Networked Healthcare Communities

Carole Lannon, MD, MPH

James M. Anderson Center for Health Systems Excellence
Cincinnati Children's Hospital Medical Center

Senior Quality Advisor
American Board of Pediatrics

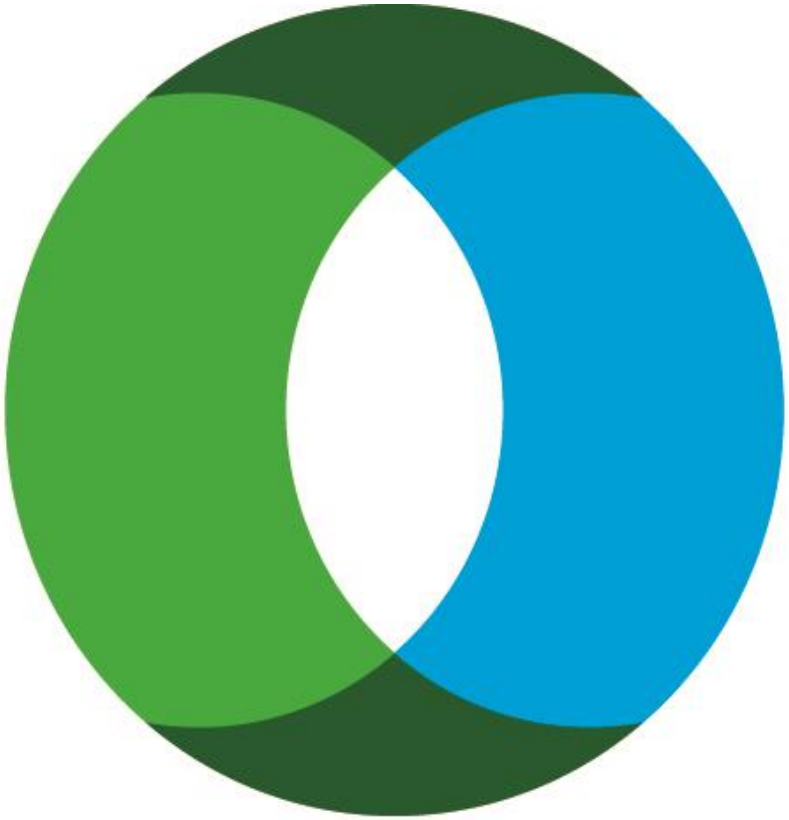
rkkp

regionernes kliniske kvalitetsudviklingsprogram

- Denmark
  - Recognized for its registries and exemplar research
  - Doing terrific work laying foundation for networked health communities using patient registries for improvement
- Cincinnati Children's
  - Honored and humbled to share our journey

What is a Learning Network?

