

Oral Anticoagulants in Atrial Fibrillation: Update 2014

List of Suggested Resources and Useful Links

This document contains a list of useful web resources discovered during the development of *Oral Anticoagulants in Atrial Fibrillation: Update 2014*. It is not intended to be a complete list of all web resources on the topic.

Disclaimer and Limitation of Liability

This document has been compiled by the British Columbia Ministry of Health, Medical Beneficiary and Pharmaceutical Services Division. The material contained is for information only and is not intended to be a substitute for professional medical advice, diagnosis or treatment. The Ministry of Health does not endorse, recommend, or control linked websites and accepts no responsibility whatsoever for their contents or views. The Ministry of Health does not accept any liability or blame for damages to any person or business entity because of using this document or any website linked to it.

Suggested Resource	Description
Guidelines and Recommendations	
Canadian Agency on Drugs and Technologies in Health (CADTH)	<p>Recommendations for Antithrombotic Agents for the Prevention of Stroke and Systemic Embolism in Patients with Atrial Fibrillation Recommendations for the use of and selection of warfarin and the new oral anticoagulants (dabigatran, rivaroxaban, apixaban) as derived from a 2013 systematic review of clinical evidence.</p> <p>Antithrombotic Agents for the Prevention of Stroke and Systemic Embolism in Patients with Atrial Fibrillation Full report of the 2013 systematic review of clinical evidence and economic analysis comparing warfarin and the new oral anticoagulants (dabigatran, rivaroxaban, apixaban).</p>
American College of Chest Physicians (ACCP), CHEST Guidelines	<p>Evidence-Based Management of Anticoagulant Therapy 2012 guideline for the management of Vitamin K antagonists and parenteral anticoagulants.</p> <p>Antithrombotic Therapy for Atrial Fibrillation 2012 guideline for antithrombotic therapy in patients with atrial fibrillation.</p> <p>Antithrombotic and Thrombolytic Therapy for Valvular Disease 2012 guideline for antithrombotic therapy in valvular disease.</p> <p>Perioperative Management of Antithrombotic Therapy 2012 guideline for perioperative management of patients on Vitamin K antagonists or antiplatelet therapy.</p>

Suggested Resource	Description
Guidelines and Recommendations (continued)	
BC Guidelines by the Guidelines and Protocol Advisory Committee (GPAC)	<p>Atrial Fibrillation: Diagnosis and Management 2015 BC GPAC recommendations for the diagnosis and management of non-valvular atrial fibrillation including the primary prevention of stroke and transient ischemic attack in adults aged ≥ 19 years.</p> <p>Stroke and Transient Ischemic Attack: Acute and Long Term Management 2015 BC GPAC guideline update for the acute and long-term management of stroke and transient ischemic attack (TIA) in adults aged ≥ 19 years, in the primary care setting.</p> <p>Warfarin Therapy Management 2015 BC GPAC guideline update for the initiation and maintenance of warfarin in adult patients.</p> <p>Use of Non-Vitamin K Antagonist Oral Anticoagulants (NOAC) in Non-Valvular Atrial Fibrillation 2015 BC GPAC guideline for the use of non-vitamin K antagonist oral anticoagulants in the prevention of stroke and systemic embolism in adults aged ≥19 years with non-valvular atrial fibrillation.</p>
Drug Product Monographs	
Health Canada	<p>Drug Product Database Subscription-free, searchable database for drug product information and Canadian product monographs.</p>
Drug Interaction Resources	
University of Washington (UW)	<p>UW Medicine Anticoagulation Services Anticoagulant information for health professionals and patients, including guidance for the management of drug-drug interactions</p>
American College of Chest Physicians (ACCP)	<p>Oral Anticoagulant Therapy Table 1 of this document summarizes warfarin interactions organized by level of supporting evidence and direction of the interaction. Includes information on potential interactions with dabigatran and rivaroxaban.</p>
Canadian Medical Association Journal (CMAJ)	<p>Warfarin Drug Interactions: What Clinicians Need to Know Commentary on the potential basis for warfarin drug interactions and general principles to help minimize patient risk due to warfarin drug interactions.</p>
University of Utah Health Care, Thrombosis Service	<p>Drug/Drug and Drug/Food Interactions with Target Specific Oral Anticoagulants PowerPoint presentation of the interaction potential of oral anticoagulants, including warfarin and the new oral anticoagulants.</p>
Pharmacy Times	<p>Concise articles written by drug interaction experts, Philip D Hansten (PharmD) and John R Horn (PharmD). These articles outline the interaction potential, provide examples of drug-drug interactions and offer monitoring advice for the following medications: dabigatran, rivaroxaban and apixaban.</p>
Peri-Procedural Anticoagulation Management	
BC Guidelines by the Guidelines and Protocol Advisory Committee (GPAC)	<p>Warfarin Therapy – Management During Invasive Procedures and Surgery 2015 BC GPAC recommendations for management of warfarin therapy in adults aged ≥ 19 years requiring invasive procedures and surgery.</p>
British Columbia Drug and Poison Information Centre (DPIC)	<p>Management of Anticoagulant and Antiplatelet Therapy for Patients Undergoing Dental Procedures Recommendations to reduce bleeding risk when dental procedures are required.</p>
University of Washington Anticoagulation Services	<p>Risk Stratification and Recommendations for Bridge Therapy Recommendations for bridge therapy based upon individual patient risk assessment and indication for warfarin use.</p>
American College of Chest Physicians (ACCP)	<p>Perioperative Management of Antithrombotic Therapy ACCP guideline recommendations for perioperative management of patients using Vitamin K antagonists or antiplatelet therapy.</p>

