Cochrane Database of Systematic Reviews - - Cochrane Review

Totally implantable vascular access devices for cystic fibrosis

Code: CD004111 **Year:** 2012 **Date:** 2012 - updated: 10 APR 2012 **Author:** A-Rahman Amel KM

Study design (if review, criteria of inclusion for studies)

Randomised and quasi-randomised controlled trials which compared the use of totally implantable venous access devices in people with cystic fibrosis to other means of vascular access, trials which compared the different types of these devices against each other and trials which assessed strategies to reduce complications of these devices.

Participants

Participants with CF of any age and severity, diagnosed clinically by sweat testing or genetic analysis.

Interventions

Totally implantable vascular access devices

Outcome measures

Primary outcomes 1. Duration of survival of TIVAD 2. Assessment of complications associated with TIVAD (such as thrombosis, embolism, infection, pneumothorax, air embolism and mechanical problems)

Main results

No trials were included in this review.

Authors' conclusions

Totally implantable vascular access devices are widely used in people with cystic fibrosis to provide intermittent venous access for therapeutic infusions. Reports of their use in people with cystic fibrosis suggest that they are safe and effective. These reports also suggest that certain interventions might reduce the risk of complications; however, it is disappointing that these reports have not been assessed by randomised controlled trials. This systematic review identifies the need for a multicentre randomised controlled trial assessing both efficacy and possible adverse effects of totally implantable venous access devices in cystic fibrosis.

http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD004111.pub2/abstract

See also

A-Rahman AK, Spencer D. Totally implantable vascular access devices for cystic fibrosis. Cochrane Database of Systematic Reviews 2012, Issue 7 Art. No.: CD004111. doi: 10.1002/14651858.CD004111.pub2

Keywords

Anti-Bacterial Agents; pharmacological_intervention; Catheterization- Central Venous; Catheterization- Peripheral; Intravenous; Continuous; non pharmacological intervention - devices OR physiotherapy; totally implantable vascular access device; Bacterial Infections; Respiratory Tract Infections; Respiratory Tract Diseases; Infection; Venous Thrombosis; Cardiovascular diseases;