

Do anti-microbial and anti-thrombogenic peripherally inserted central catheter (PICC) materials prevent catheter complications?

42,526 Patients with a PICC

PICC Materials

- **39,806 plain polyurethane**
- **2,263 incorporated anti-microbial materials**
- **921 incorporated anti-thrombogenic materials**



Where were PICCs Inserted?

- **66.0% General Ward**
- **28.4% Critical Care/ICU**
- **3.3% Oncological Settings**

Findings



- Anti-microbial PICCs were not associated with reduction in infection
- Anti-thrombogenic PICCs were not associated with reduction in thrombosis and occlusion

Guidance aimed at informing use of these devices, balancing benefits against cost, appear necessary.

