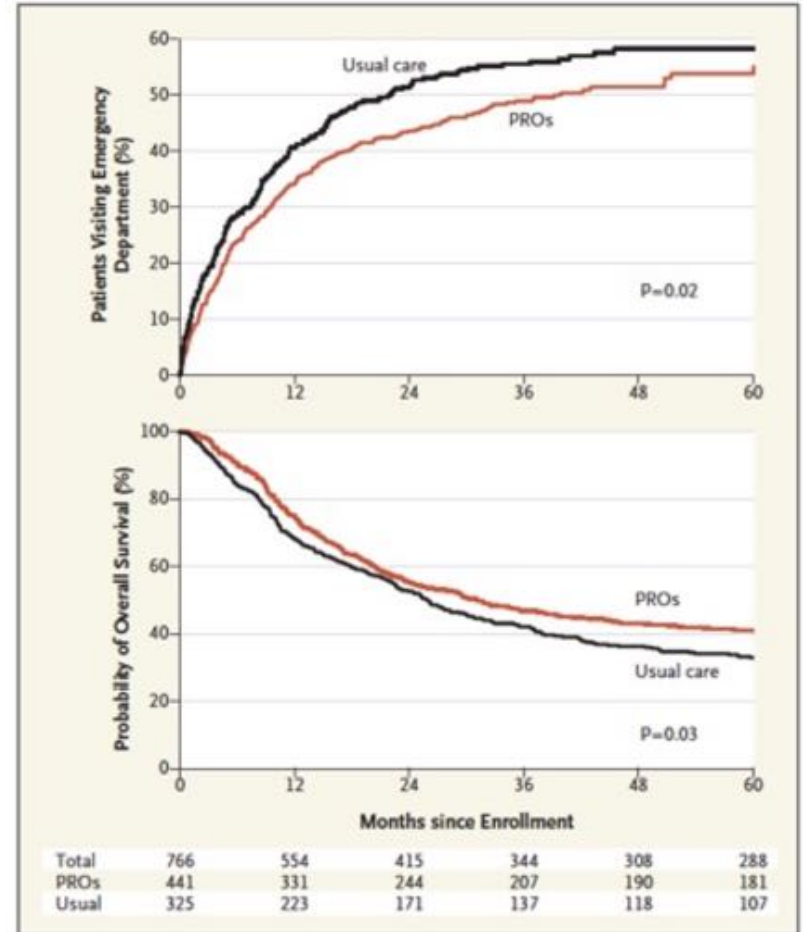
ImproveCareNow (ICN) Network



Emergency Department Visits and Probability of Survival Associated with Integrating Patient-Reported Outcomes (PROs) into Cancer Care

- ED visits decreased
- Survival increased

Basch E. Patient-reported outcomes-harnessing patients' voices to improve clinical care. *New England Journal of Medicine*. 2017; 376(2): 105-8.



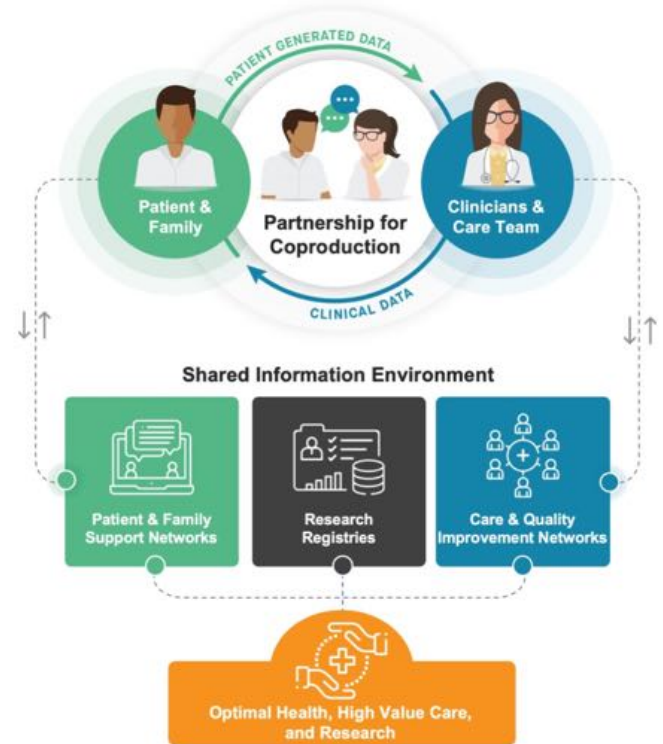
Take Home Points

Patient-centered learning health systems have the capacity to co-produce better health outcomes, higher quality care, and real world health science.

You can tailor the approach to work in your country for the populations of people that you care for.

Answer these questions...

- 1) Which **components of the model** are most important for your population and place?
- 2) Who do you need on **your team**?
- 3) What **data** would you collect from patients and clinicians, and how?
- 4) What will **success** look like?
- 5) What **opportunities / barriers** do you expect?



Share...

