

[P01.018] Use of a High-Fidelity Simulation Center for Education and Assessment of Non-Technical Skills in Neurology Residency Education

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OBJECTIVE: To include a high-fidelity simulation center as a unique way to educate and assess the competencies of patient care and interpersonal/communication skills. **BACKGROUND:** To develop one way to educate residents and assess their skill effectiveness or lack thereof in patient care and interpersonal/communication, scenarios were developed for use in the Medical Simulation Center. **DESIGN/METHODS:** Case scenarios and assessment checklists were developed. Neurology residents interact as treating physician, emergency resident, and patient spouse with a high-fidelity mannequin and other monitoring. During the scenario, the resident must perform a patient evaluation and treatment plan with discussion with the family. A debriefing is held with review of the session, resident self, peer, and program director assessment. **RESULTS:** No resident performed in a manner to complete 100% of all checklist items. Examples of areas not performed in a satisfactory manner are use of medical terminology during discussion with family, not presenting a full discussion of risks/benefits of a planned treatment with family, not interpreting data correctly, not intervening with abnormal vital signs. During the debriefing session, each resident was able to verbalize an example of appropriate action and an example of an area that needs improvement. Peer and attending comments on performance and suggestions are discussed. *Scenarios and debriefing sessions on DVD could be played if technology available at poster table.* **CONCLUSIONS/RELEVANCE:** The simulation center allows a resident to proceed through a case scenario safely, improving communication and patient care skills as well as undergo self, peer, and faculty evaluation with the goal of competence. Educational feedback is immediately done to be as effective as possible. Although this was an anecdotally helpful practice for my residents, in order to utilize the simulation center for measurable resident development and patient safety, the utilization of this form of assessment will require higher volume of participation and development of standardized assessment tools.