

“Here, we prospectively examined the frequency of CV port-related infections when the disinfectant was changed from 10% povidone iodine to 1% chlorhexidine ethanol or 70% ethanol.” Sato et al (2014).

Reference:

Sato, J., Kumagai, M., Kato, K., Akahane, A., Suzuki, M., Kashiwaba, M., Sone, M. and Kudo, K. (2014) Subcutaneous Implantation Type Central Venous Port Management in Patients with Malignant Tumors Effect of Different Antiseptic Agents on Central Venous Port-Related Infection. Gan To Kagaku Ryoho. 41(8), p.981-5. .

Review of antiseptic agents for central venous implanted port management  
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Abstract:

Subcutaneous implantation type central venous ports (CV ports) are used in chemotherapy. Here, we prospectively examined the frequency of CV port-related infections when the disinfectant was changed from 10% povidone iodine to 1% chlorhexidine ethanol or 70% ethanol. The subjects were patients with malignant tumors, who had newly been implanted with CV ports. We examined CV port-related infections at 1 week after CV port implantation and every 2 weeks thereafter, following sterilization upon insertion of a Huber needle to the CV port. CV port evulsion due to CV port-related infection was noted in 3 patients (4.8%) in whom 15% chlorhexidine ethanol was used (n=62) and in 2 patients (3.3%) in whom 70% ethanol was used (n=60). Infection rates per 1,000 days of CV port use were 1.48% and 1.01%, respectively. Thus, the outcomes of sterilization using 1% chlorhexidine ethanol and 70% ethanol did not differ significantly from those on using 10% povidone iodine for sterilization, based on preliminary results at our institution (3 of 59 patients [5.1%] had port evulsion due to CV port-related infection and the infection rate per 1,000 days of CV port use was 1.47%, Akahane et al, 2012). Chlorhexidine ethanol and ethanol are very convenient to use because they dry quickly and do not need discoloration. Accordingly, chlorhexidine ethanol and ethanol might be useful in CV port management.

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