



**Seddon
Medical**

WARFARIN MANAGEMENT



ORGANISATIONAL “Buy - In”

Aim: To make an overall improvement in our management of patients on Warfarin.

Buy-in: Whilst our Practice had a robust Warfarin policy, we believed that the SIP programme would further enhance our service delivery. We obtained a commitment from all clinical staff after highlighting the benefits that could be derived for our patients and the practice.

CHANGE IDEAS

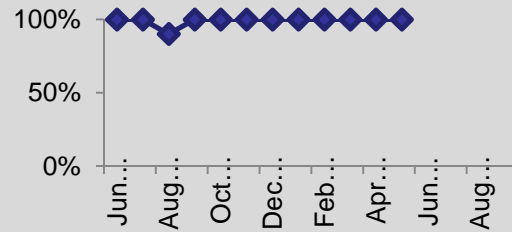
- Vigilant monitoring of incoming INR results whether received by Fax or by Electronic Mail.
- Effective follow through from receipt of result to communication with patient on management protocol as per doctor's orders.
- Implementation of electronic recording of INR results on MyPractice for continuity of patient care and monitoring by all doctors in the practice.
- Patient education.

WHAT CHANGES HAVE WE TESTED?

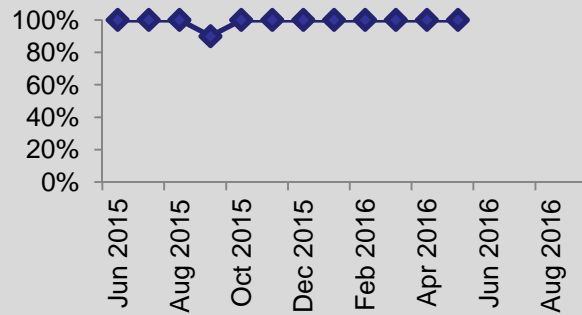
	Change Tested	Outcome
1	Vigilant monitoring of incoming INR results whether received by Fax or by Electronic Mail.	Achieved – Reception Staff and Nurses are more alert to incoming results for actioning.
2	Effective follow through from receipt of result to communication with patient on management protocol as per doctor's orders.	Achieved – All INR results requiring action are attended to by the close of business daily.
3	Implementation of electronic recording of INR results on MyPractice for continuity of patient care and monitoring by all doctors in the practice.	Clinical staff are acquainted with the electronic recording of results on MyPractice and understand the benefits for continuity of care.

AUDITS - RESULTS/ TRENDS

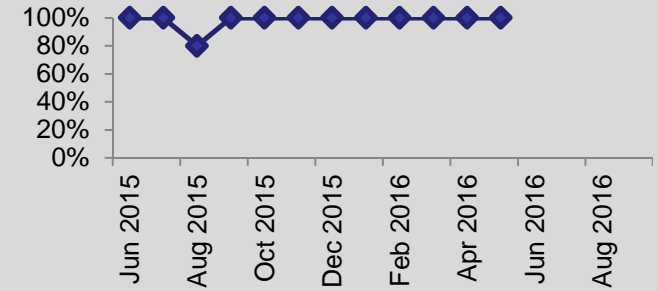
Is there evidence that the last advice on Warfarin dosing given to patient followed current local guidelines or used computer assisted decision making?



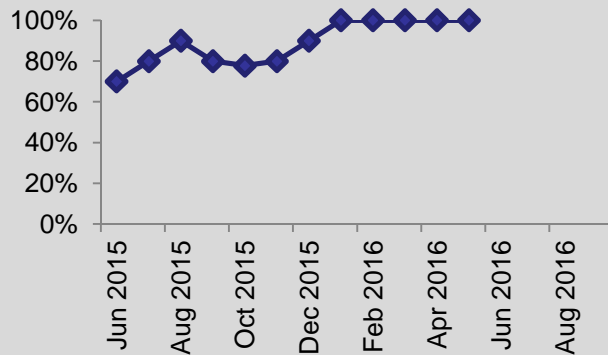
Is the target INR and duration of treatment clearly documented in the notes?



