



To document the evolution of the Peripherally Inserted Central Catheter service at Princess Margaret Hospital, now Perth Children’s Hospital” Hauser et al (2019).

Abstract:

**BACKGROUND:** To document the evolution of the Peripherally Inserted Central Catheter service at Princess Margaret Hospital, now Perth Children’s Hospital.

**METHODS:** Between January 2012 and June 2013 patients referred to Anaesthesia for a Peripherally Inserted Central Catheter were prospectively followed up. A repeat audit was conducted between January 2015 and June 2016, following the introduction of a number of measures aimed at improving the service.

**RESULTS:** Audit 1: 200 Peripherally Inserted Central Catheter insertions were attempted in 138 patients. Successful placement occurred in 86% of cases (172/ 200). The median age of patients was 7,71 years (range 0 – 20). The percentage of Peripherally Inserted Central Catheter remaining in-situ for the predicted duration was 49/ 172 (28,5%). Complications were documented in 78/ 172 (45,4%) of cases. Audit 2: 310 Peripherally Inserted Central Catheter placements were attempted in 244 patients. Successful insertion rate was 95,5% (296/ 310). The median age of patients was 5.3 years (range 0.0 – 18.72). The percentage remaining in-situ for the predicted duration was 145/ 296 (49%). Complications were documented in 67/ 296 (22,6%) of cases.

CONCLUSION: The evolution of the Peripherally Inserted Central Catheter service at our free standing Tertiary Paediatric Hospital is well documented following these two audits. The introduction of a dedicated Anaesthesia led Peripherally Inserted Central Catheter service at our center has resulted in improved insertion success rates and a reduction in complications.

## You may also be interested in...

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Mid-thigh femoral Peripherally Inserted Central Catheter placement  
Prevalence of idle peripherally inserted central catheters

### Reference:

Hauser, N.D., Chen, Y.P. and von Ungern-Sternberg, B.S. (2019) A prospective journey of the peripherally inserted Central Catheter service, at a Tertiary Paediatric centre in Western Australia. *Acta Anaesthesiologica Scandinavica*. December 30th. doi: 10.1111/aas.13539. .

