



The performance of a new safety peripheral intravenous catheter (PIVC) that contains a blood control feature in the hub (blood control) was compared against the current hospital standard without blood control (standard)" Seiberlich et al (2015).

Abstract:

INTRODUCTION: The performance of a new safety peripheral intravenous catheter (PIVC) that contains a blood control feature in the hub (blood control) was compared against the current hospital standard without blood control (standard).

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METHODS: In this prospective, non-blinded trial, patients were randomized 1:1 to receive either device. Insertions were performed and rated by emergency room nurses. Primary endpoints included clinical acceptability, incidence of blood leakage, and risk of blood exposure. Secondary endpoints were digital compression, insertion success, and usability.

RESULTS: 15 clinicians performed 152 PIVC insertions (73 blood control, 79 standard). Clinical acceptability of the blood control device (100%) was non-inferior to the standard (98.7%) ($p < 0.0001$). The blood control device had a lower incidence of blood leakage (14.1% vs 68.4%), was superior in eliminating the risk of blood exposure (93.9% vs 19.1%) and the need for digital compression (95.3% vs 19.1%), while maintaining non-inferior insertion

success rates (95.9% vs 93.7%) and usability ratings ($p < 0.0001$).

DISCUSSION: In comparison with the hospital-standard, the new safety PIVC with integrated blood control valve had similar clinical acceptability ratings yet demonstrated superior advantages to both clinicians and patients to decrease blood leakage and the clinician's risk of blood exposure, during the insertion process.

Full Text

Reference:

Seiberlich, L.E., Keay, V., Kallos, S., Junghans, T., Lang, E. and McRae, A.D. (2015) Clinical performance of a new blood control peripheral intravenous catheter: A prospective, randomized, controlled study. International Emergency Nursing. September 16th. .

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