

# Guidelines on oral anticoagulation with warfarin – fourth edition

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**Keywords:** warfarin, anticoagulation, vitamin K antagonist.

The writing group was selected to be representative of UK based experts. This guidance is an update of the previous guideline written in 2005 and published in 2006 (Baglin *et al.*, 2006). The guidance is updated with reference to relevant publications since 2005. Publications known to the writing group were supplemented with additional papers identified by searching Pubmed for publications in the last 5 years using the key word warfarin and limits clinical trial, randomized control trial, meta-analysis, humans, case clinical journals, and English language. The writing group produced the draft guideline, which was subsequently revised by consensus by members of the Haemostasis and Thrombosis Task Force of the British Committee for Standards in Haematology. The guideline was then reviewed by a sounding board of approximately 30 UK haematologists, the BCSH (British Committee for Standards in Haematology), the British Cardiovascular Society and the British Society for Haematology Committee and comments incorporated where appropriate. The 'GRADE' system was used to quote levels and grades of evidence, details of which can be found at [http://www.bcsbguidelines.com/BCSH\\_PROTOCOLS/EVIDENCE\\_LEVELS\\_AND\\_GRADES\\_OF\\_RECOMMENDATION/43\\_GRADE.html](http://www.bcsbguidelines.com/BCSH_PROTOCOLS/EVIDENCE_LEVELS_AND_GRADES_OF_RECOMMENDATION/43_GRADE.html). The objective of this guideline is to provide healthcare professionals with clear guidance on the indications for and management of patients on warfarin.

This guideline replaces the previous BCSH guidelines on oral anticoagulants (Baglin & Rose, 1998; Baglin *et al.*, 2006).

## 1. Indications for warfarin and recommended target international normalized ratio (INR)

This guideline refers to target INRs rather than target ranges, although the target range is generally taken to be within 0.5 of

the target, i.e. a target INR 2.5 equates to a target range of 2.0–3.0. Specifying tighter target ranges for fully anticoagulated patients e.g. 2.0–2.5 or 3.5–4.0 does not achieve tighter anticoagulation control but results in more blood tests and more INR results in ranges associated with increased risk of thrombotic and bleeding (Meyer *et al.*, 2007).

### 1.1 Venous thromboembolism (VTE)

For acute VTE warfarin should be started along with a parenteral anticoagulant, such as unfractionated heparin (UFH), low molecular weight heparin (LMWH) or fondaparinux (Brandes *et al.*, 1992), which should be continued for at least 5 d and until the INR is ≥2 for at least 24 h, whichever is the longer.

For the initial period of treatment the target INR should be 2.5. For patients who require anticoagulation beyond 3 months, it is not recommended to lower the target range after 3 months as this has been shown to offer poorer efficacy with comparable bleeding rates (Krause *et al.*, 2003; Ridker *et al.*, 2009).

Patients who suffer a recurrence of VTE whilst on anticoagulants, where the anticoagulant control is within target, need escalation of their INR target. There are few data that relate to this scenario, but we suggest a target of 3.5.

### Recommendation

- First episodes of VTE should be treated with an INR target of 2.5 (1A).
- Warfarin used for treatment of VTE should be introduced along with parenteral anticoagulation (1A) which should continue for at least 5 d and until the INR is ≥2 for at least 24 h (1C).
- Recurrent VTE whilst anticoagulated and within the therapeutic range should be managed by increasing the INR target to 3.5 (2C).

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# Guidelines On Oral Anticoagulation With Warfarin

## Fourth

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## **Guidelines On Oral Anticoagulation With Warfarin Fourth:**

