



Connecting with the Secretariat Webinar

June 21, 2018

1:30 pm – 3:00 pm ET

Welcome!

Please remember to connect to audio.

- You will not hear audio until the webinar begins at 1:30.
- An audio connection pop-up box should appear on your screen (if you closed it, click on the “Communicate” tab in the upper left of WebEx then click “Audio Connection”). Then select an option: “I Will Call In,” “Call Using Computer,” or “Call Me.”
- If you select “Call Using Computer,” you will have the option to test your microphone and speakers first. If they are disabled, please call in instead.
- If you call in, be sure to dial the access code and “Attendee ID” so your name will be linked to your phone and we can unmute you if you have a question.

Element 7.3 Scientific Method/Clinical/Translational Research

The faculty of a medical school ensure that the medical curriculum includes instruction in the scientific method and in the basic scientific and ethical principles of clinical and translational research, including the ways in which such research is conducted, evaluated, explained to patients, and applied to patient care.



LIAISON COMMITTEE ON
MEDICAL EDUCATION

Guest Speaker



Ross McKinney, Jr, MD
Chief Scientific Officer, AAMC



Tomorrow's Doctors, Tomorrow's Cures

Learn

Serve

Lead

LCME: Element 7.3 Research Methods

Ross McKinney, Jr, MD



Association of
American Medical Colleges

Overview

- LCME Element 7.3
- Expectations around the scientific method
- Expectations around clinical research
- The meaning of translational research
- Awareness of other research strategies

LCME Element 7.3

The faculty of a medical school ensure that the medical curriculum includes instruction in the **scientific method** and in the **basic scientific and ethical principles of clinical and translational research**, including ways in which such research is conducted, evaluated, explained to patients, and applied to patient care.

Definitions

- **Scientific Method**: A method of procedure consisting in systematic observation, measurement, and experiment, and the formulation, testing, and modification of hypotheses. Typically the method consists of the following steps:
 1. Identifying and defining a problem
 2. Accumulating relevant data
 3. Formulating a tentative hypothesis

Definitions

- Scientific method (continued)
 4. Conducting experiments to test the hypothesis
 5. Interpreting the results objectively
 6. Repeating the steps until an acceptable solution is found

Definitions

- **Clinical research**: The conduct of medical studies involving human subjects, the data from which are intended to facilitate application of the studies' findings to medical practice in order to enhance the prevention, diagnosis, and treatment of medical conditions.

Expectations – Clinical Research

- Understand the fundamental rules of clinical research (IRB, informed consent, equipoise)
- Know how to interpret clinical research articles
 - For self learning (practice improvement)
 - To explain to patients
 - Informed consent process
 - Interpretation of results
- Possibly engage in clinical research

Definitions

- **Translational research**: Translational research includes two areas of investigation. In the first, discoveries generated during research in the laboratory and in preclinical studies are applied to the development of trials and studies in humans. In the second, the efficacy and cost-effectiveness of prevention and treatment strategies are studied to accelerate adoption of best practices in communities and populations.

Expectations – Translational Research

- Understand the stages of translational research
 - Pre-clinical work (post-basic discovery, typically through Phase I in the drug development pathway)
 - Implementation research
 - Treatment strategies
 - Cost-effectiveness
 - Population studies
- Genetic/genomic studies

