



THE ECOSYSTEM OF EVIDENCE

Lessons learned in the pandemic
era and future challenges

10th International Conference for EBHC Teachers and Developers
10th Conference of the International Society for EBHC
Taormina, 25th - 28th October 2023

#EBHC2023



Creating Infrastructure to Support a Learning Health System with Rapid, High-Quality Evidence

*UMN Center for Learning Health System Sciences:
a collaboration between the University of Minnesota
Medical School and the School of Public Health*

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Evidence Practice Center
University of Minnesota Medical School &
School of Public Health



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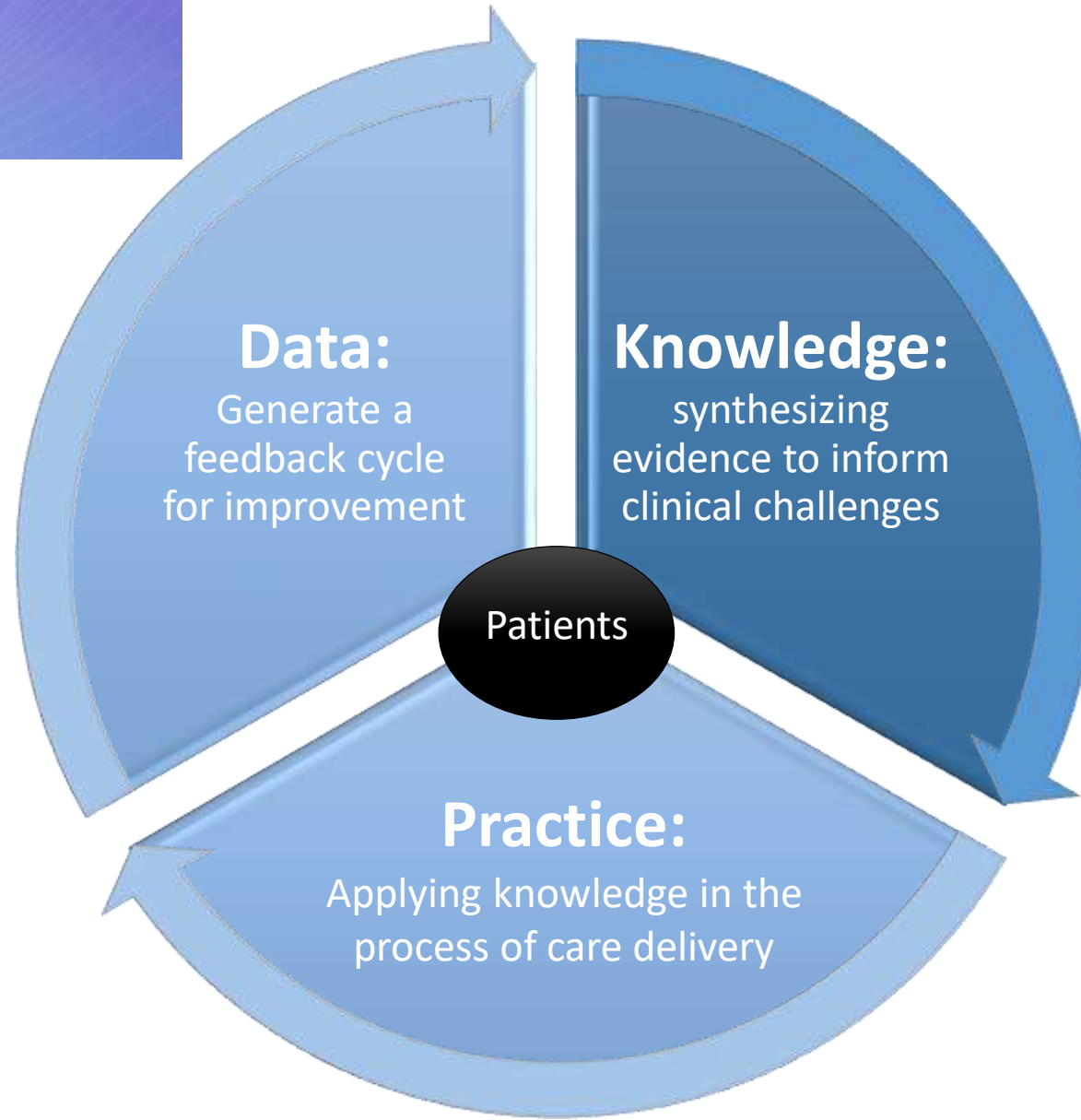
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Nothing to Disclose

Background

University of Minnesota Center for Learning Health System Sciences



Aims to speed up the translation of evidence to practice



Background

ESU: A Collaborative

Created to address
quality evidence to
guidelines

Combines experie

- [M Health Fair](#)
- [COVID-19 EM](#)
- [Minnesota EP](#)
Center)

– one of 9 AHRC
centers, funde

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COVID-19: Evidence Based Medicine

Home **Therapy Reviews** Vaccine Reviews Guidelines About Us

Therapy Reviews

Evidence-based reviews summarizing the clinical data and rationale for several potential therapies for COVID-19 are summarized below by topic.

Contact us at covidebm@umn.edu with recommendations for new reviews, questions regarding existing reviews and more.

