A systematic search of databases identified 35 clinical practice guidelines relating to the prevention of CVAD failure.

These guidelines were reviewed by the established group of cancer nurses/nurse researchers who volunteered to participate in the existing CNSA CVAD guidelines review. All guidelines were reviewed by at least two members of the group and where consensus was not reached the guidelines were reviewed by another member. Where required, consensus was reached by verbal discussion. Review criteria (below) were developed for the purpose of this project and agreed by the group. Each guideline was evaluated using these criteria. It was noted that although few guidelines fully met the criteria there were a significant number that still contained useful and clinically relevant information. Reasons for not endorsing guidelines were also decided by the group.

Three guidelines were endorsed for all clinical criteria, eight were partially endorsed and 24 were not endorsed. The guidelines are displayed in tables according to level of endorsement. They are also displayed as per clinical criteria i.e. those endorsed for each clinical procedure.

**Endorsement criteria**

- The guideline has been published in a journal or on a website and is freely available
- The process of literature review is explicitly stated e.g. years of publication, Key search words, criteria for selection of papers generated by the search process
- Any commercial funding was through an unrestricted educational grant and all members of the guidelines committee declare potential conflict of interest
- There is evidence that the guideline will be regularly updated in the future (e.g. a specified timeframe/year or a date etc.)
- Guidelines published in languages other than English must have been translated into English prior to review
- Does the guideline cover dressings, securement and skin preparation?
- Does the guideline cover complications and troubleshooting (including care of the immunocompromised patient and responding to patients with CRBSI's)?
- Does the guideline cover accessing (including implanted venous ports) flushing, locking and blood taking?
- Does the guideline cover device selection, pre insertion care and patient education?
- Do you recommend endorsement?
- Comments
### Endorsed Guidelines

<table>
<thead>
<tr>
<th>Guideline</th>
<th>Search strategy</th>
<th>Review date</th>
<th>Criteria</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCO 2013</td>
<td>☑</td>
<td>☑ Annually by co-chairs</td>
<td>Dressings ☑ Securement ☑ Skin preparation</td>
<td>Prevention and management of CRBSI ☑ Thrombosis ☑ Flushing ☑ Locking ☑</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Selection in relation to CRBSI ☑ Clinical care bundle for insertion Some patient education</td>
</tr>
<tr>
<td>epic 3 2014</td>
<td>☑</td>
<td>☑ review 2015, publication 2017</td>
<td>Dressings ☑ Skin preparation ☑</td>
<td>Infection prevention ☑ Accessing ☑ Locking ☑ Flushing ☑ Blood taking ☑</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td>Device selection ☑ patient education ☑</td>
</tr>
<tr>
<td>IVNNZ 2012</td>
<td>☑</td>
<td>☑</td>
<td>Dressings ☑ Securement ☑ Skin preparation ☑</td>
<td>Complications ☑ Troubleshooting ☑ Accessing ☑ Locking ☑ Flushing ☑ Blood taking ☑ Ports ☑</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Device selection ☑ Pre insertion care ☑</td>
</tr>
</tbody>
</table>

ASCO- American Society of Clinical Oncology Central Venous Catheter Care for the Patient with Cancer: ASCO Clinical Practice Guidelines

epic 3- National Evidence-Based Guidelines for Preventing Healthcare-Associated Infections in NHS Hospitals in England

IVNNZ – Intravenous Nursing New Zealand Provisional Infusion Therapy Standards of Practice

Disclaimer

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