“The purpose of this study is to analyze the related complications and to evaluate effect of a comprehensive intervention on long-term PICCs.” Chen et al (2014).

Reference:


Click To Tweet

Abstract:

Background: Peripherally inserted central venous catheters (PICCs) have been increasingly utilized in treating patients in intensive care. The purpose of this study is to analyze the related complications and to evaluate effect of a comprehensive intervention on long-term PICCs.

Materials and Methods: We selected 217 and 243 cases before and after comprehensive intervention respectively from the department of radiotherapy in our hospital. Various possible factors affecting PICCs insertions and maintenance were analyzed. A quality control
circle was formed for nursing care. The comprehensive intervention was performed both on catheter insertion and post-PICCs care. Complication rates were compared before and after the intervention.

Results: The duration for PICCs was 90 days. In the control group (before intervention), the complications were as follows: Tube feeding difficulties (23.5%), catheter dislodgment (23.5%), infection (17.6%), catheter obstruction (17.6%), puncture failure (5.9%), allergy (5.9%), and pain (5.9%). The incidence of unplanned extubations was 7.8%. The incidence of complications was significantly decreased in the test group (after intervention). Moreover, one episode of catheter obstruction (5.9%) and one episode of allergy (5.9%) were found ($P < 0.01$) in this study.

Conclusion: Comprehensive intervention programs effectively reduce the incidence of complications in long-term PICCs lines.

Other intravenous and vascular access resources that may be of interest (External links - IVTEAM has no responsibility for content).
