

ROLE SWAPPING BETWEEN NURSES AND PHYSICIANS IN SIMULATED ENDOSCOPY TRAINING ENHANCES COLLABORATION AND TEAMWORK: A PROSPECTIVE OBSERVATIONAL PILOT STUDY

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A prospective pilot study of 22 participants (10 endoscopists, 12 nurses) found that role-swapping simulation training in colonoscopy significantly improved both technical and non-technical skills and enhanced interdisciplinary collaboration.

KEY POINTS

- Participants showed statistically significant improvements across all non-technical skill domains assessed by validated frameworks, including situational awareness (information gathering $p=0.02$, understanding data $p=0.008$, anticipating scenarios $p=0.002$), decision-making (option consideration $p<0.001$, communication of decisions $p=0.001$), communication (information exchange $p=0.007$, team coordination $p=0.001$), and leadership (setting standards $p=0.002$, supporting teammates $p=0.012$).
- Endoscopists gained significant confidence in nursing tasks including preparing equipment ($p=0.016$), medication dilution ($p=0.016$), patient discharge ($p=0.014$), instrument arrangement ($p=0.026$), and monitoring system setup ($p=0.041$).
- Nurses demonstrated improved technical endoscopy skills including advancing the colonoscope ($p=0.004$), reducing loops ($p=0.007$), navigating turns ($p=0.007$), mucosal inspection during withdrawal ($p=0.036$), understanding quality indicators ($p=0.011$), and lesion identification ($p=0.046$).
- Participants reported high satisfaction and indicated the training increased mutual respect, role awareness, and confidence in collaborative practices.
- This simulation-based educational approach may be valuable for endoscopy teams seeking to strengthen interdisciplinary teamwork and technical cross-competencies.

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