**Handbook of Oral Anticoagulation** Gregory YH Lip, Eduard Shantsila, 2013-11-19 This book covers a wide range of disorders such as atrial fibrillation artificial heart valves deep vein thrombosis pulmonary embolism and stroke Handbook of Oral Anticoagulation aims to provide an accessible overview of the exciting new developments in this field Incorporating numerous quick reference tables and figures and fully referenced throughout to key papers and the latest reviews it will be a useful resource for all healthcare professionals involved in thromboprophylaxis *Oxford Handbook of Cardiology*, 2025-01-27 Up to date and practically focused the revised 3rd edition of the Oxford Handbook of Cardiology has received a major refresh including new topics illustrations and references It has been thoroughly rewritten with updated content and layout The editors have also added brand new chapters on cardio oncology and sports cardiology It provides clinical professionals and students key information for use with patients and in tutorials Presenting both the fundamental science and practice alongside higher level discussion in a succinct and user friendly style It is a concise but definitive guide to all modern cardiological practice with an emphasis on practical clinical management in many different contexts Written by specialists it provides an accessible and informative tool suitable for all levels of training **Mayo Clinic Critical and Neurocritical Care Board Review** Rodrigo Cartin-Ceba, William D. Freeman, Alice Gallo de Moraes, Richard A Oeckler, 2025-07-28 This book provides a comprehensive review of critical care medicine to assist in preparation of the neurocritical care and general critical care boards **Maternal-Fetal Evidence Based Guidelines** Vincenzo Berghella, 2017-01-27 This new edition of an acclaimed text reviews the evidence for best practice in maternal fetal medicine to present the reader with the right information with appropriate use of proven interventions and avoidance of ineffectual or harmful ones and by rating the evidence of the key references The information is presented in the right format by summarizing evidence succinctly and clearly in tables and algorithms The aim is to inform the clinician to reduce errors and to make it easy to do it right The volume can be purchased separately or together with a companion volume on Obstetric Evidence Based Guidelines set ISBN 978 1 4987 4742 4 *Atrial Fibrillation Update: A Textbook of Cardiology* HK Chopra, Gurpreet S Wander, Praveen Chandra, Viveka Kumar, 2017-03-31 Atrial fibrillation is a heart condition that causes an irregular and often abnormally fast heart rate It can cause problems including dizziness shortness of breath and tiredness and a patient may be aware of noticeable heart palpitations where the heart feels like it is pounding fluttering or beating irregularly often for a few seconds or in some cases a few minutes NHS Choices This comprehensive guide presents clinicians with the latest developments in the diagnosis and management of atrial fibrillation Divided into seven sections the book covers clinical spectrum diagnosis therapeutic strategies interventions and new technologies used in its treatment and prevention Complete sections are dedicated to other arrhythmias to cardiac surgery and to future directions in atrial fibrillation With more than 1000 pages providing in depth coverage of the topic this manual is further enhanced by clinical

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**Nonmalignant Hematology, An Issue of Critical Care Clinics** Robert I. Parker, 2012-07-28 Topics include A Critical re appraisal of Factor VIIa Thrombocytopenia Hit vs non HIT causes Transfusion Reactions Newer concepts on the pathophysiology incidence treatment and prevention of TRALI The utility of diagnostic scoring systems for DIC Newer anticoagulants Anemia in the ICU The role of plasmapheresis in critical illness The use of erythropoiesis stimulating agents in the ICU and Coagulopathy in the ICU DIC vs Liver disease Is this distinction important

**Current Surgical Guidelines** Abdullah Jibawi, Mohamed Baguneid, Arnab Bhowmick, 2018-07-12 Back for a second edition Current Surgical Guidelines has been fully updated to reflect changes in guidelines across the surgical sub specialities since its first publication Drawing together printed and digital guidelines from the Scottish Intercollegiate Guidelines Network SIGN the National Institute for Health and Clinical Excellence NICE and relevant US guidelines this book acts as a valuable complete and comprehensive reference for those embarking on their surgical training revising for exams or for senior staff as an aide memoire Guidelines have been distilled into summary tables and topics are formulated to answer most real life clinical practice questions with contemporary facts and figures decision recommendations and treatment options New chapters on hernias skin malignancies trauma and medicolegal practice have been added to increase fresh challenges facing the contemporary surgical trainee

*Handbook of Pharmacogenomics and Stratified Medicine* Sandosh Padmanabhan, 2014-04-28 Handbook of Pharmacogenomics and Stratified Medicine is a comprehensive resource to understand this rapidly advancing field aiming to deliver the right drug at the right dose to the right patient at the right time It is designed to provide a detailed but accessible review of the entire field from basic principles to applications in various diseases The chapters are written by international experts to allow readers from a wide variety of backgrounds clinical and non clinical basic geneticists pharmacologists clinicians trialists industry personnel ethicists to understand the principles underpinning the progress in this area the successes failures and the challenges ahead To be accessible to the widest range of readers the clinical application section introduces the disease process existing therapies followed by pharmacogenomics and stratified medicine details Medicine is the cornerstone of modern therapeutics prescribed on the basis that its benefit should outweigh its risk It is well known that people respond differently to medications and in many cases the risk benefit ratio for a particular drug may be a gray area The last decade has seen a revolution in genomics both in terms of technological innovation and discovering genetic markers associated with disease In parallel there has been steady progress in trying to make medicines safer and tailored to the individual This has occurred across the whole spectrum of medicine some more than others In addition there is burgeoning interest from the pharmaceutical industry to leverage

pharmacogenomics for more effective and efficient clinical drug development Provides clinical and non clinical researchers with practical information normally beyond their usual areas of research or expertise Includes an basic principles section explaining concepts of basic genetics genetic epidemiology bioinformatics pharmacokinetics and pharmacodynamics Covers newer technologies next generation sequencing proteomics metabolomics Provides information on animal models lymphoblastoid cell lines stem cells Provides detailed chapters on a wide range of disease conditions implementation and regulatory issues Includes chapters on the global implications of pharmacogenomics

