



## Pharmacy-led Anticoagulation Service *Pre-requisites*

### Training & Education

Competency	Method of Assessment
Ability to manage the anticoagulated patient and to handle common problems encountered in their care. This is underpinned by a knowledge of the following: Indication & contraindications for oral anticoagulation. Clotting mechanism, the INR test and the role of warfarin. Pharmacokinetics of warfarin. Recognising and evaluating - a. Drug interactions with warfarin b. Side effects of warfarin c. Interactions of food, herbal remedies and alcohol with warfarin d. Signs and symptoms of under or over anticoagulation Principles of dose adjustment. Recognising when to contact patients doctor. Managing over-anticoagulated patients.	NZ College of Pharmacists Written assessment.
Counselling patients on the indications and risks of anticoagulation to patients.	NZ College of Pharmacists. Waikato Patient Counselling Programme
Ability to deal with a medical emergency.	First aid certification.
Ability to take capillary blood demonstrating good fingerprick technique. Ability to use the CoaguChek XS Plus machine correctly. Ability to perform QC checks. Correct handling of blood and sharps. Ability to use INR Online.	CaoguChek XS Competency training performed by RDNZ at installation. 90 min course covers theory, demonstration, written and practical assessment.



PHARMACEUTICAL SOCIETY  
of New Zealand Incorporated

## Minimum Health and Safety Standards for a Pharmacy-led AMS

Standard	Notes/rationale
Sink	With mixer tap to allow patient to clean/warm hand before fingerpick.
Sharps bin	With proper arrangements for collection of clinical waste.
Good lighting	To aid blood sampling.
Wipeable surfaces	To allow any spillage to be hygienically cleaned.
Sufficient space	To conduct consultation in comfort and to ensure that if a patient suddenly becomes unwell he or she can sit or lie down.
Sufficient access	Area needs to be accessible to elderly and disabled and especially wheelchair bound patients. On the same level as entrance to pharmacy premises.
Visual and aural privacy	To ensure patient confidentiality.
Comfortable chair	Preferably with arm supports.
Computer in consultation area with high speed internet access	To access INROnline and positioned for patient to view their own results and file.
Printer preferably colour	For dose calendar print out.
Fax machine	For faxing results to Doctor if required.

### References:

Setting Quality Standards for a Community Pharmacist-led Anticoagulant Clinic. B. Coleman et al. The Pharmaceutical Journal, Vol 270, March 2003, p 308-311.

Roche Diagnostics Canada CoaguChek Certification Program Level 3.

### Useful links:

Waikato Community Pharmacy Group <http://www.wcpg.co.nz/page/5-home>

Waikato Community Pharmacy Group Warfarin QRG

<http://www.safeuseofmedicines.co.nz/LinkClick.aspx?fileticket=%2F89kU4RHgWM%3D&tabid=65&mid=382>

NZ College of Pharmacists <http://www.psnz.org.nz/public/cop/index.aspx>

INROnline [www.inronline.net](http://www.inronline.net)