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Summary

ACTIVITY-BASED ASSESSMENT OF NURSING WORKLOAD IN ENDOSCOPY: IMPLICATIONS FOR OPTIMAL STAFFING

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Time–motion analysis of 5,839 nursing observations across nine endoscopy procedures reveals marked variability in workload, with mean task duration ranging from 0.62 to 9.42 minutes per procedure, demonstrating that static staffing models inadequately capture the dynamic nature of endoscopy nursing activities.

KEY POINTS

- Esophagogastroduodenoscopy accounted for 1,283 observed activities with mean task duration of 0.73 minutes, colonoscopy 1,151 activities at 0.98 minutes, and sleep endoscopy (GVE) required the longest mean task duration at 9.42 minutes despite only 51 observations.
- Mean number of nursing actions per procedure ranged from 1.23 to 13.16, with intragastric balloon (BIB) requiring the highest mean of 13.16 tasks despite short individual task duration of 0.76 minutes.
- Most nursing activities were brief (0.6–1.0 minutes), but complex procedures such as endoscopic submucosal dissection required significantly longer times at 2.93 minutes per task.
- Most activities occurred during the morning shift (55.6 percent) and were predominantly performed by junior nurses (70.4 percent).
- Time–motion analysis provides an objective and reproducible method to quantify nursing workload, and the observed variability highlights that nursing activities are not adequately captured by static staffing models.

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