

From Day One: Promoting Clinical Skills Self-Reflection for 1st Year Medical Students through a Comprehensive Evaluation and Mentoring Program

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Introduction

- Medical interviewing, reflection and self-assessment skills are essential for future physicians
- Students bring to medical school ideas, habits, and values about their interpersonal and communication skills
- Students' self-assessment is variably accurate and insightful
- In quarter 1 of Practice of Medicine (POM), MS1 develop reflection, interpersonal and communication skills through a curriculum using simulated medical encounters with Standardized Patients (SP)

Statement of Problem or Question

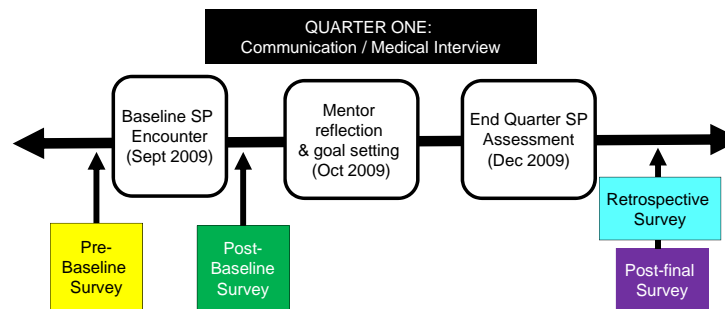
Does a baseline SP interview prior to the start of the medical communication curriculum, along with mentored reflection and performance data, **increase students' self awareness** regarding their interviewing knowledge, skills and attitudes, and does this **increase the salience of subsequent curriculum**?

Description of Program

Objective: We implemented a comprehensive program in communication skills development, evaluation, self-assessment, and feedback for students to improve skills in interviewing, reflection, and self-directed learning

- In 2009, we aimed to measure medical students' (n=63) self-assessments of their developing communication skills, knowledge, and attitudes both before and after their first year medical communications curriculum
- To assess learners' insights, we used the Patient-Physician Interaction (PPI) instrument, administered at three points during the quarter
- Students rated confidence and competence in patient communication, and SPs evaluated students using the PPI checklist
- Educators for CARE (E4C) consists of 15 faculty mentors in multiple disciplines committed to developing medical students as skilled and compassionate physicians
- Faculty mentors in E4C are responsible for 5-6 students longitudinally
- Mentors facilitated mid-quarter reflection with students to develop learning goals

Timeline



Key Lessons Learned

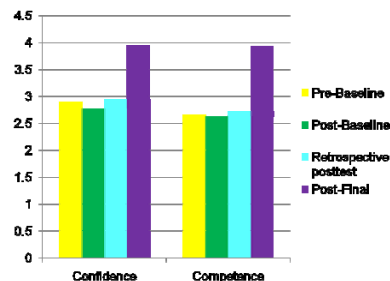
- Self-assessment of communication skills following an SP encounter, along with facilitated reflection with mentors, may focus and motivate student learning, create a nidus for reflection, and potentiate student attention to the medical interviewing curriculum
- Decreases in confidence and competence in communication skills between pre-baseline and post-baseline ratings may reflect students' new insights into areas for improvement, and illustrate the value of the baseline exercise and facilitated reflection with mentors
- Strengths and areas for improvement direct personal learning goals and curricular reform

Possible limitations

- Pedagogically, we chose not to withhold curriculum from a subset of students, and therefore did not have a control group
- We also have a great diversity of student knowledge and skill sets coming into medical school. We did not stratify our data by prior experience

Findings to Date: Student Self-Assessment

Communication Confidence and Competence



- Decreases in mean confidence and self-reported competence in communication skills between pre-baseline and post-baseline ratings
- Retrospective posttest and post-final ratings show significant ($p \leq 0.00$) increases in self-reported confidence and competence

Thematic Analysis of Student Comments

- Students value the baseline exercise
"This experience was valuable to show how much I don't know."
- Students' lack of medical knowledge inhibits them
- Students value process and flow
- Students struggle with understanding their professional identity
"It was tough to assume a new role when I don't know how to play it well."

Patient-Physician Interaction Categories

- Significant increases ($p \leq 0.00$) by end quarter in mean self-reports of performance in all 9 PPI categories
- professional competence
- opening the encounter
- gathering information
- active listening
- established rapport
- exploring the patient's perspective
- patients feelings
- addressing the patient's needs
- closing effectively

Questions for Future Research

- Do MS1 self-assessments of PPI correlate with SP ratings?
- How do student and SP ratings compare with those of physician preceptors who observed the final exercise?
- Do MS1 perceptions of strengths and areas for improvement correlate with performance ratings?
- Can student reflection be enhanced through review of their video encounters?
- Observing development of knowledge and skills through medical school, are early insights addressed over time?

References

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