

## عنوان مقاله:

Peripherally inserted central catheter complications versus midline catheter complications: A systematic review

## محل انتشار:

مجله گزارش های پرستاری در عمل بالینی، دوره 1، شماره 2 (سال: 1402)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

The purpose of this systematic study is to compare the risks associated with peripherally inserted central catheters (PICC) and midline catheters (MC). International electronic databases like Scopus, PubMed, and Web of Science were searched systematically from the earliest date to December ۱۳, ۲۰۲۲, using keywords extracted from Medical Subject Headings like "Peripheral catheterization", "Peripherally inserted central catheter", and "Midline catheter". Additionally, Iranian databases like Iranmedex were looked up. The cross-sectional study appraisal tool (AXIS tool) was used to evaluate the quality of the studies that were a part of this review. In total, ۱۲,۵۲۶ patients participated in five cross-sectional studies. Of the participants, ۵۲.۳۳% were male. Participants had ۷,۵۹۴ PICCs and ۶,۷۱۲ MCs. The complications of PICC in patients included deep vein thrombosis (DVT) (۲.۳۴%), occlusion (۴.۰۲%), infection (positive culture) (۲.۰۲%), leakage (۰.۵۲%), pain (۳.۰۹%), dislodgment (۲.۵۴%), phlebitis (۰.۷۳%), thromboembolism (۰.۱۲%), bleeding (۳.۰۹%), fracture/broke (۱.۰۳%), nonpatent (۱.۴۶%), and local event (۱۰.۰۰%). Also, MC complications included DVT (۳.۹۱%), occlusion (۲.۶۵%), infection (positive culture) (۰.۹۶%), leakage (۴.۴۰%), pain (۲.۷۰%), dislodgment (۵.۹۶%), phlebitis (۱.۶۸%), infiltration (۵.۹۱%), thromboembolism (۱.۳۰%), bleeding (۱.۷۳%), fracture/broke (۰.۸۶%), nonpatent (۸.۵۰%), edema (۰.۵۰%), and local event (۱۰.۹۷%). The rate of infection and occlusion was higher in PICC. While the rate of thrombosis was higher in MC. Therefore, the healthcare team, especially nurses, can reduce the rate of complications by carefully preparing the skin, using aseptic techniques, and taking care of the catheter site.

## کلمات کلیدی:

Peripheral Catheterization, Peripherally Inserted Central Catheter, Complications, Systematic Review

## لینک ثابت مقاله در پایگاه سیویلیکا:

