The effect that ipsilateral tunneled dialysis catheters (TDC) have on arteriovenous fistula (AVF) maturation is unclear” Kim et al (2019).

Abstract:

OBJECTIVE: The effect that ipsilateral tunneled dialysis catheters (TDC) have on arteriovenous fistula (AVF) maturation is unclear. We sought to define this association by comparing AVF maturation rates in patients with contralateral TDC with those with ipsilateral TDC.

METHODS: A review of a prospectively maintained database including all AVF creation procedures between 2009 and 2016 was performed. All patients with a TDC in place at the time of AVF creation were included in this study. Clinical and functional maturation rates were compared in patients with contralateral vs ipsilateral dialysis catheters. Categorical variables were analyzed by a two-tailed Fisher’s exact test. A P value of less than .05 was considered statistically significant.

RESULTS: There were 187 patients who underwent fistula creation with a TDC in place during the study period. Of those, 137 patients had a contralateral TDC and 50 had an ipsilateral TDC. A greater proportion of contralateral patients were first-time dialysis access patients at the time of index AVF creation (67% vs 48%; P = .03). There was no difference in clinical (contralateral 73% vs ipsilateral 78%; P = .57) and functional (contralateral 64% vs ipsilateral 74%) maturation rates between the two groups. The rate of TDC removal after AVF maturation was also not different (contralateral 64% vs ipsilateral 72%; P = .30). There was also no statistical difference in the rates of thrombosis at less than 30 days, outflow stenosis, central stenosis, and steal syndrome.

CONCLUSIONS: There was no association between TDC sidedness and AVF maturation or early failure in our cohort. Planning for AVF creation should not be influenced by attempts to avoid an ipsilateral TDC.

You may also be interested in...

Patency rate of Arteriovenous Fistula created for hemodialysis
Vascular access outcomes in patients initiating dialysis with a tunneled catheter
Optimal dialysis vascular access for the elderly

Reference: