

1. Record Nr.	UNINA9910876781003321
Titolo	Central venous catheters
Pubbl/distr/stampa	Chichester, West Sussex, : Wiley-Blackwell, 2009
ISBN	1-283-20328-6 9786613203281 0-470-75018-9 0-470-31921-6
Descrizione fisica	1 online resource (269 p.)
Collana	Wiley Series in Nursing ; ; v.24
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Disciplina	616.130754 617/.05
Soggetti	Intravenous catheterization Blood-vessels - Cutdown
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Central Venous Catheters; Contents; Contributors; Preface; 1 The history of central venous access; Introduction; The origins of venous access; Venous access and the development of parenteral nutrition; Venous access and chemotherapy; Routes of insertion; Percutaneous infraclavicular subclavian vein catheterisation; A supraclavicular approach to subclavian vein catheterisation; Conclusion; 2 Applied anatomy of the central veins; Introduction; What is a central vein?; Routes of access to a central vein; Anatomical variations of central veins; Where should the catheter tip lie?; Microanatomy Adjacent structuresChoosing the best approach to the best vein; The best approach; Conclusion; 3 Patient examination and assessment: choice of devices; Introduction; Information and informed consent; Choice of anaesthetic techniques; Physical examination and assessment; Vascular assessment; Cardiovascular; Infection issues; Radiological assessment; Laboratory assessments; Conclusion; 4 Catheter design and materials; Introduction; Material differences; Thrombosis: the relative risks between materials; Infection; Catheter design; Insertion techniques; Needle design; Catheter size

Common types of catheters  
Tunnelled cuffed catheters; Apheresis and Haemodialysis catheters; Totally implanted ports; Anchorage devices; Conclusion;  
5 Cannulation of the jugular veins; Introduction; The internal jugular vein; Applied anatomy of the IJV; Insertion techniques; Basic technique for IJV cannulation; Specific considerations; Factors influencing success; Complications; The external jugular vein; Conclusions;  
6 Venous access via the femoral vein; Introduction; Anatomy of the femoral vein; Use of the femoral vein; Vascular access devices for the femoral approach; Landmark technique  
Use of ultrasound  
Technical considerations; Temporary use of the femoral vein; Long-term use of the femoral vein; Catheter tip position; Advantages and disadvantages of femoral venous access; Removal; Conclusion;  
7 Central venous access via the subclavian and axillary veins; Introduction; Applied anatomy; Insertion techniques; Conclusion;  
8 Peripherally inserted central catheters; Introduction; Objectives; Peripherally inserted central catheters; Midline catheters; Patient assessment; Selection of patients; Benefits of PICCs; Consent and patient information; Measurements; Insertion procedures  
Ultrasound  
Power injection; Catheter rupture/damage; Conclusion; Appendix;  
9 Ultrasound-guided venous access; Introduction; Rationale for the use of ultrasound; Limitations of ultrasound guidance; What is the evidence that ultrasound is helpful?; Ultrasound probe selection; Applied ultrasound anatomy; Verification of needle-tip placement; Conclusion;  
10 The role of diagnostic and interventional radiology in the placement and management of central venous catheters; Introduction; Imaging modalities; Imaging venous anatomy; Image-guided CVC placement  
Management of CVC-related complications: the radiologist's role

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## Sommario/riassunto

This book addresses all the issues a patient may experience prior to receiving a VAD. Selection of equipment, practical aspects of technique, the pros and cons of the various veins, and modifications of technique for certain circumstances are examined. Coverage also includes the roles played by radiologists, anaesthetists, surgeons, nurses, and other team members. Throughout the chapters a reference is made to the IV Therapy Standards published by the Royal College of Nursing IV Therapy Forum in 2003. Each chapter is evidence based and fully referenced.

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