- The population and place you worked on
- One or two insights gained from the activity

Real-world Examples

Multiple sclerosis: Lessons in collaborative QI and research

Palliative care: Lessons in patient and clinician co-design

A Research and Improvement Learning Health System (LHS) Collaborative for Multiple Sclerosis (MS)



MS-CQI COLLABORATIVE
IMPROVING MS CARE TOGETHER

The Multiple Sclerosis Continuous Quality Improvement Collaborative (MS-CQI)

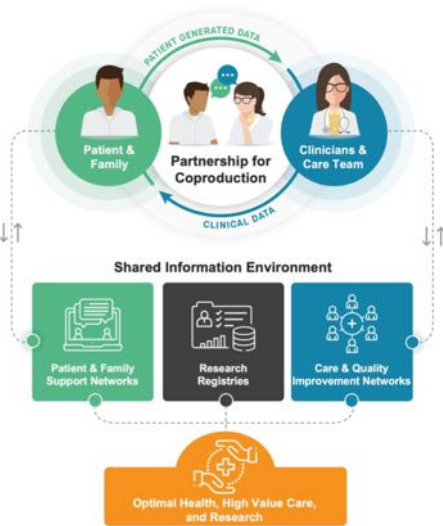
Mission, Progress, Impact, and Implications

Brant J. Oliver, PhD, MS, MPH, APRN-BC
Dartmouth College & Geisel School of Medicine



- MS-CQI is the first improvement science research collaborative for Multiple Sclerosis (MS).
- MS-CQI uses a LHS approach to simultaneously inform clinical care, research, and quality improvement efforts.
- MS-CQI uses clinical and PRO data.

Inspiration for the development of MS-CQI

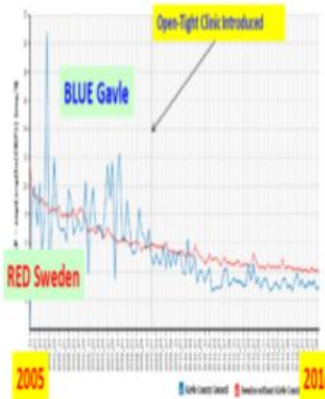


Nelson et al. (2016)

CLHS Potential

- There is **precedent for CLHS improvement** approaches in other complex, costly, chronic disease populations.
- In Sweden, a national-level CLHS initiative using feed-forward PRO data to risk stratify **rheumatoid arthritis** population resulted in improved disease control and improved access to care (Lindblad et al., 2014).
- In the United States, a randomized prospective study of 766 oncology patients demonstrated **improved life expectancy** in patients engaged in care using a PRO-based CLHS approach (Basch et al., 2017).

RA Disease Burden in Sweden Decreasing*



Accelerating the rate of improvement in cystic fibrosis care: contributions and insights of the learning and leadership collaborative

Marjorie M Godfrey, Brant J Oliver*

ABSTRACT

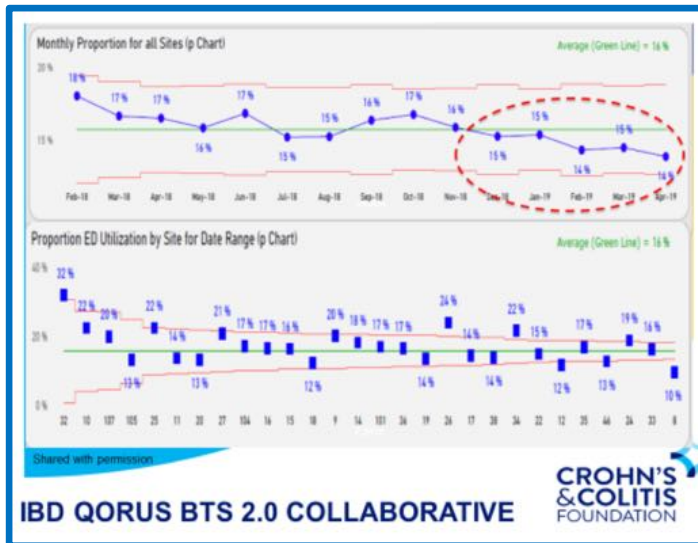
Introduction: The Learning and Leadership Collaborative (LLC) supports cystic fibrosis (CF) centers' responses to the national CF initiative in the USA. Between 2002 and 2013, the Cystic Fibrosis Foundation (CFF) designed, tested and modified the LLC to guide these low wall efforts in these efforts. The report from the implementation and outcomes of 11 sequential CFF supported improvement collaborations that involved over 90% of the US CF care centers during this 10 year period. We include material elements to consider in designing, executing and assessing improvement collaborations.

INTRODUCTION

The Learning and Leadership Collaborative (LLC) supports cystic fibrosis (CF) centers' responses to the national CF initiative in the USA. Between 2002 and 2013, the Cystic Fibrosis Foundation (CFF) designed, tested and modified the LLC to guide these low wall efforts in these efforts. The report from the implementation and outcomes of 11 sequential CFF supported improvement collaborations that involved over 90% of the US CF care centers during this 10 year period. We include material elements to consider in designing, executing and assessing improvement collaborations.

