Factors that influence implantable port catheter tip location movement


Reference:

Factors that influence implantable port catheter tip location movement http://ctt.ec/67deD+
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Abstract:

Purpose: To determine the characteristics that predict catheter tip movement with positional changes in patients with left-sided, internal jugular vein (IJV) implantable venous access ports.

Methods: A retrospective review revealed 264 patients with left IJV ports placed at one academic institution from 2008 to 2013 with follow-up upright chest radiographs. Demographic information was recorded and anatomic measurements were made on both
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Procedural fluoroscopic imaging and upright chest radiographs. Multivariate regression analysis was performed to determine which factors had statistically significant relationships with catheter tip movement distance.

Results: Mean catheter tip movement was 1.49 ± 1.97 cm. There was a statistically significant positive relationship between catheter tip movement distance and age (p = 0.03), body mass index (BMI) (p = 0.02), innominate vein angle (p<0.01) and dual- compared to single-lumen ports (p = 0.02). Port pocket location, venous access site and gender did not demonstrate statistical significance.

Conclusions: The factors associated with increased positional catheter tip movement for left IJV ports include patient age, BMI, innominate vein angle and dual- vs single-lumen port. This information can be useful in determining initial placement position and avoiding complications associated with catheter malposition.

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