

ECG-aided tip localization of PICC is accurate and safe, and is worth clinically recommending" Liu et al (2015).

Abstract:

OBJECTIVE: To evaluate ECG-aided tip localization of peripherally inserted central catheter (PICC) in the patients with cancer.

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METHODS: Between September and December 2014, 170 patients undergoing PICC were divided into observation group and control group (each group with 85 patients). In observation group, patients received ECG-aided tip localization of PICC. In control group, PICC was performed with conventional method. After PICC was performed, all patients took orthophoria chest radiograph (OCR) to check whether the tip position of PICC was appropriate. Finally, successful rate of the first PICC was compared between the two groups.

RESULTS: In observation group, OCR showed that the tip of PICC was located in middle and low one-third of superior vena cava in 85 patients. In control group, OCR showed that the tip of PICC was located between superior vena cava and right atrium in 75 patients. The successful rate of the first PICC was significantly higher in observation group than in control group ($P < 0.05$).

CONCLUSION: ECG-aided tip localization of PICC is accurate and safe, and is worth clinically recommending.

Reference:

Liu, Y.J., Dong, L., Lou, X.P., Miao, J.H., Li, X.X., Li, X.J., Li, J., Liu, Q.Q. and Chang, Z.W. (2015) Evaluating ECG-aided tip localization of peripherally inserted central catheter in patients with cancer. International Journal of Clinical and Experimental Medicine. 8(8), p.14127-9. eCollection 2015.

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