METHODS

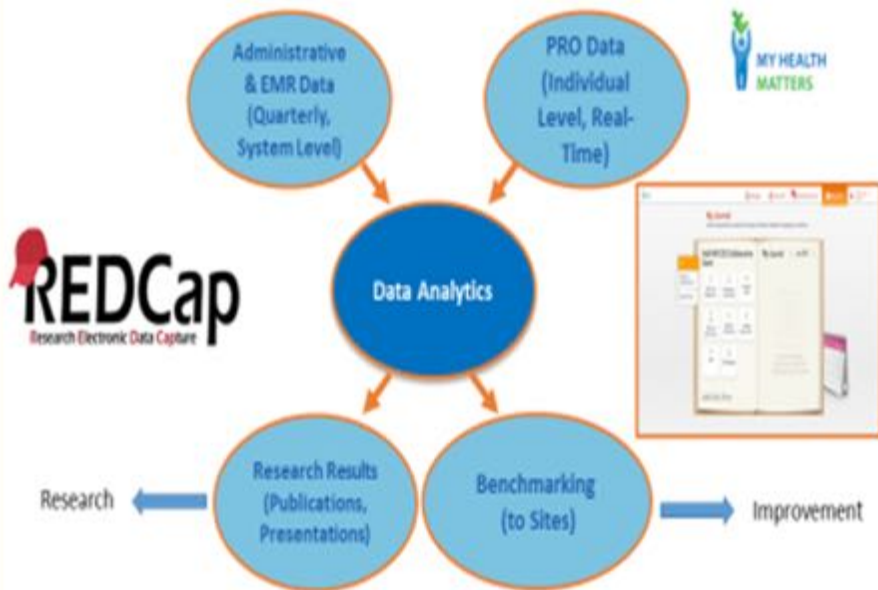
Leading improvement in CF centers at a national level across the USA posed unique challenges. Each CF center had its own local culture, patient population and interprofessional staff, and was influenced by the larger healthcare system in which it existed. It was critical to identify an improvement programme and process that could be adapted to suit the complex CF community broadly and each specific CF center's unique culture of healthcare.



IBD QORUS BTS 2.0 COLLABORATIVE

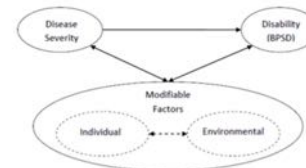
CROHN'S & COLITIS FOUNDATION

Data Pathways



MS-CQI COLLABORATIVE
IMPROVING MS CARE TOGETHER

Beginning of the Journey: WHO Biopsychosocial Conceptual Model of Disability



Domain	Examples of Measures in Category
Clinical Outcomes	<ul style="list-style-type: none"> • Relapse rate by quarter • Percentage on DMT by quarter • % MRI in last year • Patient Determined Disease Steps (PDDS)
Functional Health	<ul style="list-style-type: none"> • Neuro-QoL, WPAI (Work Productivity), PROMIS Fatigue_{MS}, PHQ-9 (depression)
Experience & Satisfaction	<ul style="list-style-type: none"> • CG-CAHPS, BAI, TSQM-9, Qualitative
Cost & Utilization	<ul style="list-style-type: none"> • Healthcare resource utilization (OV, MRI, ED, hospitalization, urgent care)

Feed-Forward & Feedback Data

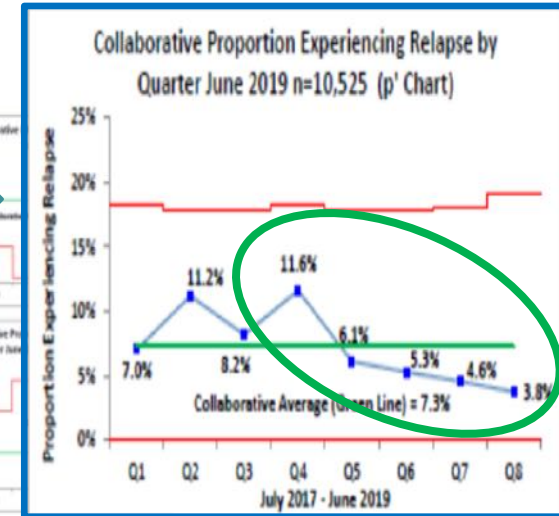
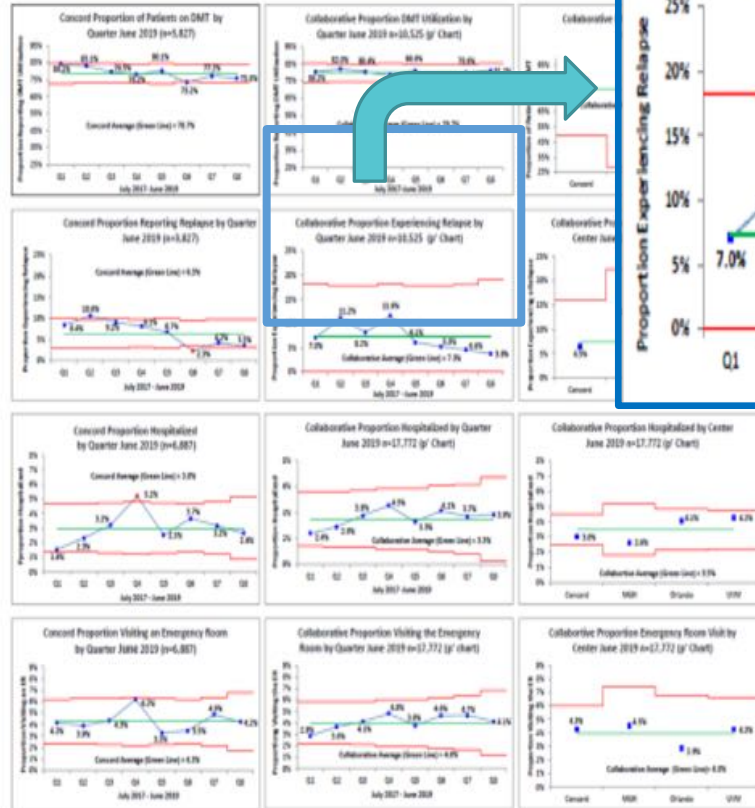
My Journal
Use the sample below to record all the relevant information related to managing your conditions.

