

# Neurosurgery Team Audit

Supervisor: Mr Bhatt

Registrar: Ms Arshad

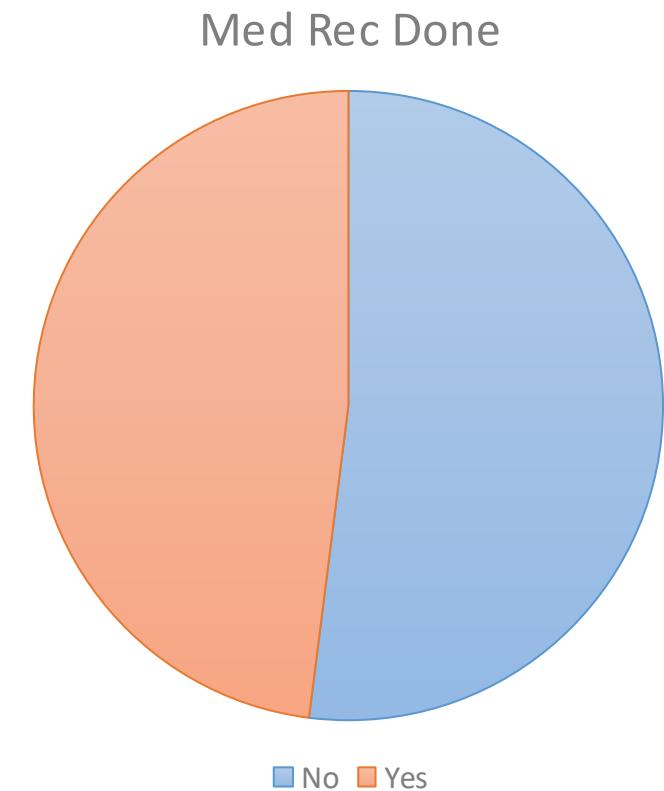
FYs: Drs Andra Ciutac, Ibrahim Ali Ibrahim, Rebecca Kelly, Melania Geymonat Ramirez

# Audit Topics – Neurosurgery Department

- Medicine reconciliation documentation
- Venous thromboembolism prophylaxis assessment & prescribing
- Documentation of long-term anticoagulant / antiplatelet guidance for patients in discharge summary
  - Duration First cycle: 15.01.24 – 28.01.24
  - Number of patients: 44

# Medicine Reconciliation

- “Med Rec” forms are a list of medications patients were taking immediately prior to hospital admissions, used to guide inpatient care and discharge amendments.
- This audit sought to check how many patient's med recs were being completed on HEPMA as a standard clerking practise
- **Findings:** For 23 patients (out of 44) – **52%** - did not have med rec done.



