



The purpose of this systematic review and meta-analysis was to provide a precise estimate of the period prevalence of needlestick injuries (NSI) among nurses working in hospitals in Iran and the reporting rate of NSI to nurse managers” Rezaei et al (2017).

Abstract:

The purpose of this systematic review and meta-analysis was to provide a precise estimate of the period prevalence of needlestick injuries (NSI) among nurses working in hospitals in Iran and the reporting rate of NSI to nurse managers. We searched both international (PubMed, Scopus and the Institute for Scientific Information) and Iranian (Scientific Information Database, Iranmedex and Magiran) scientific databases to find studies published from 2000 to 2016 of NSI among Iranian nurses.

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The following keywords in Persian and English were used: “needle-stick” or “needle stick” or “needlestick,” with and without “injury” or “injuries,” “prevalence” or “frequency,” “nurses” or “nursing staff,” and “Iran.” In a sample of 21 articles with 6,480 participants, we estimated that the overall 1-year period prevalence of NSI was 44% (95% confidence interval [CI], 35-53%) among Iranian nurses. The overall 1-year period prevalence of reporting NSI to

nurse managers was 42% (95% CI, 33-52%). In meta-regression analysis, sample size, mean age, years of experience, and gender ratio were not associated with prevalence of NSI or reporting rate. The year of data collection was positively associated with period prevalence of NSI ( $p < .05$ ), but not with the period prevalence of reporting NSI to nurse managers. Results indicated a high NSI period prevalence and low NSI reporting rate among nurses in Iran. Thus, effective interventions are required in hospitals in Iran to reduce the prevalence and increase the reporting rate of NSI.

Reference:

Rezaei, S., Hajizadeh, M., Zandian, H., Fathi, A. and Nouri, B. (2017) Period Prevalence and Reporting Rate of Needlestick Injuries to Nurses in Iran: A Systematic Review and Meta-Analysis. *Research in Nursing & Health*. May 30th. .

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