Add MS-CQI Collaborative Event

- MS-CQI Collaborative
- Daily Entry
- DMT and Medications
- Outpatient Care Visits
- Hospital Visits
- MS and Allied Health
- Medical Conditions
- Mixed Care of...
- MS
- MS Therapy

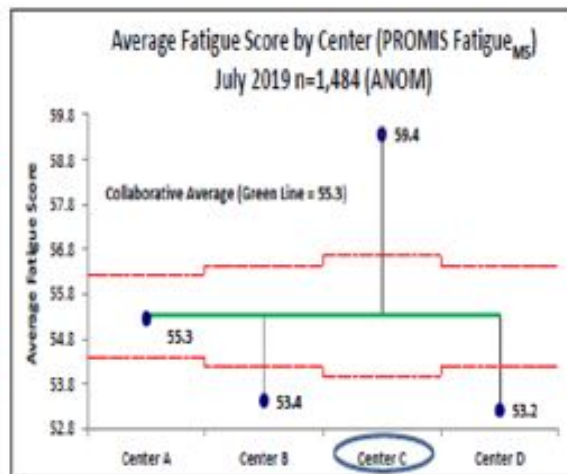
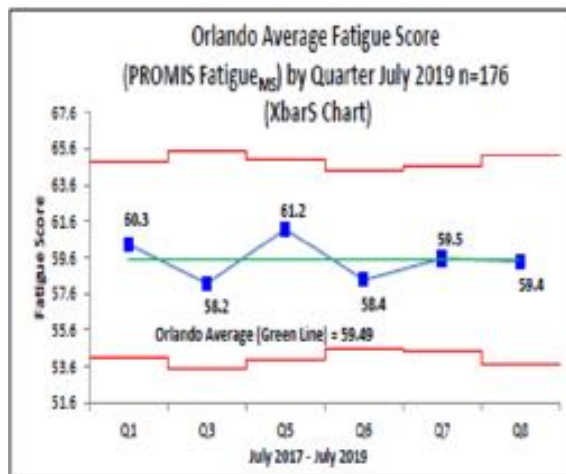
Your Journal is empty. Add an Event or Daily Entry by selecting an icon on the left.

Add Daily Entry



MS-CQI COLLABORATIVE
IMPROVING MS CARE TOGETHER

LHS: Research & Improvement

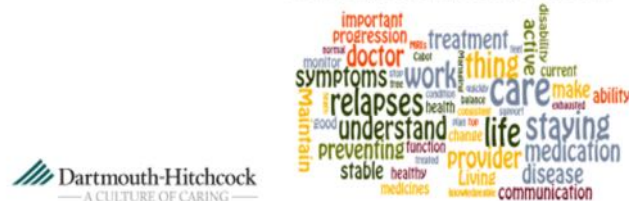


Qualitative PRO Questions (n=222)

What does health and wellness mean to you?



The most important thing about my MS care is....



Dartmouth-Hitchcock
— A CULTURE OF CARING —

Patient Reported Outcome Measure (PROM)	Center A			Center B			Center C			Center D			MS-CQI (Total)		ANOVA Significant	Between Sites Significant	
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean			SD
Patient Determined Disease Steps (PDOS)	57	1.5	1.8	71	1.5	2.2	45	2.3	2.3	57	1.6	1.8	230	1.7	2.0		
Depression Severity (PHQ-9)	47	6.0	3.6	73	5.8	5.1	58	8.2	5.2	66	5.7	4.3	244	6.4	4.8	*	(B-C)/(D-C)
Fatigue Severity (Promis Fatigue-MS)	44	21.4	5.5	72	19.9	7.2	53	24.4	8.1	65	21.2	7.3	234	21.6	7.3	*	*(C-B)/(B-C)
Neuro-Qol Anxiety	66	17.2	6.6	84	17.2	6.2	55	19.2	7.5	66	16.0	5.7	271	17.4	6.5	0.055	*(C-D)/(D-C)
Neuro-Qol Cognitive	65	29.6	7.6	83	31.9	7.1	55	28.9	7.8	66	32.2	6.2	269	30.8	7.3	*	
Neuro-Qol Lower Extremity Function	59	35.1	6.0	70	34.8	7.7	46	33.2	7.8	57	34.9	7.3	232	34.6	7.2		

Trajectory

Shared decision-making
for disease management

MyHealth Matters
patient-reported
outcome data

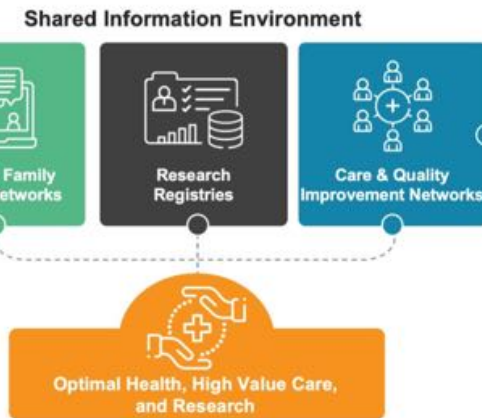
EHR and MyHealth
Matters patient-
reported outcome data

MyHealth Matters Online
Platform:
Self-management, health
coaching, mobile technology

Innovation scholar
teams: Clinicians,
consumers, innovators,
researchers.

