

**The findings of this study demonstrated that catheter fixation with skin fold could be an appropriate technique in comparison with current conventional method. However, further studies on other possible and unpredictable complications of this technique is required” Khavanin Zadeh et al (2016).**

Abstract:

Background: Central Venous Catheters (CVCs) are used not only as a tool to access to central venous system, but also for hemodynamic monitoring, parenteral nutrition, chemotherapy and hemodialysis. The use of CVCs is associated with some complications notably infections that are troublesome both to patient and physician. We conducted this study to examine catheter fixation with skin fold technique and to evaluate risk of catheter infection in this method and compare it to conventional technique.

ReTweet if useful... Unconventional method of central venous catheter securement described in this article [@ivteam #ivteam](https://ctt.ec/iuMn_+)

Click To Tweet

Methods: This study is a controlled clinical trial (IRCT: IRCT2015081723229N1) and all cases are patients over 18 years, admitted to Hasheminejad Kidney Center from 2011 to 2012, who needed an internal jugular venous catheter for hemodialysis. Finally, two hundred and twenty two patients entered the study. We used chi square test and logistic regression for data analysis. P-value less than 0.05 was considered significant.

Results: In this study Mean±SD age of patients was 54.50±15.71 years. Mean ±SD ages of patients in the case and control group were 54.56±16.43 and 54.42±14.84 years, respectively. The rate of catheter infection significantly decreased with skin fold technique: Five patients (3%) in case group and 13 patients (16%) in control group had infection (p=0.002).

Conclusion: The findings of this study demonstrated that catheter fixation with skin fold could be an appropriate technique in comparison with current conventional method.

However, further studies on other possible and unpredictable complications of this technique is required.

Reference:

Khavanin Zadeh, M., Nouri, H., Moradi, Y., Reza, L., Joodat, R. and Arya, S. (2016) Skin fold technique for central venous catheter fixation; Comparison with conventional method for postoperation infections. Medical journal of the Islamic Republic of Iran. 30:419. eCollection 2016.

**Thank you to our partners for supporting IVTEAM**