The Unofficial Guide to Prescribing e-book Ali B.A.K. Al-Hadithi, Simon R J Maxwell, Zeshan Qureshi, 2025-09-05 Part of the unique and award winning The Unofficial Guides series a collaboration between senior students junior doctors and specialty experts This combination of contributors understands what is essential to excel on your course in exams and in practice as well as the importance of presenting information in a clear fun and engaging way Packed with hints and tips from those in the know when you are in a hurry and need a study companion you can trust reach for an Unofficial Guide The Unofficial Guide to Prescribing provides detailed steps on patient assessment investigation and management with an emphasis on prescription procedures Through clinical scenarios this work provides the necessary skills to excel in handling emergencies and complex prescribing Prescribing errors have significant health implications for patients and financial implications for healthcare systems costing millions annually As such early prescribing training has become a crucial necessity in medical education and is now an integral part of teaching and assessment Each scenario is presented as you would see it in the hospital setting and covers Initial step by step assessment of the patient how to assess assessment findings and immediate management Initial investigations Initial management Reassessment Treatment Handing over the patient New section on electronic prescribing and fluid prescribing Drug charts throughout to fill in with model answers Core theory around prescribing alongside practical application Prescribing taught alongside clinical management New section on electronic prescribing and fluid prescribing Discussing potential of adding questions to the chapters

*Point-of-Care Tests for Severe Hemorrhage* Marco Ranucci, Paolo Simioni, 2015-12-21 This book is a rich source of information on point of care POC tests for the diagnosis and treatment of severe hemorrhage including thromboelastography thromboelastometry heparin monitoring systems and platelet function analyzers Multiplate PFA 100 VerifyNow etc The opening chapters focus on the pathophysiology of coagulation and the general characteristics of POC devices The relevance of POC tests in specific scenarios is then carefully explained with guidance on their use in contexts including trauma cardiovascular surgery ECMO liver surgery postpartum hemorrhage and disorders of hemostasis in the critically ill An individual chapter is devoted to practical issues when applying POC tests and the book closes by presenting a set of informative clinical cases As POC devices gain increasing popularity as bedside diagnostic tools in different clinical settings it is important for practitioners to understand their role and value Point of Care Tests for Severe Hemorrhage will be a useful and reliable source of information for anesthesiologists intensivists

cardiologists and hematologists      ABC of Clinical Haematology Drew Provan, 2018-02-01 Thoroughly revised and updated ABC of Clinical Haematology is an essential guide and introduction to clinical haematology and to the treatment and management of common blood related disorders The fourth edition contains new chapters that reflect the most recent developments whilst other chapters have been extensively revised to include the new tests and treatments that are now available for certain conditions such as chronic leukaemia multiple myeloma and bleeding disorders With contributions from leading experts in their respective fields this text provides an ideal reference for primary care practitioners and other healthcare professionals working with patients who have blood related problems      *Oxford Desk Reference: Acute Medicine* Richard Leach, Kevin Moore, Derek Bell, 2016-06-02 In this era of evidence based medicine one of the biggest challenges confronting acute medicine clinicians is keeping abreast with the rapidly changing recommendations that guide clinical practice Oxford Desk Reference Acute Medicine allows easy access to evidence based materials on commonly encountered acute medical problems to ensure the optimum management of the acutely unwell patient Collating all the research based guidelines and protocols in one easily accessible place and presenting it in a uniform style this practical book is hugely advantageous for a busy clinician as it is not always easy to access research based guidelines and protocols when needed in the clinic The book is designed so that each subject forms a self contained topic in its own right This makes the information simple to find read and absorb so that the book can be consulted in the clinic or ward setting for information on the optimum management of a particular condition Edited by three experts in acute medicine this book should never be far from the acute medicine clinician's side      *Kumar and Clark's Clinical Medicine E-Book* Adam Feather, David Randall, Mona Waterhouse, 2020-06-19 Now in its tenth edition Kumar David Randall MA MRCP and Mona Waterhouse MA MRCP Contributors comprise consultants at the top of their fields paired with younger doctors closer to the exam experience to ensure authority and relevance Enhanced e book accompanies the print book for ease of transportation and use on the move International Advisory Board led by Professor Janaka de Silva and Professor Senaka Rajapakse providing guidance for global coverage from across the world Contributions to the e book by members of the International Advisory Board to amplify areas of clinical importance in their parts of the world Featuring new chapters covering o Diagnosis the art of being a doctor helping readers to develop a confident clinical method in interactions with patients o Geriatric medicine frailty and multimorbidity o Public health o Surgery o Evidence based medicine o Sepsis o Haematological Oncology o Venous thromboembolic disease o Hypertension o Men's health o Obstetric medicine Enhanced clinical skills content has been added to most chapters helping readers tailor history taking and examination skills to specific specialty based contexts      *A Textbook of Advanced Oral and Maxillofacial Surgery* Mohammad Hosein Motamedi, 2016-08-31 Advanced oral and maxillofacial surgery encompasses a vast array of diseases disorders defects and deformities as well as injuries of the mouth head face and jaws It relates not only to treatment of impacted teeth facial pain misaligned jaws facial trauma oral cancers jaw cysts and

