



Pilot Project: Online Midwifery Education Aimed at Maternal Health Staff in Trifinio, Guatemala

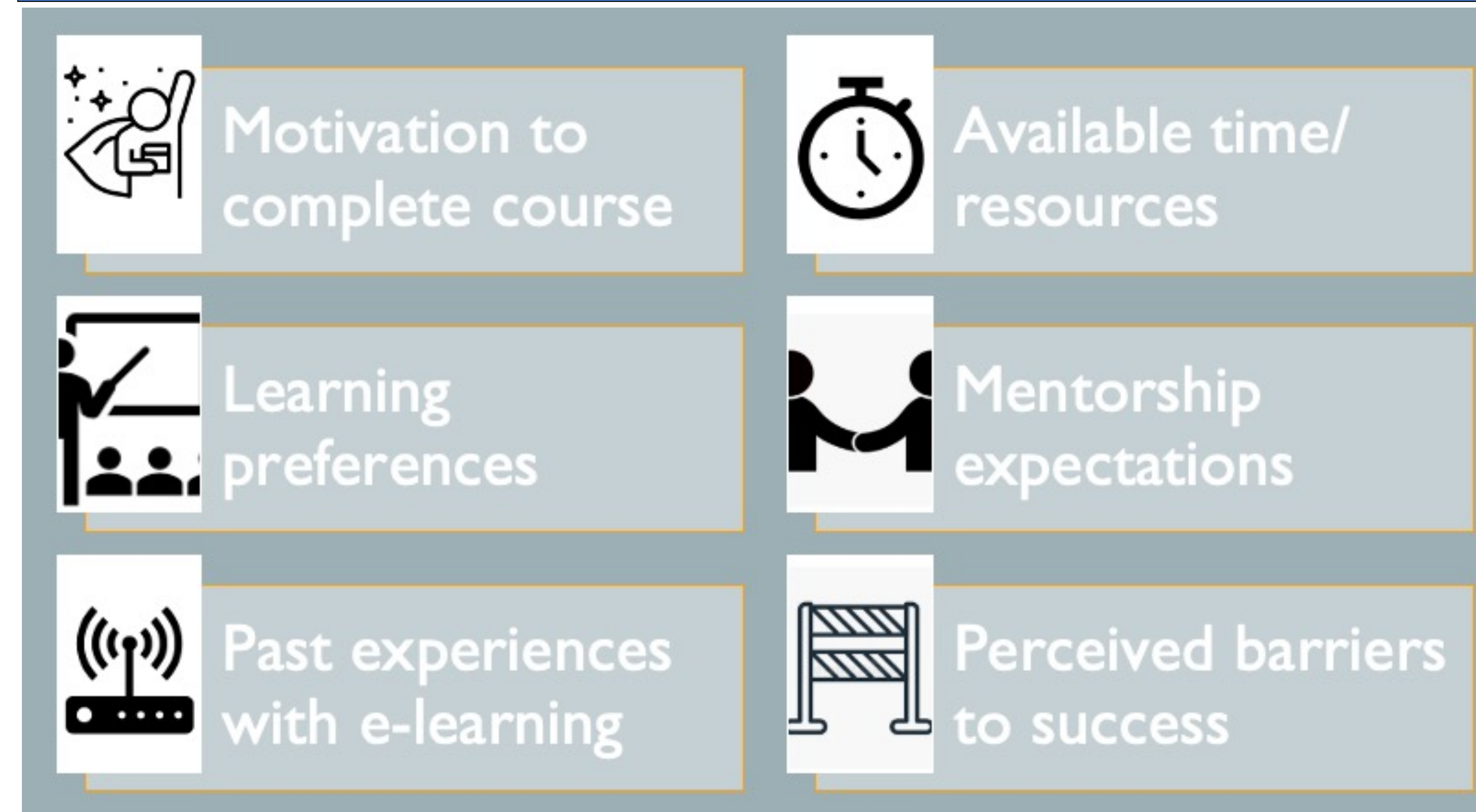
Laura Maurer, MD(c)¹; Amy Nacht, DNP, CNM, MPH, FACNM²; Lauren Norheim, PA-C³; Emily Himes⁴; Emily Barrington⁵; Claudia Rivera⁶; Margo Harrison²

1. University of Colorado School of Medicine, Anschutz Medical Campus, Aurora, CO
2. University of Colorado School of Medicine Department of Obstetrics and Gynecology, Aurora, CO
3. University of Colorado Physician Assistant Program, Aurora, CO
4. University of Colorado School of Public Health, Aurora, CO
5. University of Colorado Denver, Denver, CO
6. Fundación Integral por la Salud de los Guatemaltecos Center for Human Development, Trifinio, Guatemala

BACKGROUND

- Guatemala has one of the highest maternal mortality ratios in the world with women in rural areas, such as the El Trifinio region, being disproportionately affected by preventable maternal deaths.²
- Although a birthing center was opened in Trifinio in 2016 as an extension of the established clinic known as the Trifinio Center for Human Development, the lack of appropriately trained staff at the facility is a major barrier to its use and utilization by women in the local community.³
- In order to enhance clinical training, the University of Colorado's maternal health team plans to create an online, self-paced midwifery training program with remote mentorship for community nurses in Trifinio.
- The goal of this project is to assess the feasibility of such a program in the context of this resource-limited region and gather information about the most effective educational methods among the current cohort of local staff in order to ultimately inform the maternal health team's choice of curriculum design and content within this new online midwifery education curriculum.

