

Educating for teamwork- Simulations to promote coordination skills in nursing education

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The study is supported by grants from Laerdal Foundation

What is simulation?

Briefing (15 min.)	The simulation of a scenario (15 min.)	Debriefing/ guided reflection (20-30 min.)
Introduction to: room, equipment, patient- simulator	Scenario takes place  University of Stavanger	1. Describe the patient's situation 2. Analyze 3. Apply in the practical field

Timeline 15 min + 15 min + 30 min = 1 hour





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Background

- Breakdowns in teamwork are a contributing factor to adverse events
- Simulations improve patient safety
- Most research applies experimental designs
- Few studies of the very process of learning





Aim

- Gain new knowledge on how simulation-based environments can function as an arena for training and improving teamwork coordination skills



Research questions

1. -how facilitators in the briefing make visible the practical skills necessary to act in the simulation scenario
 - how students' display their understandings of these instructions
 - the interplay of instructions and such displays?
2. -what methods are employed by students to coordinate their actions in a simulation-based environment?
 - how are such methods constituted and enacted in student interaction?

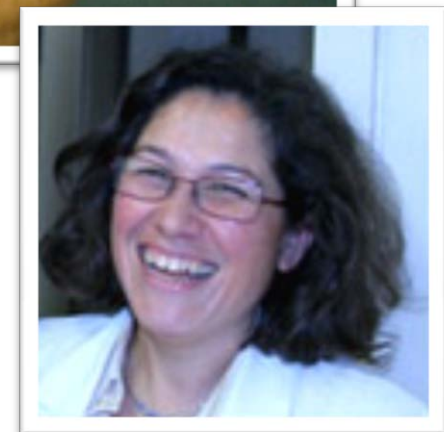


Theoretical framework

- Social constructivist perspective
- Social-cultural theory
- Ethnomethodology

Methods

- Interaction analysis
- Identify how the participants' make their actions intelligible for each other
- Communication modes
 - speech
 - bodily behavior
 - gestures
 - environment





Methods

Participants:

- 80 nursing students in the last semester
- 5 female faculty members

Data:

- 26 hours of video-recordings



Results

- Verbal speech is not alone sufficient for achieving coordinated action in cardiac arrest
- It presupposes indirect communication like bodily conduct and gestures





How coordinated teamwork presupposes verbal speech and gestures

1



2



3





Conclusion

- Simulation can be used for training coordinated action in resuscitation teams for the purpose of improving patient safety
- Both verbal and tacit aspects of coordination in teamwork should be trained in nursing education
- Research should focus on how verbal communication and bodily behaviour are combined in teamwork





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