



This study describes the incidences of CRCs in an adult IF cohort over 40 years. It illustrates the evolution and consequences of CRCs, their association to demographic characteristics, and potential risk factors in an effort to provide the rationale for preventive precautions to the relevant patients with IF at risk” Brandt et al (2018).

Abstract:

BACKGROUND/AIMS: Catheter-related complications (CRCs) cause mortality and morbidity in patients dependent on parenteral support at home (HPN) due to intestinal failure (IF). This study describes the incidences of CRCs in an adult IF cohort over 40 years. It illustrates the evolution and consequences of CRCs, their association to demographic characteristics, and potential risk factors in an effort to provide the rationale for preventive precautions to the relevant patients with IF at risk.

METHODS: All patients with IF discharged with HPN from 1970-2010 were included. Patient and treatment characteristics were extracted from the Copenhagen IF database. The incidences were given per 1000 central venous catheter (CVC) days.

RESULTS: The 1715 CRCs occurred in 70% of the 508 patients with IF (56% of the 2191 CVCs). The incidence of catheter-related bloodstream infections (CRBSIs) was 1.43. Higher

age, HPN administration by community home nurses, and prior CRBSIs significantly raised the hazard for CRBSIs. In the 1970s, catheters were generally replaced following CRBSIs, whereas catheter salvage was the norm in the 2000s. The incidences of mechanical complications, tunnel infections, and catheter-related venous thromboses were 0.80, 0.25, and 0.11, respectively. The overall CRC incidence was 2.58, decreasing the first 3 decades but peaking in the last (2.84). The deaths related to CRCs were low (0.018).

CONCLUSION: Even in an experienced IF center of excellence, the incidence of CRCs increased over the 4 decades. This increase could be explained by the expansion of the indication of HPN to a more elderly and frail patient population.

Reference:

Brandt, C.F., Tribler, S., Hvistendahl, M., Naimi, R.M., Brøbech, P., Staun, M. and Jeppesen, P.B. (2018) Home Parenteral Nutrition in Adult Patients With Chronic Intestinal Failure: Catheter-Related Complications Over 4 Decades at the Main Danish Tertiary Referral Center. *JPEN. Journal of Parenteral and Enteral Nutrition*. 42(1), p.95-103.

doi: 10.1177/0148607116678766.

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