ACTS COVID-19 Evidence to Guidance to Action Collaborative: Approach and Results

Jerome A. Osheroff, MD, FACP, FACMI

Principal, TMIT Consulting LLC

Chair ACTS COVID Collaborative and ACTS Project Lead

November 2, 2021

Disclosure

Principal, TMIT Consulting LLC; no conflicts of interest in this presentation

ACTS Roadmap Aimed to Produce Effective Learning Health System (LHS) Cycles

COVID-19 Highlighted Problems

- ACTS Roadmap WG refocused 'pilot proposal development' on collaboratively addressing the pandemic

- AHRQ funded the ACTS COVID Collaborative

ACTS COVID-19 Collaborative

Integrate ACTS-related efforts and drive progress toward the following goals:

Near-Term Pandemic Response:

- **Cross-fertilize/accelerate efforts** to develop and deliver (e.g., via CDS) the latest COVID-19 evidence-based guidance to care teams

- **Improve care/outcomes** for COVID-19 for *limited* settings / targets using tools and approaches that can be *broadly scaled*

Longer-term:

- **Advance tools, standards, and collaborations** that *seed knowledge ecosystem*, reference architecture, and partnerships called for in the ACTS Draft Roadmap

Future Vision: Digital Knowledge Ecosystem to Foster LHSs and Realize Quintuple Aim
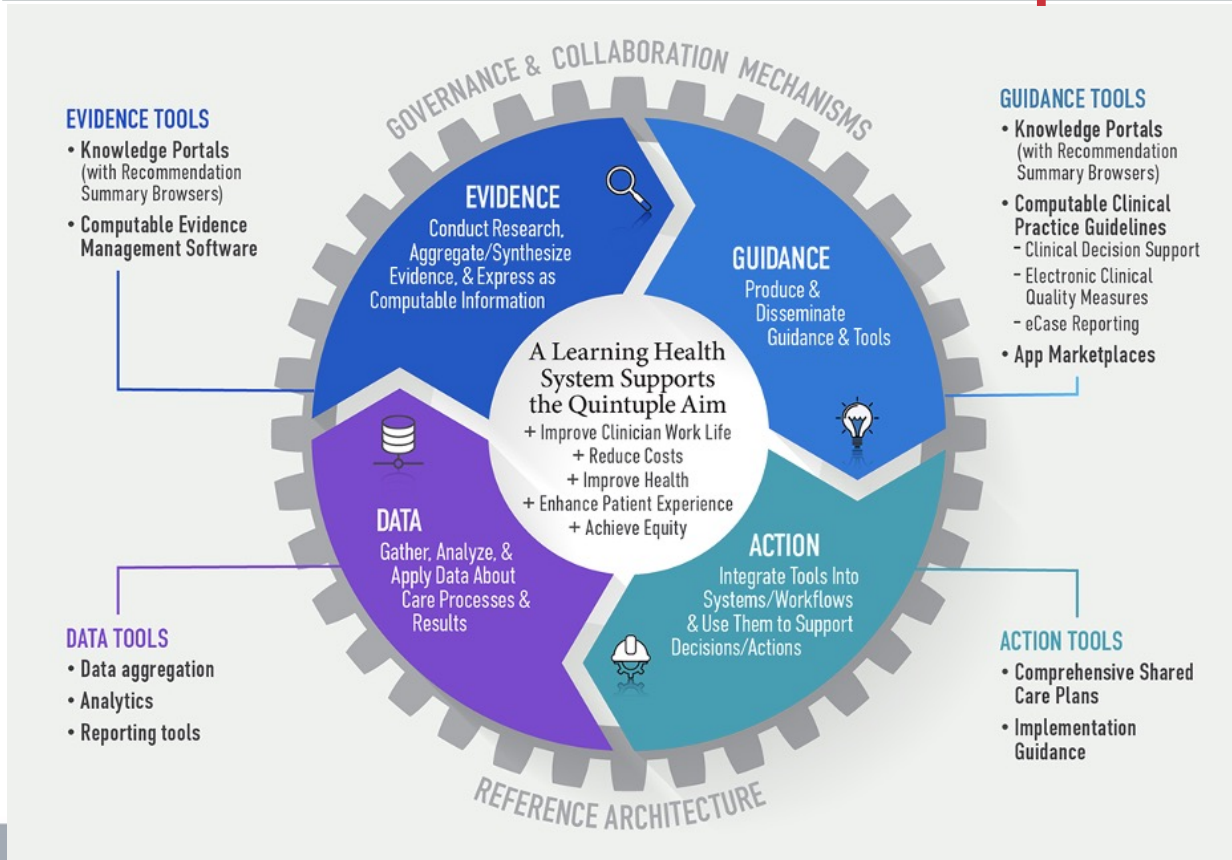
Collaborative used COVID-19 as a use case to accelerate progress to vision

