The Deteriorating Child simulation

Improves knowledge, clinical skills and communication at specialist doctors and qualified nurses at “Safra" Children's hospital in “Sheba" hospital.

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Practice in the department with real equipment and follow a realistic scenario

Background: The simulation serves as a tool enables individuals and teams to experience simulated scenarios within a secure and controlled environment . It’s primary purpose is to enhance knowledge, professional skills and abilities. These simulations are designed to closely mimic **real-world situations**. This realistic foundation allows participants to learn and practice in safe conditions, effectively reducing uncertainty in preparation for future real-world actions.

Goals: Siblings and medical professionals undergoing training through a deteriorating child simulation will gain knowledge, improve clinical skills and enhance communication and teamwork for medical professionals (nurses and doctors). This preparation aims to enhance their ability to treat children experiencing medical deterioration effectively in the future.

Research methods: interventional prospective study.

The target population for this study comprises specialist doctors and qualified nurses employed at “Safra” Children's hospital in Israel.

The dependent variable in this study is the evaluation of knowledge, communication skills and clinical proficiency using **anonymous questionnaires** before and after the simulations. Those simulations are conducted within the pediatrics departments.

The independent variable under investigation is the use of simulations. These simulations will be conducted within the children’s departments involving teams of specialist doctors and qualified nurses .Following each simulation a debriefing session will occur to discuss the scenario, extract valuable lessons and facilitate experiential learning.

Findings and conclusions: An initial pilot was conducted involving approximately 100 pediatrics residents and qualified nurses in collaboration with the National center for Medical Simulation Unit. The program instructors showing initial evidence for improvement in the knowledge’ communication and procedurals skills axis. These trained instructors now take on the responsibility of training teams within their respective departments. The project is currently expanding to other departments within the children's hospital.

Close training and research in each simulation





Strengthening teamwork when treating a deteriorating child