Education innovation: compilation of an EM Simulation resource to facilitate the use of simulation for our local EM program.

Michael Parsons

Corresponding author: Michael Parsons

1. Emergency Medicine, Memorial University of Newfoundland

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Abstract

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Introduction

Simulation-based medical education (SBME) has seen increased application in medical education. Emergency medicine trainees must develop a diverse skill set to smoothly transition to clinical practice and ensure optimal patient outcomes. The competency-based medical education (CBME) framework helps ensure residents develop the required expertise relating to each of the CanMEDs roles. Simulation is a valuable supplement to hands-on clinical experience and allows skill development in a low-risk setting. The EM Simulation book serves to facilitate the effective application of simulation in our curriculum.

Methods

Tailored to meet the local needs of our simulation program, content focuses on core EM and SBME topics. Authors’ personal experience, knowledge and training in simulation directed design of the document. Local contacts provided information specific to our site. Prior training helped in review and selection of materials on simulation theory and debriefing. Core EM resources were sourced for information on procedural training. Literature review on simulation was used to compile a list of resources and materials for further reading. The development and revision of the manual continues as an iterative process with sequential edits based on review and feedback.

Curriculum, tool or material

The final product is a 94-page document provided in print and electronic format to the EM residents and several faculty involved in simulation. It introduces residents to local simulation, provides relevant background information and orients them to this modality of curriculum delivery. Theory and rationale behind simulation is included. Information on the key role of debriefing is highlighted. Some core EM procedural topics are covered with tips on practice station set up. Additional learning resources are noted, including information on case development for potential teachers.
Conclusions

Our simulation book brings together key information to optimize the simulation-based medical education experience for EM residents at our site.