

Core Elements of Team–Based Learning "A special form of collaborative learning using a special sequence of individual work, group work, and immediate feedback to create a motivational framework in which students increasingly hold each other accountable for coming to class prepared and contributing to the discussion.' – Michael Sweet (n.d.) Review of Goals and Expectations • Forming Permanent Teams of 5-7 Members (With Members from Multiple Disciplines) Learning Content Through Preparation Outside of Class Readings Lecture Capture Website Reviews Accountability – Readiness Assurance Process Individual Readiness Assurance Test Team Readiness Assurance Test Frequent and Timely Feedback including Peer Evaluation In-Class Activities Small amount of time clarifying concepts from readings Case-based Applications (Significant Problem, Specific Decision) Integrative Assignment Background

NH-ME LEND adopted Team-Based Learning beginning in Fall 2014 to:

- Use a consistent instructional methodology and coordinate instruction across content modules among all faculty,
- Actively engage a diverse group of learners,
- Strengthen trainees' mastery of content, critical thinking skills, and interdisciplinary team work, and
- Maximize face-to-face time and the use of technology.

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Improving Effective Interdisciplinary Team Work Using Team-Based Learning within the NH-ME LEND Curriculum: Comparing Years 1 – 3

Alan Kurtz, Ph.D., Rae Sonnenmeier, Ph.D., Betsy P. Humphreys, Ph.D., & Susan Russell, MS



UNH and UMaine LEND trainees and faculty engage in Team-Based Learning in weekly seminars via video conferencing using Zoom technology.

Challenges to Implementing Team–Based Learning in NH-ME LEND

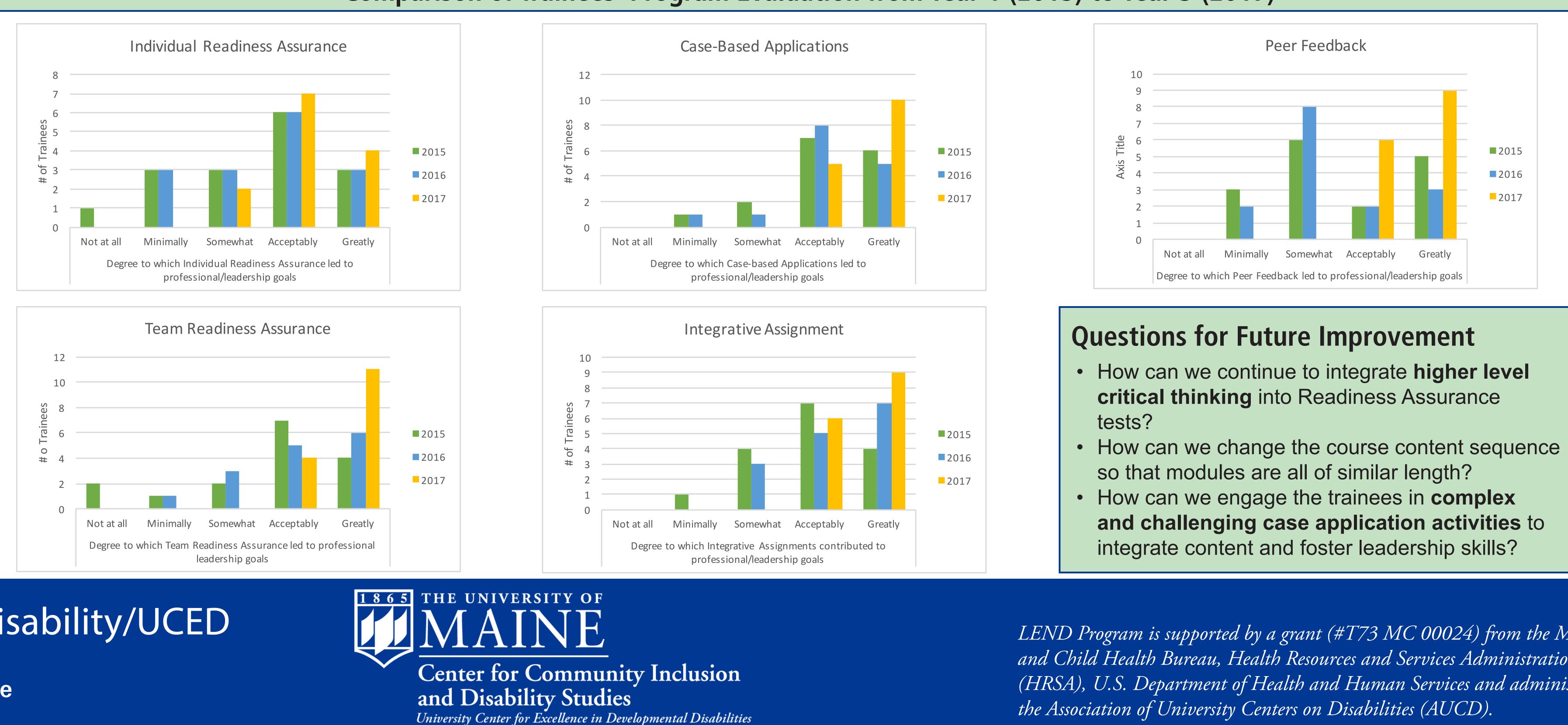
 TBL considered ideal in situations with high student to faculty ratio. (Fatima, et al, 2013; Clark, Nguyen; Mennenga, 2013). The NH-ME LEND has a very high teacher to student ratio.

- It can be difficult to get "buy-in" by all faculty when the number of faculty is large (Allen et al., 2013).
- It can be difficult to create assignments that challenge all team members of diverse teams, support active participation by all team members, while integrating content from all faculty.
- Distant campuses can be an "inhibiting factor" for effective team based learning (Copeland et al., 2013).
- Research suggests that TBL is implemented most effectively on a single campus. Maine and New Hampshire connect through Zoom technology. Maine constitutes a team in itself – making it impossible to assign Maine trainees to teams deliberately and systematically.

Improvements Based on Years 1 – 3 Evaluations

- quantity of preparation materials.

- Added instruction on providing **peer feedback**.
- first semester.



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New Hampshire

• Expanded strategies to engage a large faculty in TBL methodology.

• Defined **clear learning outcomes** for each content module.

• Identified "table of contents" readings and developed reading guides based on the learning outcomes to balance quality vs.

• Developed faculty skills in writing readiness assurance test questions using Bloom's Taxonomy to improve the assessment process and to ensure focus on content discussions.

Developed faculty comfort and skill to focus on key concepts during "mini-lectures" to support case application activities.

Explained TBL to trainees during the recruitment process so that they were aware of expectations prior to the start of the

Improved technology used in connecting two sites during class.

• Kept trainees in same teams for entire year instead of changing at end of 1st semester.

Comparison of Trainees' Program Evaluation from Year 1 (2015) to Year 3 (2017)







LEND trainees share their discussions based on case-based application activities.

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