

Evaluation of Coagulation State in Patients with End Stage Renal Disease (ESRD) by Thromboelastogram (TEG)

Authors : Mohammad Javad Esmaeili

Abstract : Background: Coagulopathy is one of the complications with end stage renal disease with high prevalence in the world. Thromboelastogram is a dynamic test for evaluation of coagulopathy and we have compared our patient's coagulation profiles with the results of TEG. Material and methods: In this study 50 patients with ESRD who were on regular hemodialysis for at least 6 months was selected with simple sampling and their coagulation profile was done with blood sampling and also TEG was done for every patient. Data were analyzed with SPSS and $P < 0.05$ consider significant. Results: Protein s, Protein c and Antithrombin III deficiency was detected in 32%, 16% and 20% of patients and activated protein c resistance was abnormal in 2% of patients. In TEG, R time in 49% and K in 22/5% of patients was lower than normal and a-angle in 26% and maximum amplitude in 36% of patients was upper than normal (Hypercoagulable state). PS with R and ATIII with K have correlation. Conclusion: R time and K in TEG can be a suitable screening test in patients with suspicious to PS and ATIII deficiency.

Keywords : thromboelastography, chronic kidney disease, Coagulating disorder, hemodialysis

Conference Title : ICA 2023 : International Conference on Anaesthesia

Conference Location : Paris, France

Conference Dates : December 25-26, 2023