Ethanol lock therapy (ELT) with systemic antimicrobial therapy is a promising therapy for catheter-related infection (CRI)” McGrath et al (2017).

Abstract:

BACKGROUND: Ethanol lock therapy (ELT) with systemic antimicrobial therapy is a promising therapy for catheter-related infection (CRI). The impact of ELT timing on treatment efficacy and costs is unknown.

PROCEDURES: A prospective study was conducted in the Hematology/Oncology Unit at the Children’s Hospital of Michigan. Patients with suspected CRI were randomized to Preemptive ELT arm or Rescue ELT arm after positive culture.

RESULTS: Five cases in Preemptive arm and 9 in Rescue arm had a confirmed CRI. All cases cleared infection with line salvage with no adverse events due to ELT or recurrence within 14 days. Our data showed a trend toward 36% reduction in average hospital costs and 40% reduction in average length of stay in Preemptive arm over Rescue arm.

CONCLUSION: Although a small study, our data on preemptive ELT with systemic antimicrobial therapy suggest a potentially important treatment strategy in reducing length of stay as well as hospital costs.

Reference:


Thank you to our partners for supporting IVTEAM