

Guidance on the use of ultrasound locating devices for placing central venous catheters

1. Guidance

- 1.1 Two-dimensional (2-D) imaging ultrasound guidance is recommended as the preferred method for insertion of central venous catheters (CVCs) into the internal jugular vein (IJV) in adults and children in elective situations.
- 1.2 The use of two-dimensional (2-D) imaging ultrasound guidance should be considered in most clinical circumstances where CVC insertion is necessary either electively or in an emergency situation.
- 1.3 It is recommended that all those involved in placing CVCs using two-dimensional (2-D) imaging ultrasound guidance should undertake appropriate training to achieve competence.
- 1.4 Audio-guided Doppler ultrasound guidance is not recommended for CVC insertion.

This section (Section 1) constitutes the Institute's guidance on the use of ultrasound locating devices for placing central venous catheters. The remainder of the document is structured in the following way:

| | | | |
|---|--------------------------------------|--|--------------------|
| 2 | Clinical need and practice | 8 | Related guidance |
| 3 | The technology | 9 | Review of guidance |
| 4 | Evidence and interpretation | Appendix A: Appraisal Committee | |
| 5 | Recommendations for further research | Appendix B: Sources of evidence | |
| 6 | Resource impact for the NHS | Appendix C: Information for the public | |
| 7 | Implementation and audit | Appendix D: Technical detail on criteria for audit | |

The full document and a Summary of Evidence are available from our website at www.nice.org.uk or by telephoning 0870 1555 455 and quoting the reference number N0146.

**Arweiniad ar
ddefnyddio
dyfeisiau lleoli
uwchseiniol
ar gyfer gosod
cathetrau
gwythiennol
canolog**

1. Arweiniad

- 1.1 Argymhellir arweiniad uwchseiniol delweddau dau-ddimensiwn (2-D) fel y dull dewisol o osod cathetrau gwythiennol canolog (CVC) i'r wythien yddfodol fewnol (IJV) mewn oedolion a phlant sy'n cael triniaeth ddewisol.
- 1.2 Dylid ystyried defnyddio arweiniad uwchseiniol delweddau dau-ddimensiwn (2-D) yn y rhan fwyaf o amgylchiadau clinigol pan fydd gosod CVC yn angenrheidiol naill ai drwy ddewis neu mewn sefyllfa frys.
- 1.3 Argymhellir y dylai pawb sy'n ymgymryd â gosod CVC gan ddefnyddio arweiniad uwchseiniol delweddau dau-ddimensiwn (2-D) gael hyfforddiant priodol i ennill cymhwyster.
- 1.4 Ni chaiff arweiniad uwchseiniol Dobler dan arweiniad sain ei argymhell ar gyfer gosod CVC.

Mae'r adran hon (Adran 1) yn cynnwys arweiniad y Sefydliad ar ddefnyddio dyfeisiau lleoli uwchseiniol ar gyfer gosod cathetrau gwythiennol canolog. Trefnir gweddill y ddogfen fel a ganlyn:

- | | |
|--|--|
| 2. Angen clinigol ac arfer | 8. Arweiniad cysylltiedig |
| 3. Y dechnoleg | 9. Adolygiad o'r arweiniad |
| 4. Tystiolaeth a dehongliad | Atodiad A: Pwyllgor Arfarnu |
| 5. Argymhellion ar gyfer ymchwil bellach | Atodiad B: Ffynonellau gwybodaeth |
| 6. Goblygiadau i adnoddau'r GIG | Atodiad C: Gwybodaeth i'r cyhoedd |
| 7. Gweithredu ac archwilio | Atodiad Ch: Manylion technegol ar feini prawf ar gyfer archwilio |

Mae crynodeb ar gael yn Gymraeg ac yn Saesneg ar ein gwefan yn www.nice.org.uk neu drwy ffonio 0870 1555 455 a dyfynnu cyfeirnod rhif N0146.

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Technoleg Rhif 49**

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Arolygu**

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