

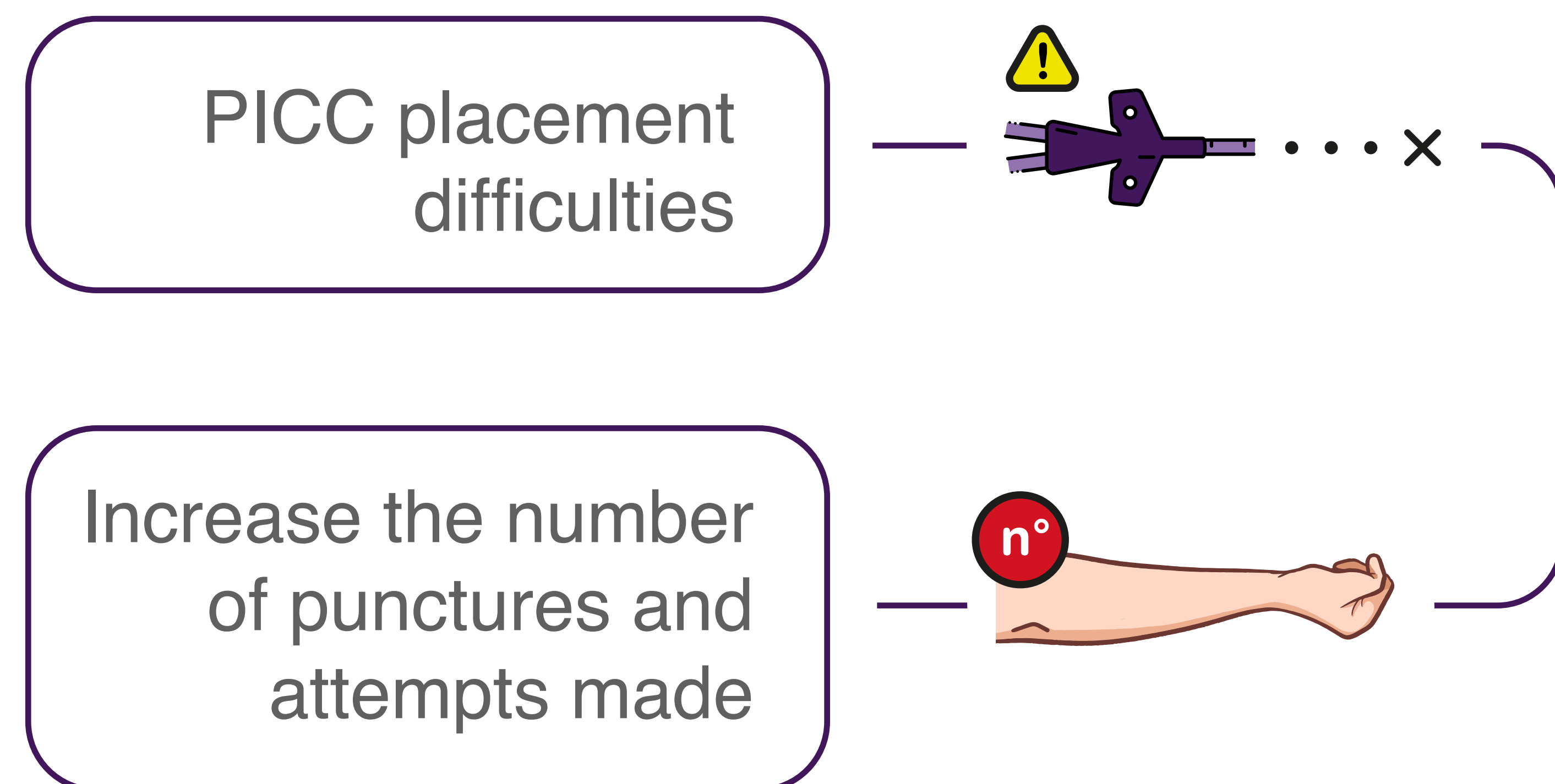


Correlation between the difficulty of Peripherally Inserted Central Catheter placement and number of attempts: cross-sectional study in Brazil

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Background and objective



Aim: analyze the correlation between the difficulty of PICC placement and the number of attempts.

Methods

- ✈ Cross-sectional with medical records data;
- ✈ All PICC placements of patients ≥ 18 years from January 1st to December 31th;
- ✈ Tertiary teaching hospital in Brazil;
- ✈ Difficulty in PICC placement (yes or no) included agitation, venous fragility extubation multiple previous punctures, edema and difficulty in progression;
- ✈ Number of attempts: numeric; Correlation: Spearman coefficient (SPSS).