Other Areas of Research

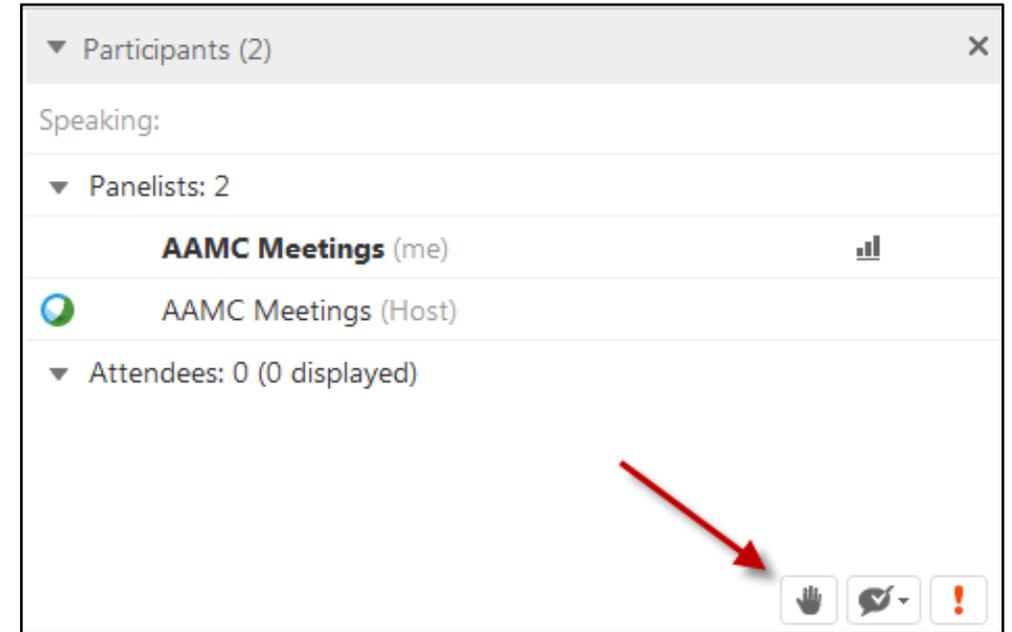
- Hypothesis generating work
- Surveys, exploratory projects
- Thought experiments
- Educational work (often uses hypothesis-evaluating methods)

Questions?

2 Ways to Ask Questions

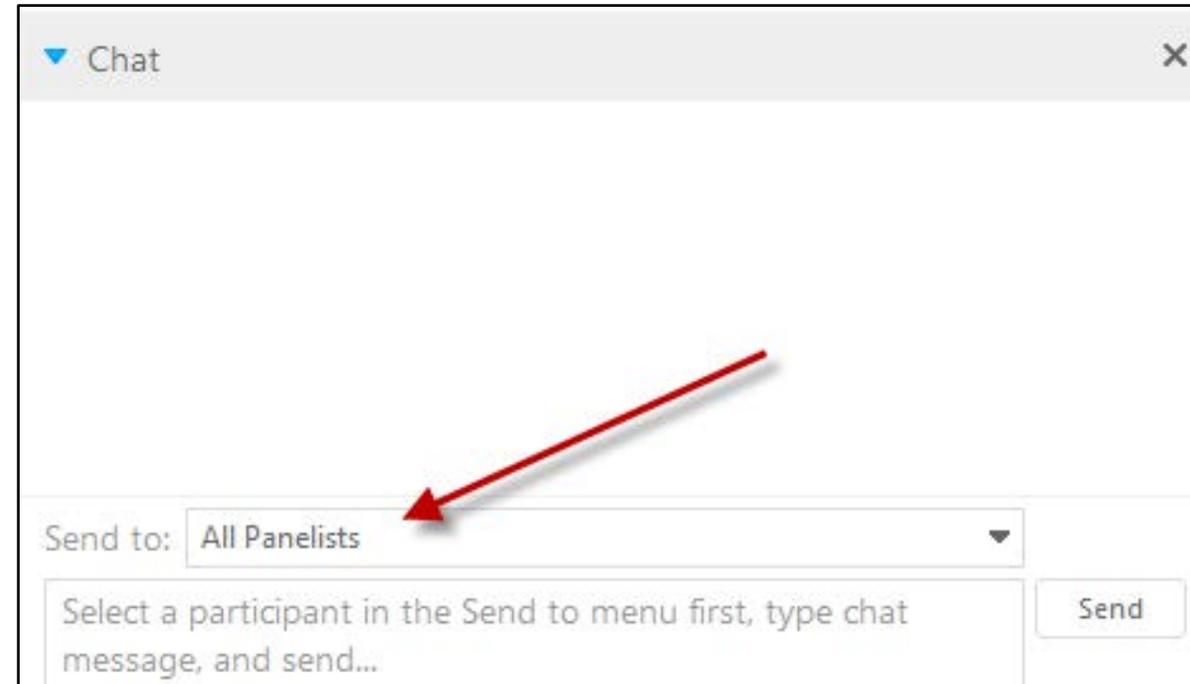
Verbal

Click the “Raise Hand” icon () to ask a question over the teleconference line. Your name will be called and your phone line will be unmuted. Then click the  again so we know you are finished.



Written

Submit typed questions through the Chat panel. Send to All Panelists.





