

THE IMPACT OF STAFFING AND TEAMWORK ON PATIENT SAFETY AND QUALITY OF CARE

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INTRODUCTION

- Improving quality of care and ensuring safe patient care are top priorities for healthcare leaders.
- Limited studies assessed the impact of teamwork and staffing on adverse patient events and quality of care in Oman.

AIM

To examine the impact of staffing and teamwork on nurse-assessed adverse patient events and perceived quality of care in the Sultanate of Oman.



METHOD

Design: Cross-sectional

Sampling: Proportional stratified clustered

Sample and Setting: staff nurses, Oman.

Measurements:

- Staffing: average number of patients nurses cared for.
- Teamwork: Assessment for Collaborative Environments tool.
- Adverse events: Adverse Patient Events scale.
- Quality of care: Rating of the overall quality of patient care over the last year.

Analysis: Descriptive statistics and Multivariate regression

RESULTS

Demographics

- 1831 nurses
- 21 hospitals
- Majority female (80%), with an average of 7 years work experience.

Study Variables

Variable	M	SD
Staffing	7.67	9.259
Teamwork	2.9	0.33
Quality of care	3.12	0.78
Adverse events	0.96	1.07

Key Findings

Staffing and Safety

- Each additional increase in the patient-to-nurse ratio was associated with a 0.062-point increase in adverse events ($\beta = 0.062$, $p = 0.018$).

Teamwork and Safety

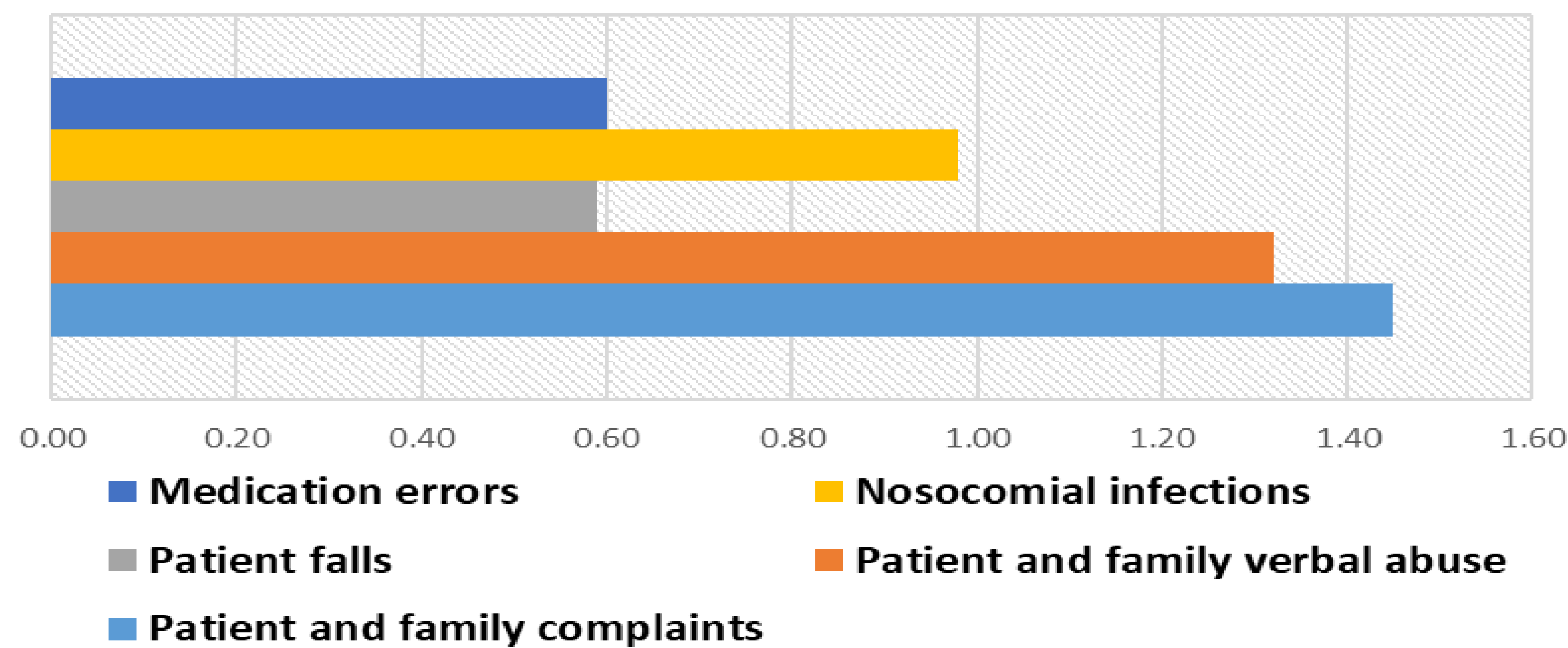
- A negative significant relationship ($\beta = -0.132$, $p < 0.01$)

Teamwork and Quality

- A positive significant relationship ($\beta = .320$, $p < 0.01$)

Types of Adverse Events

Adverse Patient Events



CONCLUSIONS

- Ensuring **adequate staffing** and emphasizing the value of **inter-professional teamwork** are instrumental strategies that can enhance patient safety and improve quality of nursing care.

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REFERENCES

- Al Sabei, S. D., Labrague, L. J., Al-Rawajfah, O., AbuAlRub, R., Burney, I. A., & Jayapal, S. K. (2022). Relationship between interprofessional teamwork and nurses' intent to leave work: The mediating role of job satisfaction and burnout. *Nursing Forum*, 57(4), 568-576.
- Al Sabei, S. D., AbuAlRub, R., Labrague, L. J., Ali Burney, I., & Al-Rawajfah, O. (2021). The impact of perceived nurses' work environment, teamness, and staffing levels on nurse-reported adverse patient events in Oman. *Nursing Forum*, 56(4), 897-904.
- Labrague, L. J., Al Sabei, S. D., AbuAlRub, R. F., Burney, I. A., & Al Rawajfah, O. (2021). Authentic leadership, nurse-assessed adverse patient events and quality of care: The mediating role of nurses' safety actions. *Journal of Nursing Management*, 29(7), 2152-2162.

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