Integrated community
partnerships: MSF peer
wellness outreach program

Step-wedge randomized
improvement interventions



MS-CQI COLLABORATIVE
IMPROVING MS CARE TOGETHER

Real-world Examples



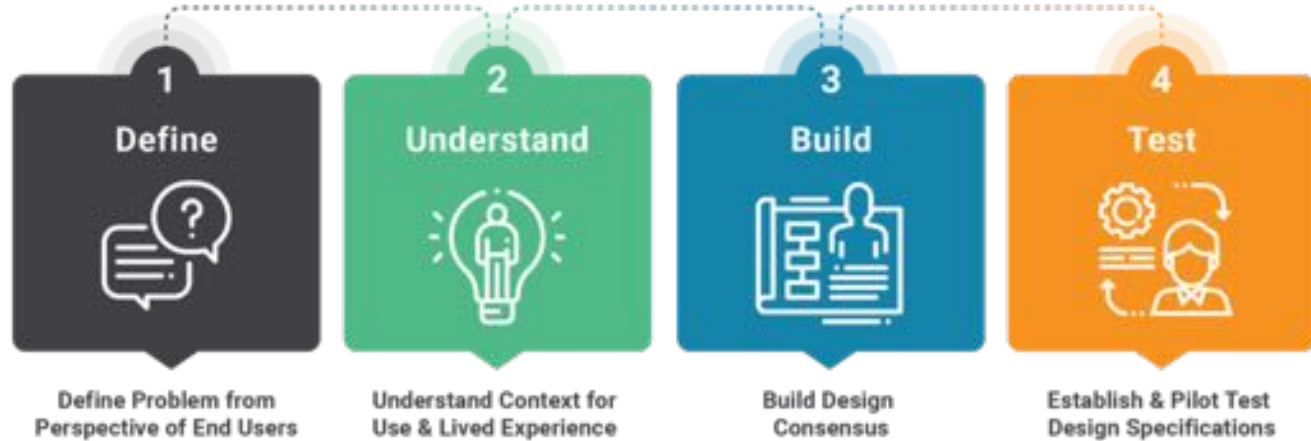
Multiple sclerosis: Lessons in peer-to-peer learning

Palliative care: Lessons in patient and clinician co-design

Patient & Clinician Co-design Process

Co-design team

- ❖ Patients
- ❖ Family members
- ❖ Community members
- ❖ Clinicians
- ❖ Researchers



Constraint: Development of a dashboard driven by funding source.



Define problem from perspective of end users



Robert Pope, "Family Waiting", Courtesy of the Robert Pope Foundation

A Person-Centered, Registry-Based Learning Health System for Palliative Care: A Path to Coproducing Better Outcomes, Experience, Value, and Science

Arif H. Kamal, MD, MBA, MHS,¹ Kathryn B. Kirkland, MD,² Diane E. Meier, MD,³ Tamara S. Morgan, MA,⁴ Eugene C. Nelson, DSc, MPH,⁵ and Steven Z. Pantilat, MD⁶



AMERICAN ACADEMY OF
HOSPICE AND PALLIATIVE MEDICINE



PCQN

PALLIATIVE CARE
QUALITY NETWORK



Global PALLIATIVE CARE Quality
ALLIANCE
Improving quality through collaboration

Center to
Advance
Palliative Care™
capc



Dr. Kathy Kirkland, DHMC Section Chief of Palliative Care



Define problem from perspective of end users



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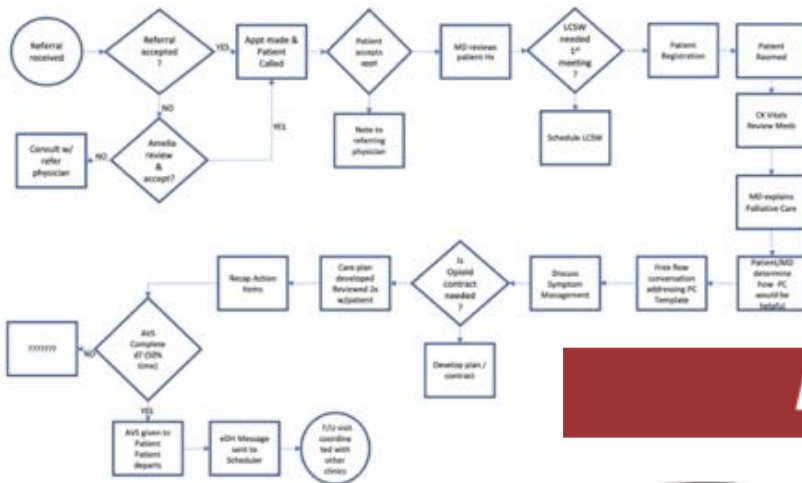
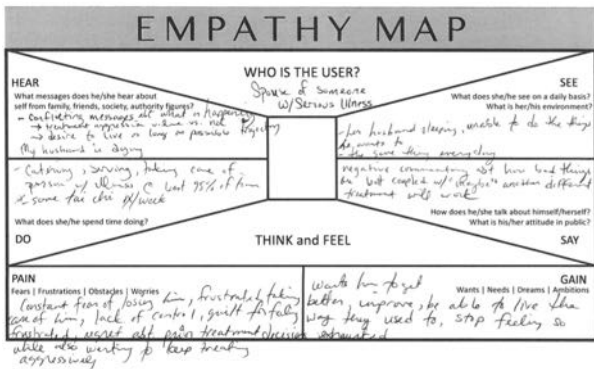


Problem: Ineffective communication between patients, families, and clinicians leads to healthcare services that do not meet the individual needs and goals of people living with a serious illness

Tips: Do background research & clarify the problem you are trying to solve.