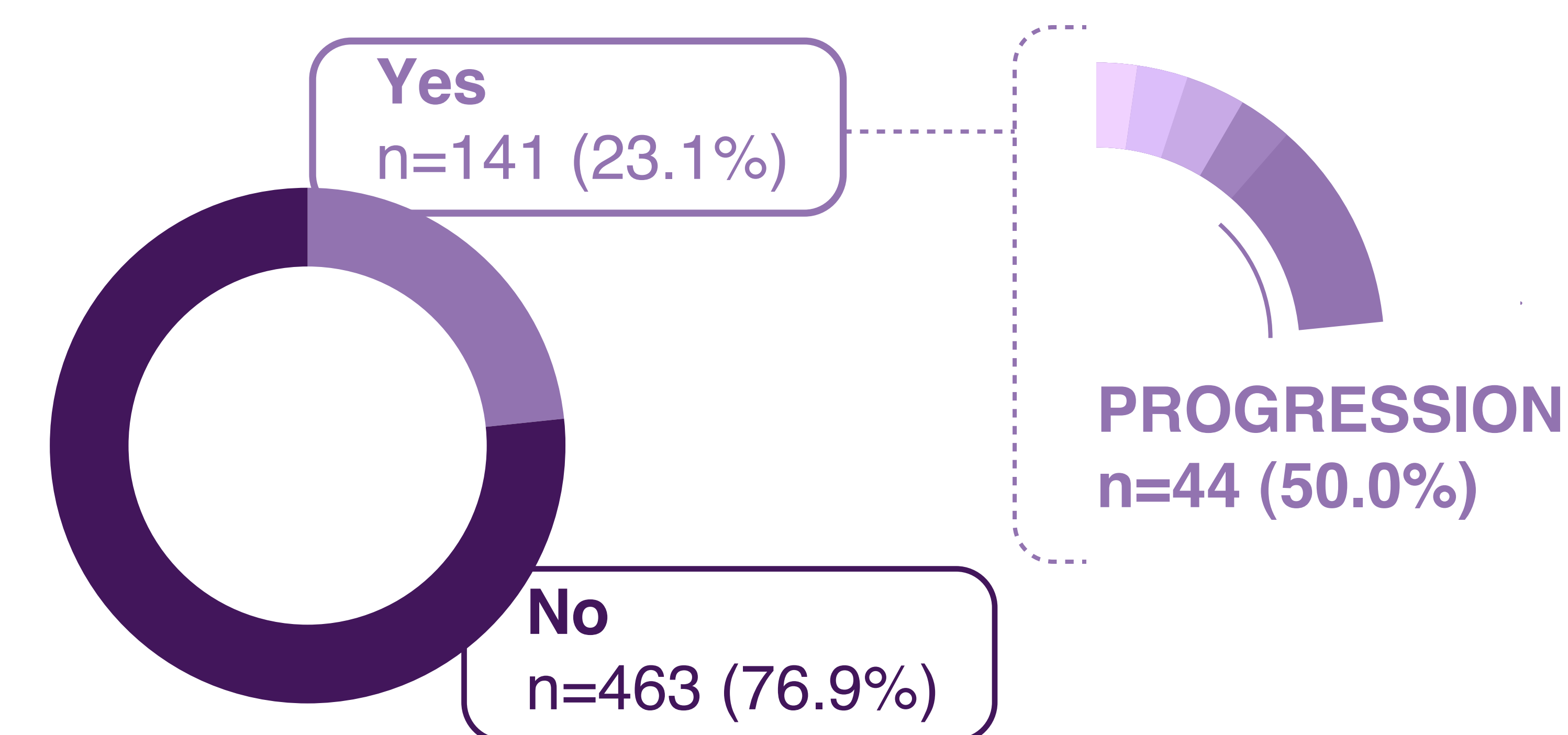
Results

Sample = 606 patients (median age of 57 years);

667 patients, 61 (9.14%) were excluded (age < 18 years);



Graphic 1 – Description of the difficulty in PICC placement, Brazil, 2023



Source: Author

Significant correlation between the difficulty in PICC placement and number of attempts (**0.406; $p < 0.001$**).

Conclusions

The difficulty in PICC placement correlated with increased attempts in the procedure. This study may contribute to developing patient safety protocols