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Submitted Questions for Element 7.3



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Submitted Question for Element 7.3

1. The LCME questions on scientific methods and clinical/translational research seem to focus on methodologies for a narrow set of scientific disciplines. As we work to educate our students in a broader set of scientific disciplines that use different methodologies (systems science, social and behavioral science, educational science) how can we respond to questions that relate to labs, etc.?

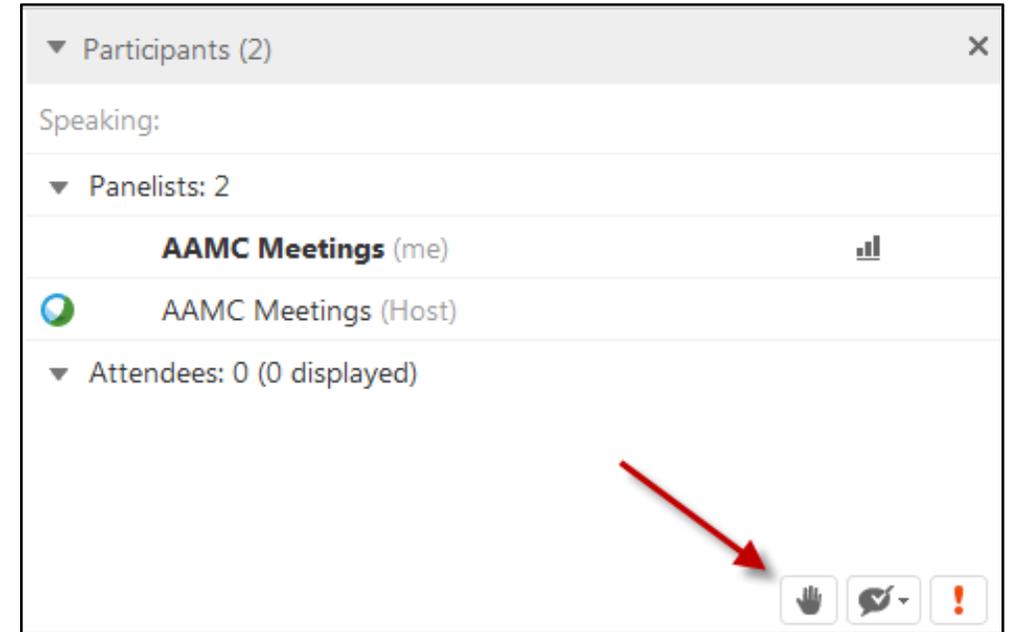
Submitted Questions for Element 7.3

2. In the latest wording of the Scientific Method part of Standard 7.3, does removal of the parenthetical clause explicitly requiring practical data manipulation by students imply that such a requirement has been relaxed or abolished--could that part of the standard be met with didactics alone, for instance?
3. If there is a remaining requirement for students to manipulate data, does the recent increase in importance of database research (genomics and population data, etc.) allow practical work in that area to satisfy such a requirement on the same basis as manipulating actual or simulated lab data?

