

“PICC is an alternative to CP for intravenous antibiotherapy in CF patients” Betegnien et al (2014).

Reference:

Betegnien, A.L., Cracowski, C., Bedouch, P., Segond, C., Robein-Dobremez, M.J., Pin, I. and Allenet, B (2014) Peripherally inserted central catheter antibiotic therapy for cystic fibrosis patients.

Revue des Maladies Respiratoires. 31(9), p.822-830. .

Abstract:

**INTRODUCTION:** Peripherally inserted central catheters (PICC) are more and more used for intravenous antibiotic infusions in cystic fibrosis (CF) patients in the Grenoble area (France). The aim of this study was to assess the use of this technique in this indication.

**METHODS:** 1. Retrospective evaluation of 102 consecutive PICC insertions over 3 years and the incidence of adverse events during the therapy. 2. Prospective evaluation of 12 patients' satisfaction and their nurses over a 3-month period. 3. Comparative analysis of single domiciliary treatment costs using PICC versus peripheral catheter (PC).

**RESULTS:** 102 PICC insertions were attempted in 31 patients. Seven failures and 7 complications occurred during the treatment requiring removal of the PICC, i.e. an overall success rate of 86.2% (88/102). Pain during PICC introduction was 4.2/10 (visual analogical scale). Mean satisfaction levels during therapy were 9.3/10 for patients and 8.7/10 for nurses. Compared with PC, all the patients said that PICC was “more comfortable”. Differential costs of treatment with PC and with PICC at home were estimated at 57.15€ and 590.16€ respectively.

**CONCLUSION:** PICC is an alternative to CP for intravenous antibiotherapy in CF patients, providing better safety and comfort. PICC use should be promoted in this indication.

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