Context of Use & Lived Experience

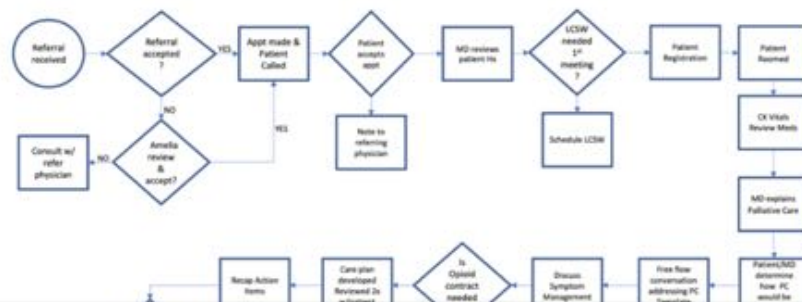
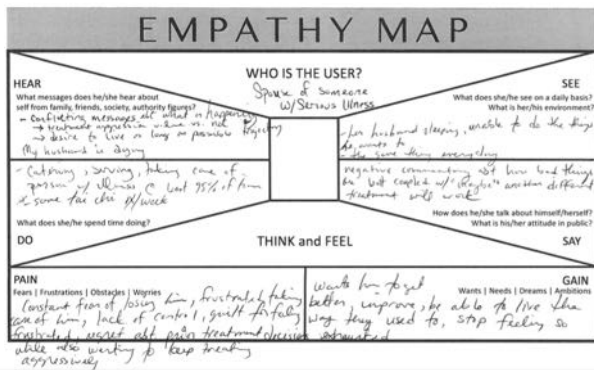


PC Outpatient Clinic Flow - New Patient (draft)





Context of Use & Lived Experience



Clinicians use the EHR to review and store data on patients.

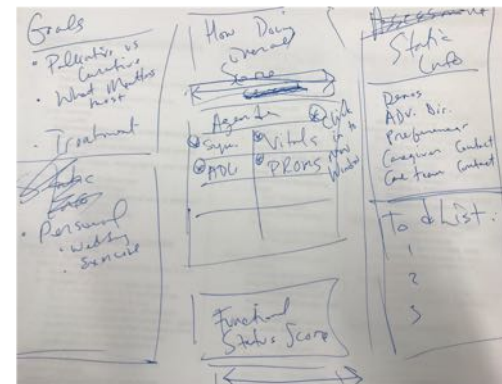
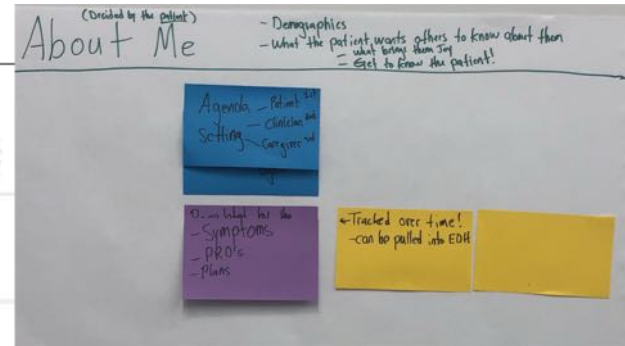
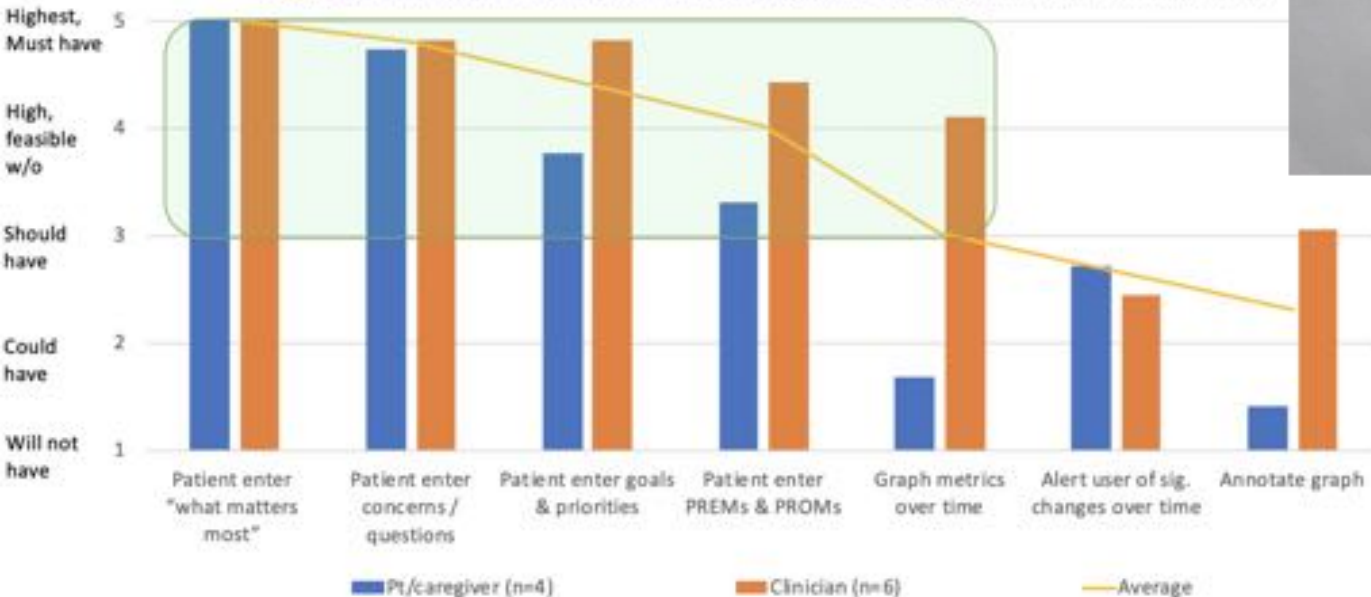
70% of people receiving outpatient palliative care have a patient portal account, but few use it with palliative care.