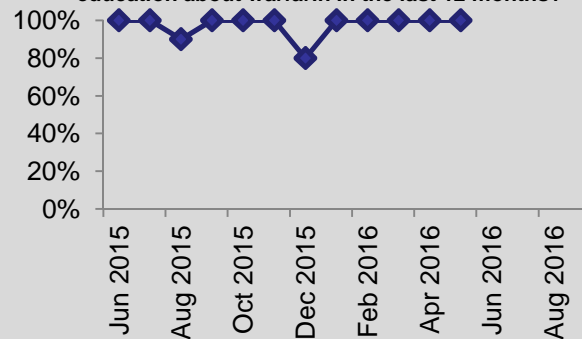
Since the last blood test, has the patient been taking the correct dose as ordered by the treating GP?



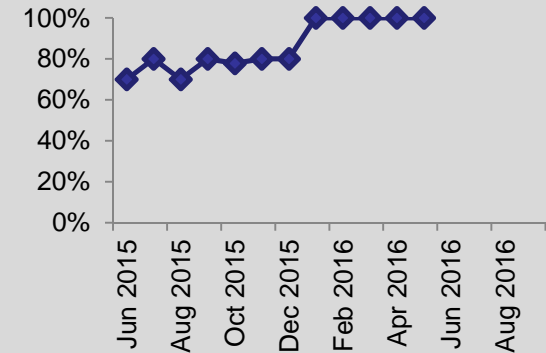
Has the INR been taken within 7 days of the planned date?



Is it recorded that the patient has received education about warfarin in the last 12 months?



Warfarin Management Overall Compliance



ANALYSIS OF RESULTS/ TRENDS

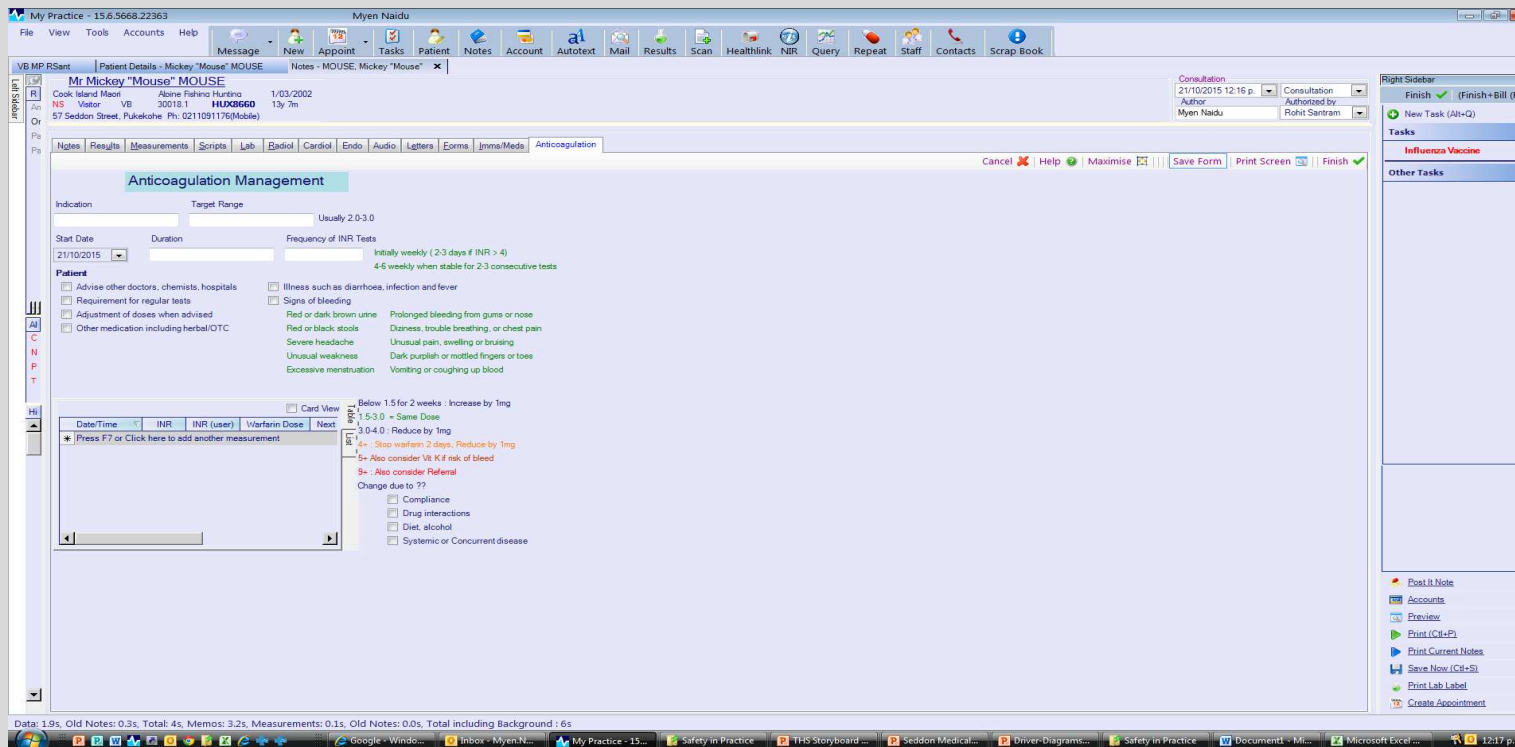
Overall, our Warfarin Management measures since embarking on the Safety in Practice Programme has improved and has seen positive outcomes as per our audits.