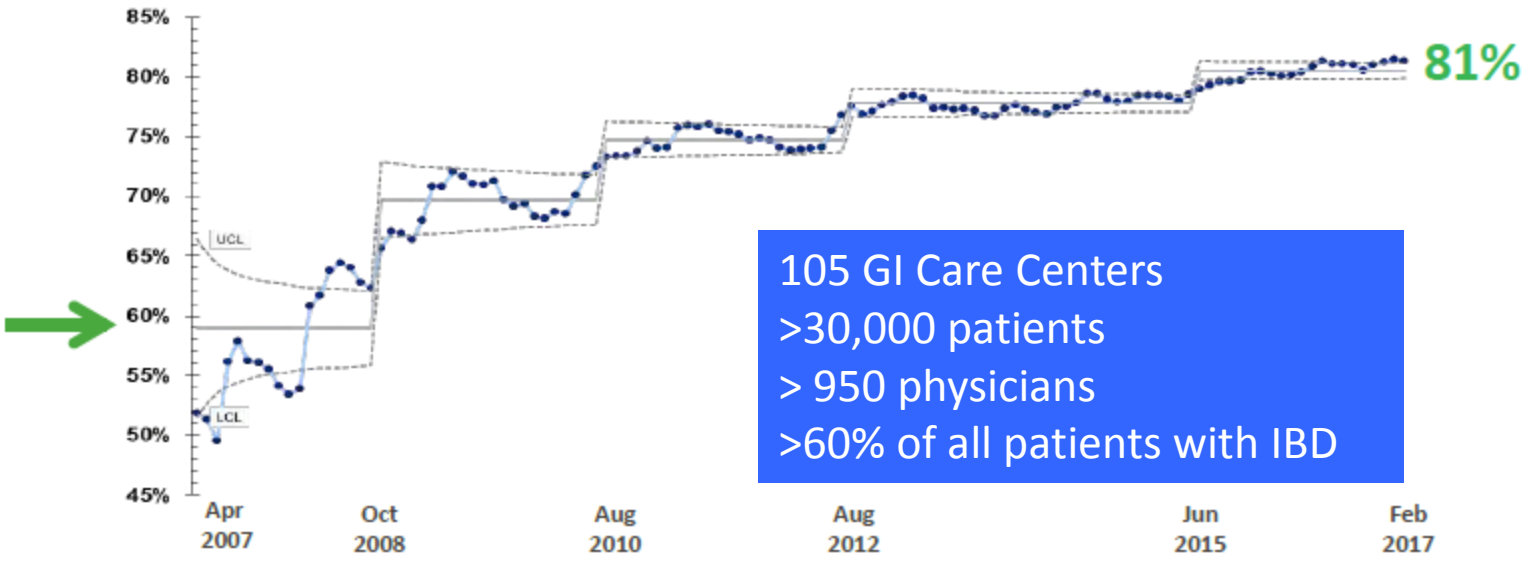
Community of patients, families, clinicians, and scientists across multiple sites who use data for clinical care, improvement, discovery (research), and innovation



IMPROVE**CARE**NOW

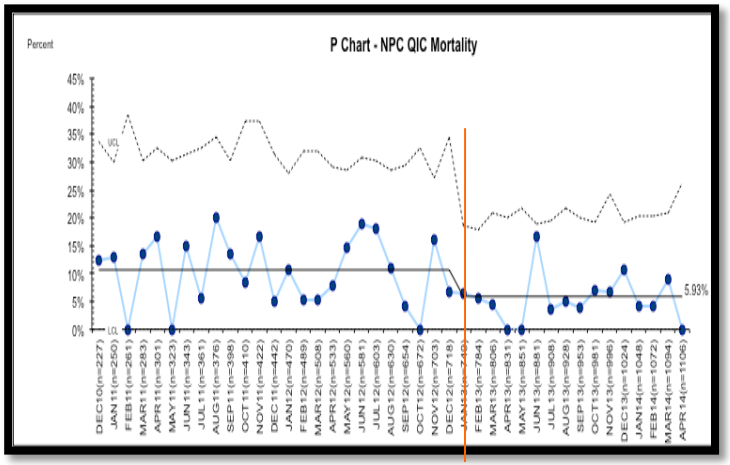
Clinical remission rate in CD and UC

PGA = Inactive (Physician Global Assessment)