Tips: Understand community strengths and opportunities, map care flow, prioritize needs



Build Design Consensus

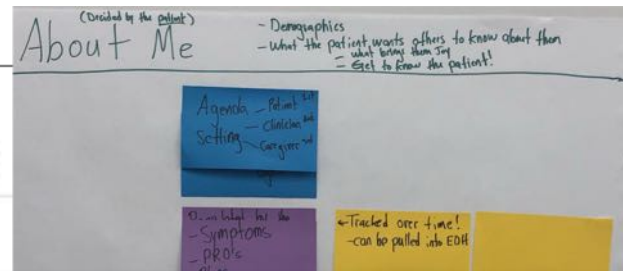
Describe and share well-being, course of serious illness, and what matters most





Build Design Consensus

Describe and share well-being, course of serious illness, and what matters most



- ❖ Support communication in each visit around what matters most
- ❖ Improve quality & efficiency of care by capturing, sharing, and displaying data collected before and during a clinical visit.
- ❖ Used by patients & clinicians when they are together
- ❖ Data collection built into regular flow of work and daily activities, and will feed a registry

Tips: Identify function and form, identify and consider state of the art, prototype



Establish & Pilot Test Design Specifications



Tony Swanson
48 years
Thetford, VT
Pancreatic cancer



Care partner & Supports:
Julie Swanson Wife
[More...](#)



Clinical team:
Matt Wilson Palliative care
[More...](#)

Planning Ahead:

- Advance directive
- Serious illness conversation: [Update: 6/25/19](#)
- Orders for Life Sustaining Treatment

What Matters Most to You?



Be outside and active
Support my family



Maintain a sense of control in our life

Concerns to Discuss



Symptoms: Weight loss, energy
Results: Hemoglobin and kidney levels



Well-being: Manage family stress



Symptoms: Pain assessment
Medications

Needs for help since last visit: **3**

> Test Results

> Assessments

> Medications

> To Do List

Task		Responsible	Date added
<input type="checkbox"/> Start anti-diarrheal medication (Imodium, 100 mg, every 12 hours)		Tony	6/25/19
<input type="checkbox"/> Meet lawyer to finalize will		Tony & Julie	6/25/19
<input type="checkbox"/> Complete disability paperwork		Matt Wilson	6/25/19
Show more			

> Next Visits



Establish & Pilot Test Design Specifications

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Test Results

Assessments

Medications

To Do List

Task	Responsible	Date added
------	-------------	------------

Build dashboard functions into the EHR and patient portal.
Test whether dashboard addresses the problem statement.

Tips: Plan and conduct small-scale tests, measure the process and impact

Tips for Getting Started

- Leadership team:** Meet regularly with small dedicated team
- Metrics of success:** Identify desired outcomes
- Co-design team:** Meet regularly with a team of patients, families, community members, clinicians, and researchers
- Human-centered design:** Develop and prioritize functions (what it does), form (how it looks), and workflows (how to do it) to support new tools
- Technology partners:** Work in real-time to develop and test tools
- Formative evaluation:** Understand feasibility, utility, and value
- Integrate IT systems:** Feed data forward for better health, care, and research

