

# 51<sup>st</sup> World Nursing Leadership & Management Conference

October 04-05, 2018 | Moscow, Russia

## Exploring relationships between first-line nurse manager's safety attitudes and safety factors in Henan, China

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**Aim:** The aim of this study is to examine first-line nurse managers' (FLNMs') perceptions of safety culture and explore relationships between FLNMs' safety attitudes and safety factors in Henan province, China.

**Background:** Health providers' perceptions of patient safety culture have been studied widely, but little is known about FLNMs' safety attitudes.

**Methods:** A cross-sectional survey was conducted with a convenience sample of 823 FLNMs in 216 hospitals across Henan province, China. The Safety Attitudes Questionnaire (SAQ-Chinese version) was distributed to FLNMs during training meetings; responses were returned in a sealed envelope in person or by mail. ANOVAs were used to analyze the differences in SAQ-Chinese version scores between FLNMs' attitudes and safety factors.

**Results:** The mean scores across the six domains of SAQ-Chinese version ranged from 56.6 to 79.4 on a 100-point scale. FLNMs  $\geq 45$  years of age perceived better safety climate ( $p < 0.05$ ); FLNMs with higher professional ranks and medical centre positions reported higher mean scores for teamwork climate ( $p < 0.01$ ) and stress recognition ( $p < 0.01$ ); and FLNMs with baccalaureate degrees or higher had significantly higher mean scores for stress recognition ( $p < 0.01$ ).

**Conclusions:** FLNMs' safety attitudes were not satisfactory and there is great potential to improve patient safety culture. Age, hospital level, educational background, and professional rank are positively related to FLNMs' attitudes.

**Implications for Nursing Management:** Hospital administrators and nurse directors should focus on the safety factors identified in this study and enact a variety of strategies to create a strong patient safety culture in China.

### Notes: