Title: Simulation based curriculum for CRRT training and ongoing competency evaluation

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CRRT is a 24-hour dialysis treatment used in critical care patients with renal failure who cannot tolerate intermittent dialysis. It is an advance technology and is operated only by trained critical care nurses. In our set-up, CRRT course was conducted following full day sessions and demonstration and remonstration of kit installation. Later, participants were required to perform five kit installations under supervision. Challenge was that CRRT happens rarely and thus not all participants were able to complete five kit installations thus, remained uncertified. Participants who get the chance to perform kit installations were many a times so delayed that participant would forget the concepts and circuit connections hence, they would fail the sign-off. Moreover, expectation from participants was to only be able to install kit successfully and not the trouble shooting of issues arising. As result, total number of certified staff remained less in number then required. Due to lack of trained staff, the therapy has been underutilized in pediatric and cardiology population. A simulation based 16-hour workshop was designed to fulfill competency needs of critical care nurses. The workshop included, seven learning modules which were delivered through multiple teaching learning strategies including tutorials, video presentations and demonstrations. Moreover, it also included three simulation based sign-offs each with interval of 15 days using high fidelity manikins and two sign-offs on actual patients. During simulation, participants were observed for kit installation, mode selection and trouble shooting. First cycle of the workshop is already completed certifying 15 Nurses. It will be continued every 6 months to maintain the competencies and numbers of CRRT nurses.

Biography

Samera has completed MScN in 2016 from Aga Khan University School of Nursing and Midwifery. She has over 10 years of expirience working in medical surgical and critical care areas. She is nurse specialist in surgical intensive care unit and medical surgical ward.

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