

"This study aimed to compare the application value of midline catheter and peripherally inserted central catheter (PICC) in patients with gastrointestinal tumors during the perioperative period" Tao et al (2019).



Abstract:

PURPOSE: This study aimed to compare the application value of midline catheter and peripherally inserted central catheter (PICC) in patients with gastrointestinal tumors during the perioperative period. **METHODS:** 487 patients with gastrointestinal tumors admitted to Qingdao Municipal Hospital from August 2016 to September 2018 were selected and retrospectively analyzed. 279 patients treated with midline catheters during the treatment were regarded as the study group, and another 208 patients treated with PICC were regarded as the control group. The incidence of perioperative adverse reactions, the cost of daily catheter maintenance and the the total cost of catheter indwelling were compared between the two groups. Meanwhile, each patient was investigated for treatment satisfaction at the time of discharge. **RESULTS:** The total incidence of adverse reactions in the study group was significantly lower than that in the control group ($p=0.0001$). The catheter indwelling duration in the study group was significantly shorter than that in the control group ($p<0.001$). The 24-h drainage volume in the study group was significantly higher than that in the control group ($p<0.001$). The average cost of daily maintenance and total cost of catheter indwelling in the study group were significantly lower than those in the control group ($p<0.001$). The satisfaction rate in the study group (69.53%) was significantly higher than that in the control group (51.92%) ($p<0.001$). The dissatisfaction rate in the study group (3.23%) was

significantly lower than that in the control group (15.38%) ($p < 0.001$). **CONCLUSION:** Compared with PICC, the perioperative application of midline catheter in patients with gastrointestinal tumors can effectively reduce catheter-related adverse reactions, with higher medical economic benefits and satisfaction rate, and is worthy of clinical promotion and application. Full Text

Reference:

Tao, F., Wang, X., Liu, J., Li, J. and Sui, F. (2019) Perioperative application of midline catheter and PICC in patients with gastrointestinal tumors. *Journal of B.U.ON.* 24(6), p.2546-2552.

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