- Connect efforts

- Speed development

- Fill gaps

Since March '20, Collaborative Participants Have:

- **Shared** COVID LHS strategies, tools, challenges; **mutual support**

- **Worked on Optimizing** the current state of pandemic response, focusing on specific targets such as COVID anticoagulation, triage

- **Explored scaling successes** to other targets / CDOs

- **Produced an "Art of the Possible LHS Concept Demonstration"**

  - Future vision for care delivery and transformation (shared care plans)

  - Knowledge ecosystem needed to achieve vision, including tool mockups

  - Case study of LHS in action: Univ. MN COVID anticoagulation efforts

  - Stakeholder-driven Phase 1 LHS Plan

ACTS Concept Demonstration Goals

Show care delivery future vision supported by an effective learning health system (LHS) cycle that realizes the quintuple aim and addresses urgent healthcare needs

Highlight elements of future vision already in place (e.g., tools, standards, collaborations, etc.), where the gaps are, and recommended next steps

Encourage stakeholders to leverage concept demonstration materials (e.g., patient journey and service blueprint templates) to advance their care transformation and LHS efforts

Expand Collaboration on high priority improvement imperatives (related to specific acute and chronic diseases and prevention targets) to focus near-term ecosystem development

Foster commitments from key public and private organizations to continue funding and coordination to drive these next steps

Increase stakeholder engagement to accelerate progress toward achieving the future vision (41 ACTS support letters already received)

LHS Phase 1 Plan

- 3-year **Stakeholder-driven action plan** for *building on Concept Demo* to drive progress toward shared LHS future vision for *several high priority clinical targets*

  - "Phase 1" of 10-year ACTS Roadmap

- Demonstrate digital knowledge ecosystem where **information flows seamlessly around LHS cycle** to *improve care processes / outcomes* for selected targets

Initial Targets Being Explored for Cross-fertilization:
- Long COVID, COVID Anticoagulation
- Preventive Care (lung cancer screening)
- Pain Management / Opioid Use
- Blood Pressure Control
- Sepsis
- others

Stakeholder Engagement Towards Future Vision

Forty-one organizations provided support letters indicating plans to collaborate and align efforts / investments to achieve the Future Vision

Federal Agencies: 1
VHA (Nebeker)

Care Delivery Organizations: 8
VCU/ACORN (Krist)
UM Health Fairview (Melton-Meaux/Tignanelli)
U Chicago Medicine (Umscheid),
Rutgers RWJBarnabas Health (Sonnenberg)
MUSC (Lenert)
Hennepin Healthcare (Pandita)
AACHC-CVN (Frick)
VUMC (Johnson)

Professional Societies/Accrediting Bodies/Institutes: 7
American Medical Association (Rakotz)
AMIA (Dykes)
ACMQ (Casey)
ACCME (Singer)
NCQA (Barr)
RTI (Richardson)
ACP (Qaseem)

Health IT Vendors/Initiatives: 11
Epic (Little)
Cognitive Medical Systems (Burke/Bormel)
Health Catalyst (Rimmasch)
Apervita (Middleton)
U Mich/MCBK (Friedman/Richesson/Flynn)
Logica Health (Hu
EBM on FHIR/COKA/Computable
Publishing (Alper)
BPM+ Health (Rubin)
HL7 (Jaffe)
PICOPortal (Agai)
ZeaMed (Bondugula)

Patient Advocates: 4
Hassanah Consulting (Tufte)
Rosie Bartel (Bartel)
Society for Participatory Medicine (Hennings)
Maureen Smith (Smith)

Clinical Evidence/Guidance Organizations: 10
Cochrane (Soares-Weiser)
COVID-END (Grimshaw)
GIN (Harrow)
JBI (Jordan)
Epistemonikos (Rada)
MAGIC Evidence Ecosystem Foundation (Vandvik/Brandt)
McMaster University (Iorio)
University of MN EPC, School of Public Health, Division of Health Policy and Management (Butler/Beebe)
Brown University EPC – SRDR (Saldanha)
Penn Medicine Center for Evidence-based Practice (Mull)

14+ Already Collaborating on *Stakeholder-driven Phase 1 Plan Execution* specifics

For A Deeper Dive on the ACTS LHS Concept Demo and Phase 1 Plan / Execution…

LB11 Late Breaking Panel (11/3/21, Sapphire EI)

- "Art of the Possible" Patient Journeys for COVID-19 and Beyond; Current and Future Steps to Fully Realize this Vision

Check out the *draft* concept demo website (being migrated to .gov site)

- https://covid-acts.ahrq.gov/display/PUB/ACTS+LHS+Concept+Demonstration

Reach out!

- josheroff@tmitconsulting.com