

“Peripherally inserted central catheters (PICCs) are increasingly used in patients with cystic fibrosis (CF) or with non-CF bronchiectasis, but little data exist on catheter-related complications in this setting” Dupont et al (2015).

Reference:

Dupont, C., Gouya, H., Panzo, R., Hubert, D., Correias, J.M., Agrario, L., Chapron, J., Honoré, I., Kanaan, R., Legmann, P., Dusser, D., Vignaux, O. and Burgel, P.R. (2015) Complications of peripherally inserted central catheters in adults with cystic fibrosis or bronchiectasis. The Journal of Vascular Access. February 4th. .

Abstract:

**BACKGROUND:** Peripherally inserted central catheters (PICCs) are increasingly used in patients with cystic fibrosis (CF) or with non-CF bronchiectasis, but little data exist on catheter-related complications in this setting.

**METHODS:** Prospective follow-up of consecutive PICCs inserted for intravenous (IV) antibiotics in adults with CF or with non-CF bronchiectasis at Cochin Hospital (Paris, France).

**RESULTS:** Between March 2009 and December 2011, 182 PICCs were prescribed in 117 adults (67 CF and 50 non-CF patients). Ultrasound-guided placement of catheter was successful in 174/182 (95.6%) procedures; no insertion complication occurred. The mean  $\pm$  SD catheter dwell time was  $15 \pm 9$  days. No catheter-associated bloodstream infection occurred; main complications were symptomatic upper limb deep vein thrombosis (2%), catheter obstruction (18%) and persistent pain after catheter insertion (18%). Patients' satisfaction was high and PICC could be used to perform antibiotic courses in most patients.

**CONCLUSIONS:** PICCs were generally safe for performing IV antibiotic courses in patients with CF or non-CF bronchiectasis, but prolonged pain and/or catheter obstruction occurred in approximately 20% of cases.

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