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Nursing Students Teaching Medical Students: An Interdisciplinary Teaching Experience

Authors
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For a number of years, Advanced Practice Nursing (APN) students have taught interested 1st year medical students to perform intramuscular injections prior to their participation in community flu clinics. When several 4th year medical students needed documentation of competency in intravenous (IV) cannulation prior to participating in an elective rotation at another institution, the Director of Interdisciplinary Partnerships in the Graduate School of Nursing requested assistance from the medical school’s Dean of Students. In fact, all medical students need IV therapy training prior to graduation, not just those who seek out elective rotations at other medical schools. Integration of IV therapy training into the Undergraduate Medical Education Surgery Clerkship curriculum supports the clinical objectives of the Surgery Clerkship along with the developing use of simulation within the medical school. This need led to the development of this interdisciplinary simulation education initiative.

### BACKGROUND
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### METHODS
The School of Medicine’s Surgery Clerkship Director submitted a proposal for curriculum development funds to purchase four upper extremity IV task trainers and supplies for the UMMS Simulation Center. The APN students searched the literature for evidence for best practices to develop the curriculum. They then prepared a PowerPoint presentation, handouts, pre/post-tests, course evaluation, and developed a guided hands-on practice session utilizing venipuncture/injection arms. During each of the past two academic years, all 3rd and 4th year medical students were notified of this opportunity via email. A total of 182 students participated in one 2-hour class.

### RESULTS
One hundred twenty-three medical students completed the pre-test and 118 completed the post-test. The pre/post-test consisted of nine multiple-choice “knowledge” questions and one “confidence” question (see graphic 1). The mean knowledge-based pre-test score was 74%; the mean post-test score increased to 96%. On a four-point scale ranging from “no confidence at all” to “very confident,” 16% of participating medical students rated themselves “somewhat” or “very confident” at selecting a vein and starting an IV prior to the training module. Upon completion of the IV cannulation training, 91% of the medical students rated themselves as “somewhat” or “very confident,” an increase of 75%.

### Student Comments
§ The instructors were extremely helpful and provided much information from their personal experience.
§ APN instructors were very specific and helpful. They gave constructive feedback.
§ It’s always great to hear real-life experiences and have input from people with experience.
§ Very helpful to be taught by nursing students.
§ The nurses were great. They were very patient and knowledgeable.

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