The purpose of this study was to investigate whether a magnetic tracking and electrocardiogram-based tip confirmation system (TCS) (Sherlock 3CG Tip Confirmation System; Bard, Covington, GA) permits safe and correct placement of a peripherally inserted central catheter (PICC) in the pediatric population (Rosche and Stehr, 2018).

A total of 144 PICCs were placed using the TCS. After excluding participants for various reasons, 112/121 (92.56%) of PICCs were appropriately placed using the TCS. The TCS confirmed tip location an average of 7 to 18 minutes faster than radiographic imaging. There were no complications associated with the insertion of the PICCs using the TCS.

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