

To observe and analyze the application effect of ultrasound-guided modified Seldinger technique (MST) in Peripherally Inserted Central Catheter (PICC) catheterization” Wang et al (2016).

Abstract:

OBJECTIVE: To observe and analyze the application effect of ultrasound-guided modified Seldinger technique (MST) in Peripherally Inserted Central Catheter (PICC) catheterization.

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METHODS: Two hundred patients treated with PICC catheterization from January 2013 to December 2015 were selected and randomly divided into two groups, namely, observation group and control group. The observation group adopted ultrasound-guided MST for catheterization while the control group applied traditional puncture technique for catheterization. Then efficacy of catheterization, success rate of catheterization and incidence rates of complications were compared between two groups.

RESULTS: Various indicators of catheterization effects of the observation group were better than those of the control group, and the differences were statistically significant ($P < 0.05$); one-time success rate of puncture and catheterization of the observation group was both higher than the control group ($P < 0.05$);. Moreover, the incidence of puncture points bleeding, phlebitis and thrombus were all lower than those of the control group ($P < 0.05$).

CONCLUSION: Implementing PICC catheterization based on ultrasound-guided modified Seldinger puncture technique can increase success rate of puncture, improve the effect of catheterization, lower incidence rate of adverse effects of catheterization and improve satisfaction and comfort level of patients.

Reference:

Wang, Q., Wang, N. and Sun, Y. (2016) Clinical effect of peripherally inserted central catheters based on modified seldinger technique under guidance of vascular ultrasound.



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