

Use of SecurAcath saves time during dressing change compared with StatLock. Training on correct placement and removal of SecurAcath is critical to minimise pain” Goossens et al (2018).

Abstract:

Objectives: To assess the effect on needed nursing time for dressing change.

Design, setting, participants: A parallel-group, open-label, randomised controlled trial in patients who are in need for a peripherally inserted central catheter insertion in one teaching hospital in Belgium. The follow-up lasted 180 days or until catheter removal, whatever came first. A computer generated table was used to allocate devices. Randomised patients were 105 adults (StatLock, n=53; SecurAcath, n=52) and primary analysis was based on all patients (n=92) with time measurements (StatLock, n=43; SecurAcath, n=49).

Interventions: StatLock which has to be changed weekly versus SecurAcath which could remain in place for the complete catheter dwell time.

Main outcome measure: Needed time for the dressing change at each dressing change (SecurAcath) or at each dressing change combined with the change of the securement device (StatLock).

Results: Median time needed for dressing change was 7.3 min (95% CI 6.4 min to 8.3 min) in the StatLock group and in the SecurAcath group 4.3 min (95% CI 3.8 min to 4.9 min) ($P<0.0001$). The time in the SecurAcath group was reduced with 41% (95% CI 29% to 51%). Incidence rates of migration, dislodgement and catheter-related bloodstream infection were comparable across groups. Pain scores were higher with SecurAcath than with StatLock at insertion ($P=0.02$) and at removal ($P<0.001$) and comparable during dressing change ($P=0.38$) and during dwell time ($P=0.995$). User-friendliness was scored at insertion and removal. All statements regarding the user-friendliness were scored significantly higher for StatLock than for SecurAcath ($P<0.05$). Only for the statement regarding the recommending routine use of the device, which was asked at removal, no difference was found between the two devices ($P=0.32$).

Conclusion: Use of SecurAcath saves time during dressing change compared with StatLock. Training on correct placement and removal of SecurAcath is critical to minimise pain.

Trial registration number: NCT02311127; Pre-results.

Full Text

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Reference:

Goossens, G.A., Grumiaux, N., Janssens, C., Jérôme, M., Fieuws, S., Moons, P., Stas, M. and Maleux, G. (2018) SecurAstaP trial: securement with SecurAcath versus StatLock for peripherally inserted central catheters, a randomised open trial. *BMJ Open*. 8:e016058.

[doi:10.1136/bmjopen-2017-016058](https://doi.org/10.1136/bmjopen-2017-016058)

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