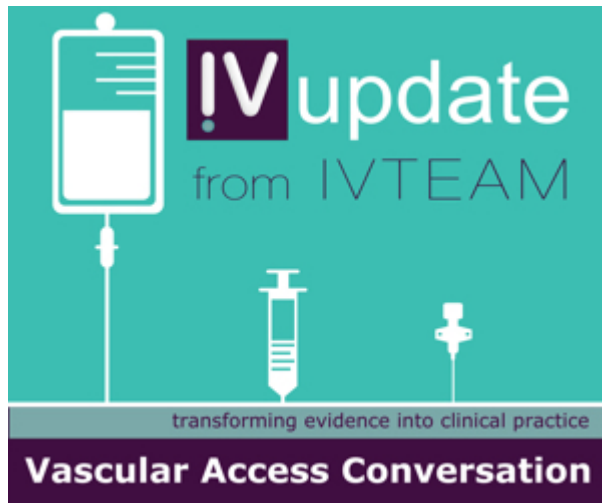


"With this study, authors aimed to calculate the cost of peripheral intravenous cannulation including all components that influence its price" van Loon et al (2020).



Abstract:

AIM: In modern healthcare there is increased focus on optimizing efficiency for every treatment or performed procedure, of which reduction of costs is an important part. With this study, authors aimed to calculate the cost of peripheral intravenous cannulation including all components that influence its price. **METHODS:** This observational cost-utilization study was conducted between May and October 2016. Hospitalized adults were included in this study, who received usual care. Peripheral intravenous cannulation was carried out according to current hospital protocols, based on international standards for peripheral intravenous catheter insertion. Device costs were assumed equal to the number of attempts multiplied by the fixed supply costs and applicable costs for additional attempts, whereas personnel costs for both nurses and physicians were based on their hourly salary. **RESULTS:** A total of 1512 patients were included in this study, with a mean of 1.37 (± 0.77) attempts and a mean time of 3.5 (± 2.7) min were needed for a successful catheter insertion. Adjusted mean costs for peripheral intravenous cannulation were estimated to be €11.67 for each patient, but costs increase as the number of attempts for successful cannulation increases. The cost for patients with a successful first attempt was lower, at approximately €9.32 but increased markedly to €65.34 when five attempts were needed. **CONCLUSION:** Prevention of multiple attempts may lower the costs, and furthermore, additional technologies applied by nurses to individual patients based on predicted difficult intravenous access will make the application

of these additional technologies, in turn, more efficient.

What should we expect from peripheral intravenous cannulation?

Effectiveness of ultrasound-guided peripheral intravenous cannulation in pediatric patients

Impact of vascular anatomy on peripheral intravenous cannulation

Reference:

van Loon, F.H., Leggett, T., Bouwman, A.R. and Dierick-van Daele, A.T. (2020) Cost-utilization of peripheral intravenous cannulation in hospitalized adults: An observational study. The Journal of Vascular Access. January 23rd. doi: 10.1177/1129729820901653. .

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