The following arose from the audits:

1. Effective recognition of patient non-compliance to clinical orders of increasing or decreasing medication.
2. Barriers to patients having regular testing done...example transport issues.

MOST SUCCESSFUL PDSA CYCLE?

Introduction of recording of results into MyPractice Anticoagulation electronic form.



The screenshot shows the MyPractice Anticoagulation Management form for patient Mr Mickey "Mouse" MOUSE. The form includes fields for Indication, Target Range (Usually 2.0-3.0), Start Date (21/10/2015), Duration, and Frequency of INR Tests (Initially weekly (2-3 days if INR > 4), 4-6 weekly when stable for 2-3 consecutive tests). There are checkboxes for various patient-related factors such as "Advise other doctors, chemists, hospitals", "Requirement for regular tests", "Other medication including herbal/OTC", "Illness such as diarrhoea, infection and fever", "Signs of bleeding", "Red or dark brown urine", "Red or black stools", "Severe headache", "Unusual weakness", "Excessive menstruation", "Prolonged bleeding from gums or nose", "Dizziness, trouble breathing, or chest pain", "Unusual pain, swelling or bruising", "Dark purplish or mottled fingers or toes", and "Vomiting or coughing up blood". A table for INR and Warfarin Dose is visible, with instructions like "Below 1.5 for 2 weeks : Increase by 1mg" and "1.5-3.0 = Same Dose". The form also has a "Change due to?" section with checkboxes for Compliance, Drug interactions, Diet, alcohol, and Systemic or Concurrent disease. The interface includes a menu bar, a toolbar with buttons like "Save Form", "Print Screen", and "Finish", and a right sidebar with "New Task (Alt+Q)", "Influenza Vaccine", and "Other Tasks". The bottom status bar shows "Data: 1.9s, Old Notes: 0.3s, Total: 4s, Memos: 3.2s, Measurements: 0.1s, Old Docs: 0.0s, Total including Background : 6s".

CHANGES GOING FORWARD

- Patients being booked in for Warfarin education. Practice accessing external resources such as educational pamphlets for patients to take home.
- To exclude barriers such as travel for testing, the practice is agreeable to authorise Pharmacies closer to the patient's homes to perform INR testing.