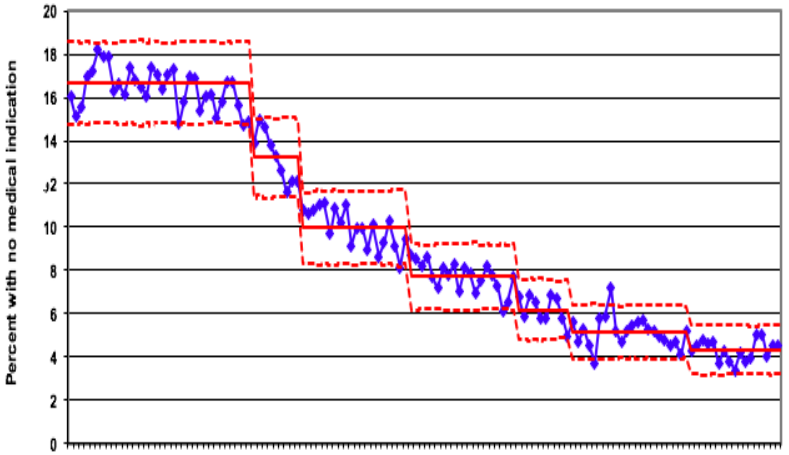


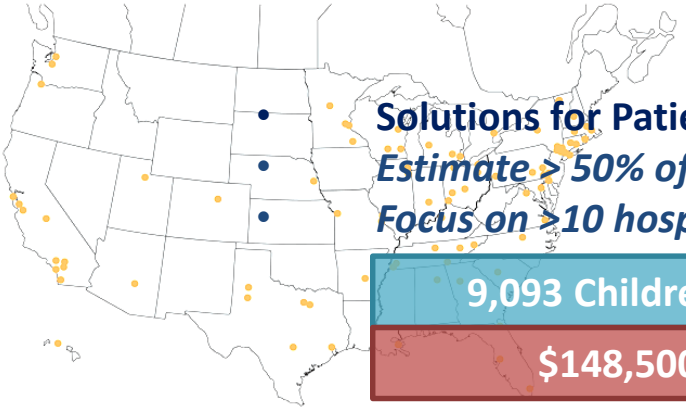
REPLICATION OF THE MODEL

65 pediatric cardiology centers
40% decrease in congenital heart disease interstage mortality



108 maternity hospitals in Ohio
75% decrease in early elective deliveries since 2008, >67,000 births shifted to term