Suggested Resource	Description
Clinical Tools	
BC Guidelines by the Guidelines and Protocol Advisory Committee (GPAC)	<p>Stroke Risk Assessment in Atrial Fibrillation: CHADS₂ Score One page summary of stroke risk assessment in atrial fibrillation including the CHADS₂ risk assessment tool, approximate annual stroke and bleeding risks, and treatment recommendations.</p> <p>Bleed Risk Assessment in Atrial Fibrillation: HAS-BLED Score One page summary of bleeding risk on oral anticoagulation in atrial fibrillation, including approximate risk of major bleeding within 1 year in patients with AF.</p> <p>Warfarin Patient Record Sheet Template for a warfarin patient record to document warfarin dosing, patient's health care providers and monitoring parameters.</p>
MD+CALC online risk assessment tools	<p>CHADS₂ Online Calculator Tool to estimate stroke risk in patients with atrial fibrillation.</p> <p>HAS-BLED Online Calculator Tool to estimate bleed risk and help inform anticoagulation decision making.</p> <p>Creatinine Clearance Calculator Tool to estimate renal function using the Cockcroft-Gault equation.</p>
Canadian Agency on Drugs and Technologies in Health (CADTH)	Preventing Stroke in Patients with Atrial Fibrillation: Using the Evidence A tool to be used by health care professionals when the decision to use anticoagulation has been made. The tool provides therapeutic guidance and a comparison chart for the use of warfarin and the new oral anticoagulants.
Australian National Prescribing Service (NPS) MedicineWise	Anticoagulants Safety Checklist A checklist of topics for clinicians to review with patients to guide appropriate use of and regular monitoring of oral anticoagulants.
Collaborative Learning on Thrombosis (CLOT)	Checklists developed for the safe use of oral anticoagulants by a group of 10 pharmacists who comprise the Collaborative Learning On Thrombosis (CLOT) group: rivaroxaban , apixaban , dabigatran and idarucizumab .
Monitoring of Warfarin	
BC Biomedical Laboratories	Mobile Laboratory Services Home visits for the collection of laboratory specimens for eligible patients in the Lower Mainland upon physician request.
Canadian Agency on Drugs and Technologies in Health (CADTH)	Point-of-Care INR Testing Compared with Lab INR Testing A summary of the results of the CADTH review of the clinical evidence and a health economic analysis to compare POC INR testing with standard laboratory testing.
INR Online	A Computerized Anticoagulation Management System which provides warfarin dosing and INR monitoring recommendations based upon individualized patient INR results.
Thrombosis Canada	Point-of-Care INR Monitoring of Warfarin Therapy Summary of point-of-care INR monitoring and considerations for use and patient selection
General Anticoagulation Resources for Clinicians	
Canadian Agency on Drugs and Technologies in Health (CADTH)	CADTH provides a web portal for evidence-informed recommendations, research reports and ongoing projects relating to anticoagulation.
University of Washington Anticoagulation Services	Anticoagulant Information for Health Professionals and Patients A comprehensive website which includes anticoagulant drug information and anticoagulation guidance for common clinical situations. Of note are recommendations for the reversal of anticoagulation, peri-procedural management of oral anticoagulants and monitoring guidance.
Rx Files Newsletter (2013)	Atrial Fibrillation. Where do the New Anticoagulants Fit? Which is Better, Rate or Rhythm Control? A newsletter with comparative information on the treatment of atrial fibrillation. Includes information on antithrombotic agents, role in therapy, comparison of warfarin and the new oral anticoagulants, medication switching and other topics relating to the management of patients with atrial fibrillation.