PRE-PILOT SURVEY



Limitations:

- Time constraint
- Internet reliability
- Supervision and support

Preferences:

- Student pairing
- Content: videos, vignette readings
- Mentorship: synchronous, groups
- Assessments: multiple choice, free-response

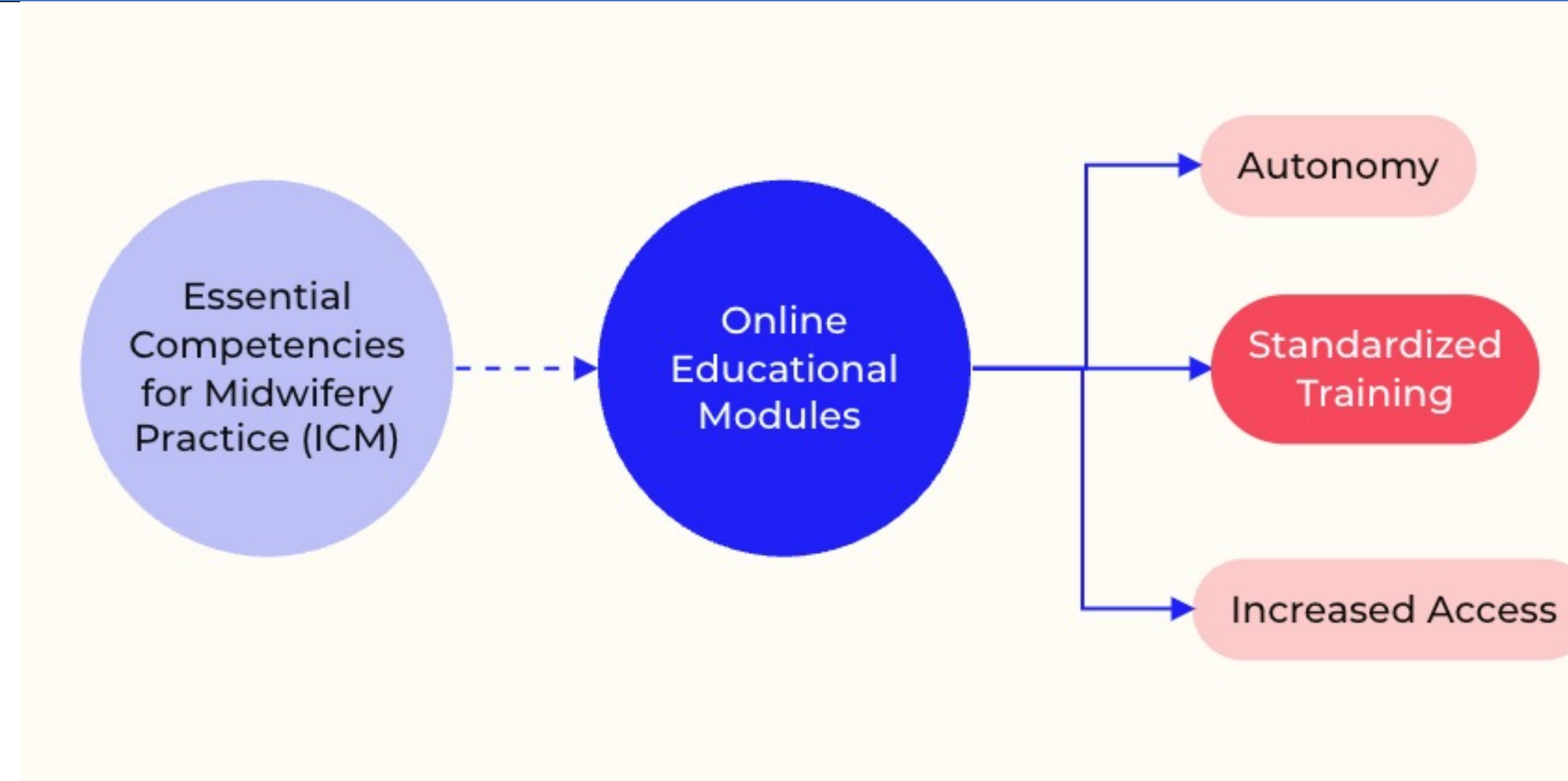
PROGRAM DESIGN

- **STRUCTURE**
 - Study materials via Google Drive
 - Synchronous interactions via Zoom
 - Pairs of 1-2 students
 - Self-paced asynchronous module completion
 - Synchronous online mentorship
- **MODULES**
 - 1-2 ICM competencies per module
 - Adaptation by designated US-based clinicians
- **ASSESSMENT**
 - Clinical Skills (supervised by charge nurse)
 - Medical Knowledge (one quiz per module, 1 test per 3-4 modules)
- **ADDITIONAL RESOURCES**
 - Content Creation Process Map
 - Participant Course Logistics Handbook
 - Post-pilot survey

ASSESSING PROGRAM FEASIBILITY: LITERATURE REVIEW

- **Evidence table 1. Midwifery education in Guatemala:** Four mixed-method case studies examining in-person educational programs for “skilled birth attendants (SBA’s)” demonstrated heterogeneity among few existing programs.
- **Evidence table 2. Global remote e-learning programs supported by mentorship:** demonstrated high satisfaction among participants in five case studies detailing healthcare related e-learning programs supplemented by remote mentorship in low-resource settings.
- **Evidence table 3. Distance e-learning programs in low-resource settings:** demonstrated high acceptance and feasibility of e-learning programs in low-resource global settings among five case studies.

CURRICULUM DESIGN



FUTURE WORK

1. Modules creation
2. Pilot 3-5 modules
3. Quality improvement
4. Ongoing mentorship recruitment

ACKNOWLEDGMENTS

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- **ETHICAL STATEMENT:** The Colorado Multiple Institutional Review Board approved this de-identified secondary analysis of data prospectively collected as part of a quality improvement database (COMIRB # 15-0909).