Solutions for Patient Safety: 100+ Childrens Hospitals

Estimate > 50% of all children hospitalized in US

Focus on >10 hospital acquired conditions

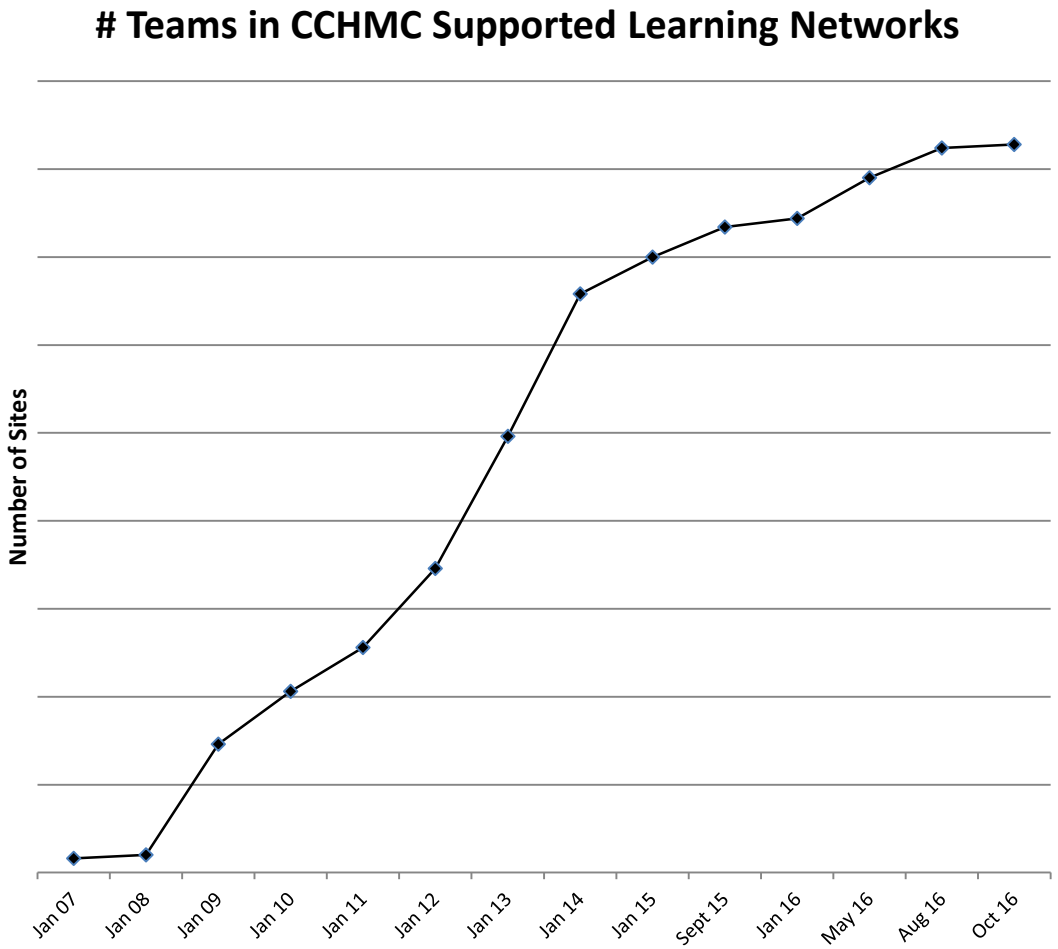
9,093 Children Spared Harm

$148,500,000 Saved

Growth of Learning Networks

558 teams at 286 sites

43 states and 5 countries (the US, UK, Canada, Belgium and Qatar)



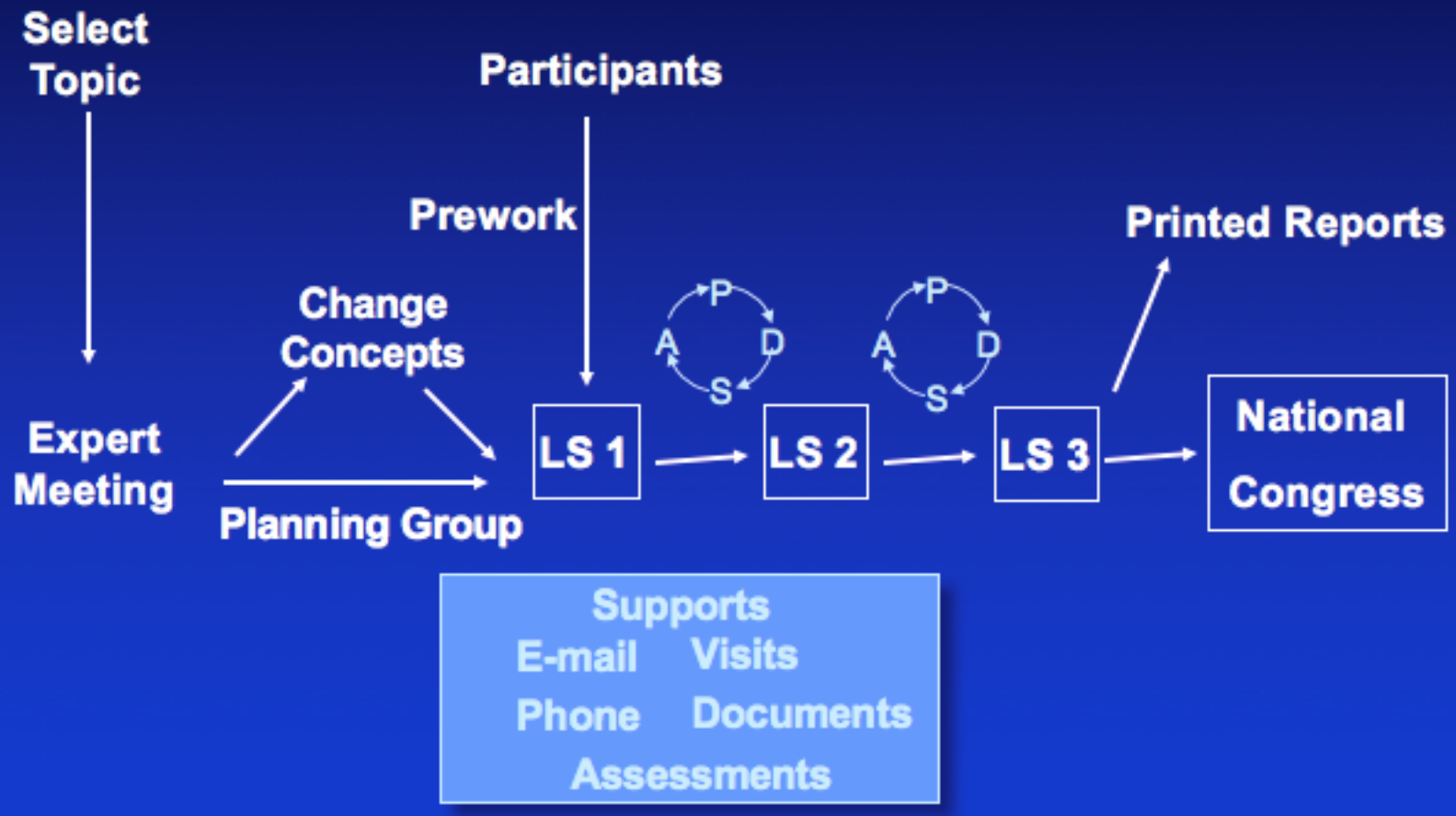
We began as clinician-led collaboratives with a focus on improvement and translating research into practice.