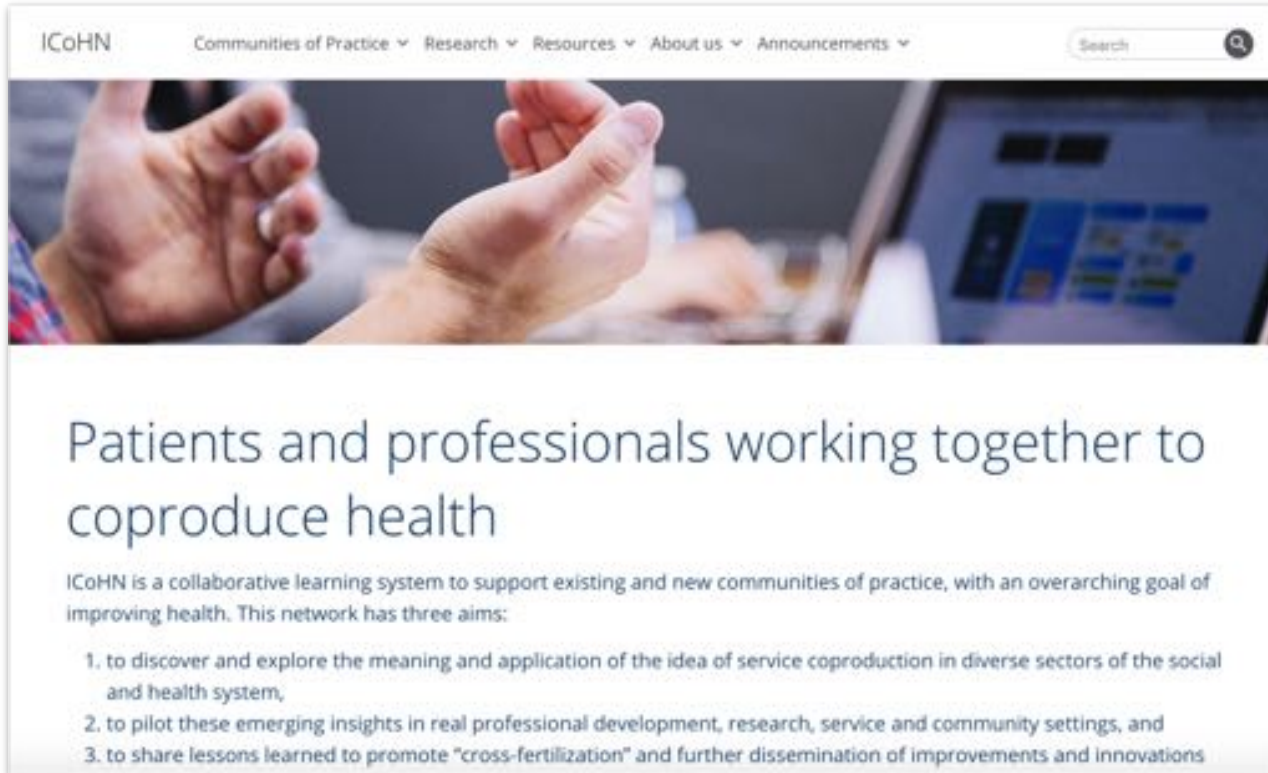


Task:

- Take 2 minutes to write down your own questions
- Discuss at your table
- Be prepared to ask 1 question from your table

The International Coproduction of Health Network (ICoHN)


A collaborative learning system to support existing and new Communities of Practice with an overarching goal of improving health.

A screenshot of the ICoHN website homepage. The header includes the ICoHN logo, navigation menus for 'Communities of Practice', 'Research', 'Resources', 'About us', and 'Announcements', and a search bar. Below the header is a large image showing two hands gesturing in front of a laptop screen. The main content area features the headline 'Patients and professionals working together to coproduce health', a paragraph describing ICoHN as a collaborative learning system, and a list of three aims.

ICoHN

Communities of Practice ▾ Research ▾ Resources ▾ About us ▾ Announcements ▾

Search



Patients and professionals working together to coproduce health

ICoHN is a collaborative learning system to support existing and new communities of practice, with an overarching goal of improving health. This network has three aims:

1. to discover and explore the meaning and application of the idea of service coproduction in diverse sectors of the social and health system,
2. to pilot these emerging insights in real professional development, research, service and community settings, and
3. to share lessons learned to promote "cross-fertilization" and further dissemination of improvements and innovations

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Patient and professionals working together
coproduction health

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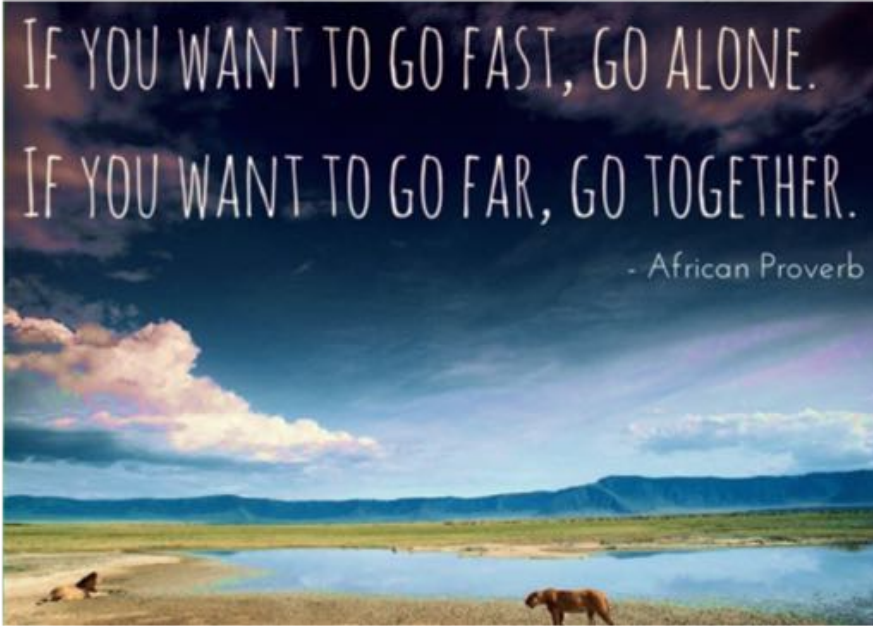
Communities of Practice (CoPs)

- Defined by Étienne Wenger as a group of people who share a common interest and learn together as they do their work in various contexts.
- Key elements include the domain of interest, the community members, and the practice they engage in.

Wenger E. (1999). *Communities of Practice: Learning, Meaning, and Identity (Learning in Doing: Social, Cognitive, and Computational Perspectives)*. Cambridge University Press, Cambridge, UK. ISBN-13: 978-0521663632.

ICoHN Communities of Practice (CoPs)

- Health System Leaders
- Coproduction Researchers
- Health Professions Educators
- Value Creating Business Model
- Coproduction Learning Health Systems
- ICoHN Coproduction Commons



Find more information

<https://sites.dartmouth.edu/coproduction/>

Tips for getting started

Learn more about the model

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TDICoproductionTeam@gmail.com