2 Ways to Ask Questions

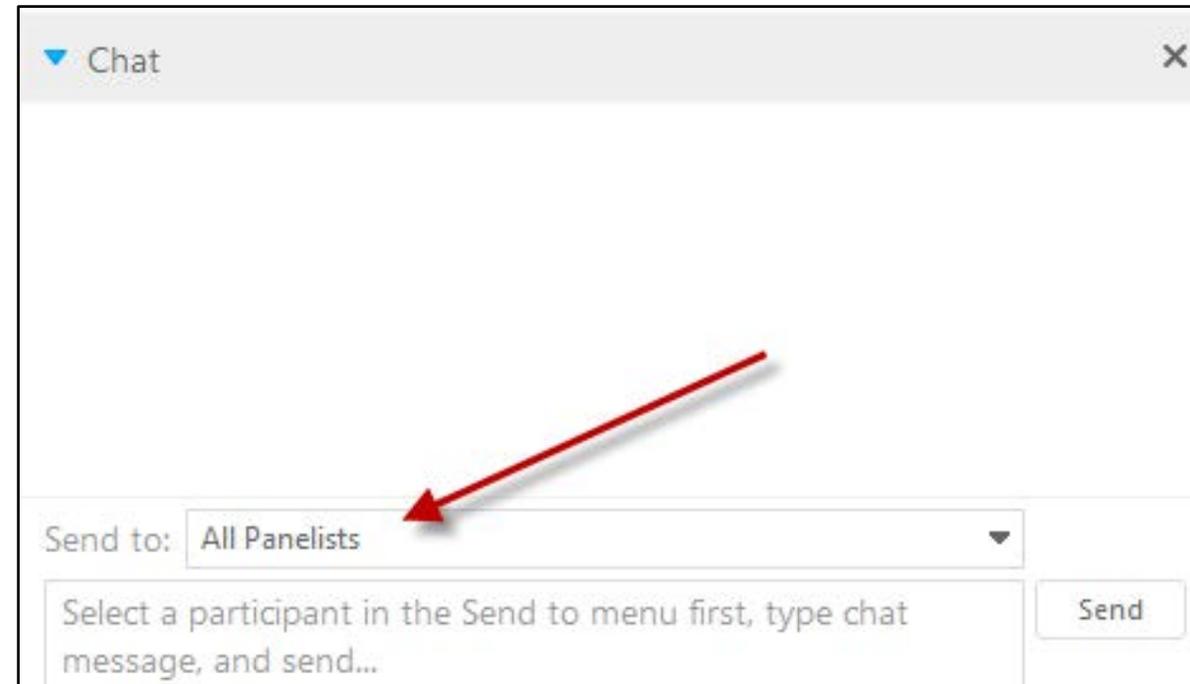
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Announcements: LCME Events at Learn, Serve, Lead 2018: The AAMC Annual Meeting

lcme.org/event/2018-learn-serve-lead

To visit the Learn, Serve, Lead 2018: The AAMC Annual Meeting webpage, [click here](#).

Sunday, November 4, 2018; 10:30 AM – 11:45 AM

It's Not Easy Being Dean: LCME Accreditation and Academic Medical Center Structural Diversification

This session addresses the challenges and opportunities for medical schools in meeting LCME accreditation and institutional mission-specific expectations in an environment of changing clinical affiliations, diverse governance structures, and distributed learning and health care provision models.

Session Speakers

- **Carrie L. Byington, MD**, Vice Chancellor for Health Services, The Texas A&M University System, Dean of the College of Medicine, Texas A&M University Health Science Center College of Medicine
- **J. Larry Jameson, MD, PhD**, Executive Vice President, University of Pennsylvania for the Health System and Dean, The Raymond and Ruth Perelman School of Medicine at the University of Pennsylvania
- **Stephen Ray Mitchell, MD, MBA**, Dean for Medical Education, Georgetown University School of Medicine
- **John A. Rock, MD**, Founding Dean, Herbert Wertheim College of Medicine, Senior Vice President for Health Affairs, Florida International University



Announcements: LCME Events at Learn, Serve, Lead 2018: The AAMC Annual Meeting

lcme.org/event/2018-learn-serve-lead

LCME Private Consultations

The Liaison Committee on Medical Education (LCME) Secretariat staff is available by appointment to meet with representatives from schools who seek guidance on issues unique to their school. These in person meetings could range from 30 to 60 minutes depending on the complexity of the discussion.

Please complete and submit the [online consultation request form](#) to request a private consultation during the AAMC Annual Meeting.

To request a private LCME consultation at Learn Serve Lead 2018, complete and submit the online form: form.jotform.com/lcme/lcme-consultation-request.

Consultation scheduling is on a first-come, first-served basis.



LIAISON COMMITTEE ON MEDICAL EDUCATION

Announcements: NEW LCME White Paper on Element 7.9

LCME Principles for Education to Develop Interprofessional Collaborative Skills (Element 7.9)

This document includes general principles for including education related to interprofessional collaborative care (ICC) in the curriculum that collectively would support medical student preparation to be members of interprofessional health care teams that deliver coordinated services to patients.

Download the white paper from the LCME website: lcme.org/publications/#White-Papers

White Papers

Search:

Document Type	Document	Effective Academic Year	Publication Date (click to download)
White Papers	LCME Principles for Education to Develop Interprofessional Collaborative Skills (Element 7.9)	This document is not specific to an academic year.	June 2018



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Next Webinar: Thursday, July 19, 2018

**Topic of the Month:
(Themed) Tapas!**

Email your questions and element suggestions to lcme@aamc.org