2003:
American Board of Pediatrics:
Development and Promotion of
Collaborative Network Model

Initial focus

- Data
- QI methods
  - Shared goals
  - Regular performance feedback (e.g. monthly)
  - Testing changes to standardize care
- Methods to facilitate collaboration and sharing of knowledge : “All teach, all learn”
  - (face-to-face team meetings, monthly webinars, listserv, visits)

The Breakthrough Series



Researcher

Mom

Clinicians

“My belly hurts”

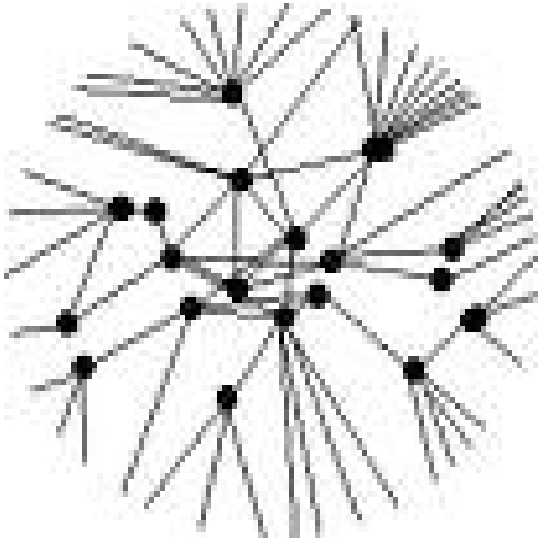
To improve care and outcomes, we need to connect patients & families, clinicians and researchers

The Network Journey

- Clinician-focused → All participants
- Time-bounded → Enduring Networks
- QI → QI + Research

- Now, research that makes a difference
  - Linking biomarkers to patient remission
  - Shared decision-making
  - Identifying effective clinical bundles
  - Comparative effectiveness studies
  - Patient reported outcomes
  - Social network analyses
  - Dissemination and implementation studies

Design Principles



1. Focus on outcome
2. Build community
3. Use technology effectively
4. Develop and continuously improve the system

Design begins with patients, families, clinicians, and researchers

Networks

WIKIPEDIA

The Free Encyclopedia

Creating a culture of generosity and contribution

+

the ostomy toolkit

An Educator

Learning Network Components

- Systems of Leadership
  - Including leadership team: Faculty/Content Lead, Improvement/Collaborative Science Lead, Patient/Family(s))
- Network Coordinating Center
  - Governance & Management
- Quality Improvement support & capability
- Research/science support
- Data & Analytics / Data Coordinating Center
  - Data collection/management/registry, and analytics
- Community
  - Improvement Teams at network sites / centers, including patients and families

What we've learned

- Go faster and further when we partner with patients and families
- Building participation by everyone develops more capacity
- Relentless focus on outcomes drives progress
- Structures and processes make it easier to collaborate
- Always an evolving balance among improvement, research, and innovation