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Assessment of the acceptable length of Right internal jugular central venous catheters.

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TITLE PAGE

TITLE : Assessment of the acceptable length of Right internal jugular central venous catheters.

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Abstract:

Background: Central venous catheters have been used in various lengths based on the height of the patient or predetermined lengths. This study compared the different lengths of right IJV central venous catheters to determine the better length for average heights of Indian population.

Patients and Methods: This was a prospective observational study done on 148 patients with average heights of Indian population (150 ± 10 cm) who are scheduled for right IJV central venous catheters are a part of this study. The patients are divided into 3 group (10,13,15 cm). Three different lengths of catheters are inserted. An anteroposterior chest xray was taken for the patients and carina was taken as the acceptable landmark. The outcome measured between the three groups is need for repositioning. Statistical analysis was done using Chi square test, Fisher's exact test .

Results: 10 cm catheters were considered acceptable in terms of less incidence of repositioning and statistically significant with p value of 0.0001 with respect to other lengths (13,15cm) for heights of average Indian population.(160 ± 10 cm)

CONCLUSION: 10 cm catheters are ideal length of catheters for average Indian population.

KEY WORDS: central venous catheters , right internal jugular vein, repositioning of catheters.