



Western  
University  
OF HEALTH SCIENCES

*The discipline of learning. The art of caring.*

# Tele-delivered vs. In-Person Simulations for Evaluating Interprofessional Collaboration

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# Disclosures



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# Study Purpose



Online interprofessional simulations...

...Feasible, practical?

...Does delivery mode affect student performance?

# Participants

Osteopathic Medicine Students

Completed Phases I & II

- I. Team modules/cases, Problem-Based Learning
- II. Team projects, internet + in-person capstone
- III. Simulations

# Methods

- 25 in-person



- 28 online via video connection (Zoom)



- Mean average self-ratings
- Mean average observer ratings

# Methods: ATOSCE Overview

- ✓ **A**mbulatory
- ✓ **T**eam
- ✓ **O**bjective
- ✓ **S**tructured
- ✓ **C**linical
- ✓ **E**xamination

- **Realistic scenario**
- **Challenges students to:**
  - Be patient-centered
  - Include family
  - Work collaboratively
- **Focus on safety; continuity of care**
- **Ambulatory setting**
- **Geriatric focus**

# Methods: Simulation Durations



1. Chart review



2. Patient Encounter



3. Follow-up



4. Debrief



5. Group Debrief

# Methods: Scenarios, Parallel Format

Patient

Mariam – elderly stroke pt

Mike – homeless veteran



Family

Joe – caregiver son

“Max” – dog

Standardized  
Clinician

Health Care Providers

Health Care Providers



# Analyses

- Mean average self-ratings
- Mean average observer ratings

	Strongly Disagree	Disagree	Agree	Strongly Agree	Not Applicable
1. I collaborated with members of the team when making decisions.	1	2	3	4	N/A
2. I attended to issues of patient safety.	1	2	3	4	N/A
3. I addressed medication issues.	1	2	3	4	N/A
4. I advocated for the patient even when others' viewpoints didn't coincide with mine.	1	2	3	4	N/A
5. I communicated effectively with others in this case.	1	2	3	4	N/A

## Student...

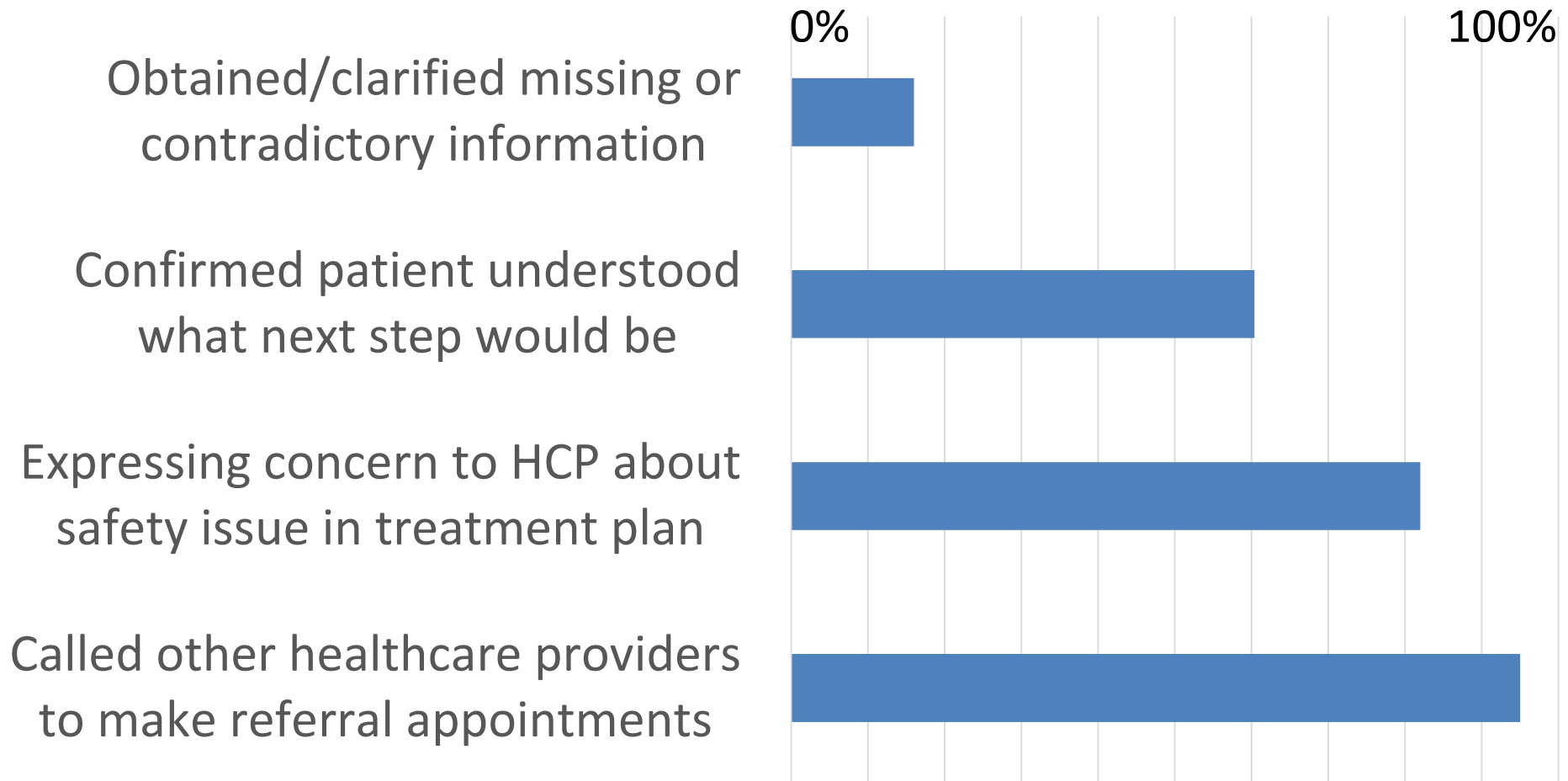
- 1a. Spoke directly with patient about their concerns
- 1b. Spoke directly with caregiver about their concerns
- 2a. Mentioned  $\geq 1$  physical safety hazards  
(ill-fitting walker, flip flops, lamp cord, throw rug)
- 2b. Corrected physical safety hazard or suggested a correction
3. Posed a question about medication prescription or compliance
- 4a. Identified a safety concern regarding medications (not regarding compliance)

# Results



# Results

## Range of performance: Highlights (Averaged Across Both Conditions)



# Results

- Mean average self-ratings, in-person vs. Online: n.s.
- Mean average observer ratings, in-person vs. Online: Higher for online
  - 68% of behaviors performed successfully In-person vs. 60% Online
- In-person better nearly across the board

# Discussion

- Possible online disadvantage; caution about remote/decentralized delivery
- Future research might investigate sources:
  - Attention?
  - Personal contact?
  - Control?

# Thank you!

## Questions?

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