

6.09 PRO-SIM: Acute NIV Simulation Education for Internal Medicine Trainees

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Background: Troubleshooting acute NIV is a commonly encountered problem by medical registrars. IMTs are at a critical progression stage where simulation training is mandatory. Whilst simulation courses have become mainstay in Northern Ireland, none at present focus on acute NIV. **Methods:** A pilot simulation course was developed with the aim of developing technical and non-technical skills in the management of acute NIV using realistic scenarios combined with a novel learning tool. A pre- and post-course questionnaire was completed by each candidate using a Likert scale (1 to 5 - 1 = highly disagree; 5 = highly agree) for 3 domains - clinical indications, NIV practicalities, and communication. A pilot course was delivered to 8 IMTs on 03/06/2024 at Ulster Hospital Sim Suite. 100% of participants found the course helpful. Mean scores were significantly higher in the post-course questionnaire in all domains, especially in trainee's confidence in managing acute NIV in patients with restrictive lung disease (2.57 to 4.50), practicalities of NIV circuit set-up (1.57 to 4.75), and communicating to patients (2.57 to 4.88). **Results:** This pilot demonstrated feasibility of delivering an acute NIV simulation course and shows promising results for improving the knowledge and technical ability of acute NIV management for future medical registrars. **Conflict of Interest:** The authors declare that they have no conflict of interest.