tumors but also to facial cosmetic surgery and placement of dental and facial implants This specialty is evolving alongside advancements in technology and instrumentation Volume 1 has topped 132 000 chapter downloads so far and Volume 2 is being downloaded at the same pace Volume 3 is basically the sequel to Volumes 1 and 2 93 specialists from nine countries contributed to 32 chapters providing comprehensive coverage of advanced topics in OMF surgery Oxford Textbook of Geriatric Medicine Jean-Pierre Michel,B. Lynn Beattie,Finbarr C. Martin,Jeremy D. Walston,2018 The third edition of the definitive international reference book on all aspects of the medical care of older persons will provide every physician involved in the care of older patients with a comprehensive resource on all the clinical problems they are likely to encounter as well as on related psychological philosophical and social issues **Handbook of Venous Thromboembolism** Jecko Thachil,Catherine Bagot,2018-02-05 A clinically oriented handbook providing up to date recommendations for mastering the practical aspects of patient management for venous thromboembolism Venous thromboembolism VTE is associated with high morbidity and mortality both in and out of the hospital setting and is one of the commonest reasons for hospital attendances and admissions Designed as a practical resource the Handbook of Venous Thromboembolism covers the practical aspects of venous thromboembolism management in short and easily followed algorithms and tables This important text helps physicians keep up to date with the latest recommendations for treating venous thromboembolism in clinic oriented settings Experts in fields such as the radiological diagnosis of pulmonary embolism and thrombophilia testing give a succinct summary of the investigation diagnosis and treatment of venous thromboembolism and include evidence based guidelines With contributions from a team of internationally recognized experts Handbook of Venous Thromboembolism is a source of information that specialists in the field can recommend to non specialists and which the latter will be able to review to assist in their education and management of this wide spread condition This vital resource Comprises of a clinically focused handbook useful as a daily resource for the busy physician Offers a handbook written by an international team of specialists offering their experience on the practical aspects of venous thromboembolism management Addresses venous thrombosis prevention a major focus for healthcare providers Includes coverage on controversies in the management of venous thromboembolism so clinicians can understand how experts are practicing in real scenarios Written for hematology trainees emergency and acute medicine physicians junior doctors and primary care physicians Handbook of Venous Thromboembolism covers the basics for treating patients with venous thromboembolism and offers guidelines from noted experts in the field **Dacie and Lewis Practical Haematology E-Book** Barbara J. Bain,Imelda Bates,Mike A. Laffan,2016-08-11 For more than 65 years this best selling text by Drs Barbara J Bain Imelda Bates and Mike A Laffan has been the worldwide standard in laboratory haematology The 12th Edition of Dacie and Lewis Practical Haematology continues the tradition of excellence with thorough coverage of all of the techniques used in the investigation of patients with blood disorders including the latest technologies as well as traditional manual methods of measurement You ll find expert

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**Oxford Textbook of Vascular Surgery** Matthew M. Thompson, Robert Fitridge, Jon Boyle, Matt Thompson, Karim Brohi, Robert J. Hinchliffe, Nick Cheshire, A. Ross Naylor, Ian Loftus, Alun H. Davies, 2016-08-25 The Oxford Textbook of Vascular Surgery draws on the expertise of over 130 specialist contributors to encompass the field of vascular surgery Through the use of figures findings of contemporary trials and additional online content this textbook is an excellent study material for surgical trainees entering their final two years of

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