- Colchicine** >
Last review completed on: *June 22nd, 2020*
- Convalescent Plasma** >
Last review completed on: *February 12th, 2021*
- Corticosteroids** >
Last review completed on: *January 24th, 2022*
- Famotidine** >
Last review completed on: *November 17th, 2020*
- Fluvoxamine** >
Last review completed on: *October 15th, 2021*
- Hydroxychloroquine** >
Last review completed on: *June 5th, 2020*
- Interferon Beta** >
Last review completed on: *December 13th, 2020*
- Intravenous Immunoglobulin Therapy** >
Last review completed on: *June 7th, 2020*
- Ivermectin** >
Last review completed on: *August 11th, 2021*
- JAK Inhibitors** >

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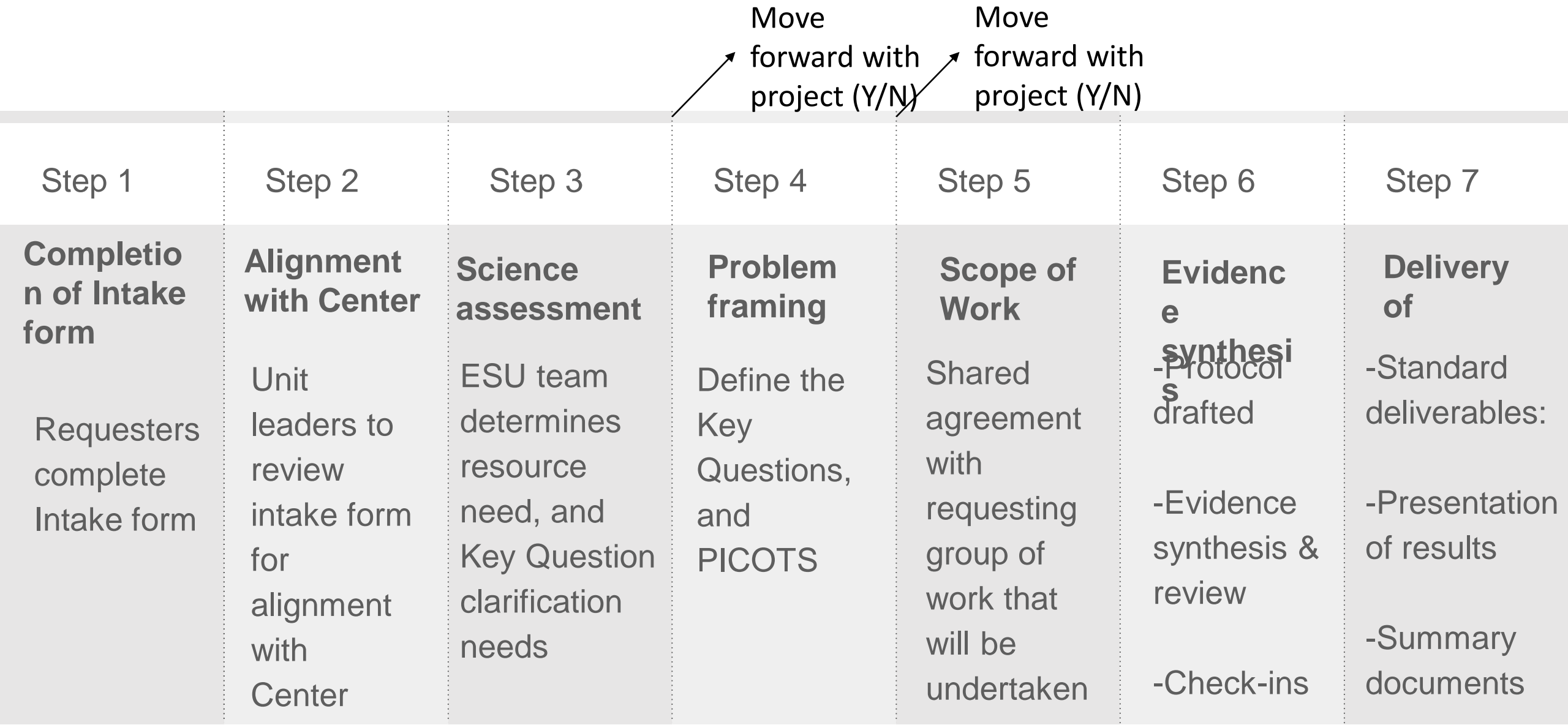
Aims

- *Provide rapid, high-quality evidence summaries to inform clinical practice and guidelines*
 - Aggregate information to resolve conflicts between guidelines
 - Synthesize evidence surrounding emerging, or time-sensitive topics
- Collaborate & support other units within the CLHSS
- Partner with M Health Fairview Health System to integrate evidence synthesis into guideline development
- Enable clinicians & researchers to navigate evidence



Methods

CLHSS - Evidence Synthesis Project Flowchart



Results

8 rapid evidence reviews for the health system:
surgery, pharmacy primary care, public health,
quality improvement

2 Agency for Health Care Research and Quality
Systematic Review Contracts

1 FDA U01 grant award for development of a
clinical practice guideline to treat pain after
abdominal surgery

Education & Mentorship Evidence Based Medicine Champion Program and ESU 101 Course:

A leadership program for clinician
researchers with evidence synthesis
needs

Aims:

1. impart basic evidence synthesis concepts and skills
2. Lead interested parties through steps of a systematic review



Limits

Stakeholder Identification and Engagement → Clinical Integration Lead: bridge the gap between practice needs and ESU processes

Evidence gaps identified →

- Partnerships with CLHSS Rapid Eval Unit, Program for Clinical AI
 - Expectation setting intake process

Financial Sustainability Model →

- Grants & contracts
- Potential fee for service model



Conclusions

Evidence to practice changes are accelerated by:

- *Healthcare system and community integration*
- *Systematic approach to formulating pragmatic key questions and analytic framework*
- *A Learning Health System approach to continual improvement*

LEARNING WITH EVERY PATIENT | SO WE CAN TAKE BETTER CARE OF THE NEXT



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