Suggested Resource	Description
General Anticoagulation Resources for Clinicians (continued)	
European Society of Cardiology (ESC)	<u>Practical Guide on the Use of Non-Vitamin K Antagonist Anticoagulants in Patients with Non-Valvular Atrial Fibrillation</u> Provides recommendations for the initiation and follow-up of new oral anticoagulant therapy, interaction possibilities, switching between various oral anticoagulants, bleed management, and information for select patient circumstances (e.g., renal dysfunction, malignancy, peri-operative). Also available as an <u>executive summary</u> report
American College of Chest Physicians (ACCP)	<u>Oral Anticoagulant Therapy</u> A comprehensive review of published literature for Vitamin K antagonists, dabigatran and rivaroxaban, including drug initiation, interactions, monitoring, adverse effects, reversal strategies, pharmacokinetics and pharmacodynamics.
Patient Resources and Education	
Canadian Agency on Drugs and Technologies in Health (CADTH) and the British Columbia Ministry of Health	<u>Preventing Stroke When You Have Atrial Fibrillation: Information for Patients</u> Patient focused handout regarding atrial fibrillation, anticoagulation options (warfarin and new oral anticoagulants), bleed risk, adverse effects of anticoagulants and tips for safe medication use. This handout and other related resources are also available on the <u>CADTH</u> website.
HealthLinkBC	Health consumer website supported by the BC Provincial Government which provides health information in patient appropriate language and links to related health topics. Examples of topics related to atrial fibrillation include <u>atrial fibrillation condition overview</u> , <u>anticoagulant and atrial fibrillation medication overview</u> , <u>anticoagulation decision making for patients</u> , <u>warfarin and vitamin K</u> , and <u>warfarin patient safety information</u> .
British Columbia Ministry of Health	<u>Oral Anticoagulants in Atrial Fibrillation</u> Two page patient education sheet providing information on warfarin, INR monitoring and the newer oral anticoagulants.
BC Guidelines by the Guidelines and Protocol Advisory Committee (GPAC)	<u>Warfarin Guide for Patients</u> A two page patient educational handout developed by GPAC for the safe and effective use of warfarin <u>Warfarin and Food</u> One page handout for patients which emphasizes consistency in dietary intake of Vitamin K and provides examples of common Vitamin K containing foods. <u>Important Interactions with Warfarin</u> One page handout for patients which describes important warfarin interactions with other medications, foods, herbs and supplements.
Australian National Prescribing Service (NPS) MedicineWise	A resource for patient information on <u>INR monitoring</u> , including a two minute video explaining the goals and benefits of INR testing. NPS provides patient appropriate information for the use of <u>warfarin</u> , <u>dabigatran</u> , <u>rivaroxaban</u> and <u>apixaban</u> .
Dietitians of Canada	<u>Eating Guidelines for People Taking Warfarin Anticoagulants (Coumadin)</u> Information for patients using warfarin regarding balanced dietary intake of Vitamin K, alcohol, supplements, natural health products, and other dietary items.
Health Canada Consumer Information	<u>Warfarin Interactions with Drugs, Natural Health and Food Products</u> Health Canada consumer information regarding warfarin interactions with other medications, natural health products and dietary products and the importance of discussing potential warfarin interactions with a health care professional.



Suggested Resource	Description
Anticoagulation Clinics	
Fraser Health Anticoagulation Management	This Anticoagulation Management Service provides prophylaxis and treatment of venous thrombosis (e.g., deep vein thrombosis, pulmonary embolism), thromboembolic complications associated with atrial fibrillation and/or cardiac valve replacement plus prophylaxis of conditions which predispose a patient to clinical clot formation including bridging therapy. Individualized patient education, focusing on self-management of care, is also available.
Island Health Pharmacy Anticoagulation Management Service	An anticoagulant support service, accessed by physician referral, for patients primarily in the Victoria area. For referrals, contact 250-370-8220 .