# Venous thromboembolism prophylaxis assessment and prescription

**SURGICAL**  
**Risk Assessment for Venous Thromboembolism (VTE)**  
**COMPLETE WITHIN 24HRS OF ADMISSION**

NHS  
Grampian

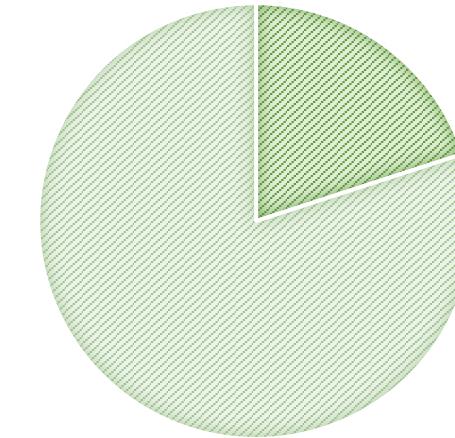
Pt Addressograph  <b>SURGICAL</b>	Date of admission:  Date of first assessment:  Assessed by: Designation:  <u>Provide all patients with VTE information leaflet</u>
Is the patient known, or expected to have, significantly reduced mobility relative to normal state? (≥ than 3 days) <input type="checkbox"/> Yes <input type="checkbox"/> No	
Does the patient have active cancer / receiving cancer treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Does local or national policy exist that dictates the use of chemoprophylaxis? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If NO to all of above, risk assessment is complete and no chemoprophylaxis is required at present Assess patient for anti embolism stockings Continue to review every 48hrs or sooner if condition changes.	
<b>YES TO ANY OF THE ABOVE, COMPLETE RISK ASSESSMENT BELOW DOES THE PATIENT HAVE ANY RISK FACTORS FOR THROMBOSIS?</b>	
<b>↓TICK ALL THAT APPLY↓</b>	
Immobility known or predicted for ≥ 3 days	Use of oestrogen-containing contraception, hormone replacement therapy, or assisted reproduction therapy
Significant medical co-morbidities e.g. heart disease, metabolic, endocrine or respiratory disorders, acute infection, inflammatory condition, sickle cell anaemia.	Personal history of VTE or a first degree relative with a history of unprovoked VTE
Active cancer or receiving cancer treatment.	Pregnancy or < 6 weeks post partum
Dehydration	Varicose veins with a history of phlebitis
Known thrombophilia*	Hip fracture or hip or knee replacement
Obesity (BMI>30 kg/m <sup>2</sup> )	Total anaesthetic time > 90 mins
Critical care admission e.g. HDU/ITU	Surgery involving pelvis or lower limb with a total anaesthetic + surgical time > 60 mins.
Age >60 years	Acute surgical admission with inflammatory or intra abdominal condition.
<b>YES TO ONE OR MORE RISK FACTORS, NOW ASSESS BLEEDING RISK AND CONTRAINDICATIONS TO PHARMACOLOGICAL PROPHYLAXIS?</b>	
<b>↓TICK ALL THAT APPLY↓</b>	
Active bleeding	Thrombocytopenia (<75,000/uL)
Acquired or suspected bleeding disorder (e.g. liver failure)	Untreated inherited bleeding disorder (e.g. haemophilia or von Willebrand disease)
Concurrent therapeutic use of anticoagulants such as warfarin, rivaroxaban, apixaban and dabigatran	Planned or recent surgery or intervention with high bleeding risk. Seek expert advice.
On acute coronary syndrome (ACS) protocol, treatment dose of Dalteparin or Fondaparinux, while waiting for results of Troponin, VQ and/or Doppler	Lumbar puncture, epidural/spinal procedure expected within the next 12 hours or carried out in the previous 4 hours.
Uncontrolled hypertension (≥ 230/120 mmHg)	Heparin induced thrombocytopenia
Acute stroke	

**SEE OVER FOR PHARMACOLOGICAL PROPHYLAXIS.**

RE-ASSESSMENT OVERLEAF.

## DOSE

■ WRONG ■ RIGHT

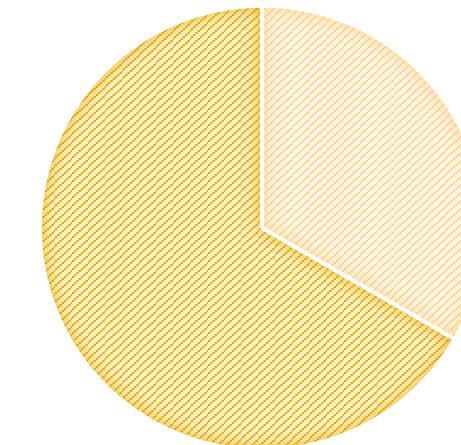


# Findings

- VTEp Assessment is not documented on HEPMA except for pharmacy notes.
- Out of the 44 patients, 15 were prescribed VTEp.
  - 5 of which did not have a plan written on trakcare.
  - 3 were prescribed wrong dose (5000u) when BMI <30 or BMI not written.
  - 1 patient was written 2500u without BMI.
  - 6 patients stayed > 3days (average 7.7 days) and were not prescribed VTEp nor assessed.

## PLAN ON TRAKCARE?

■ No ■ Yes



# Documentation of long-term anticoagulant / antiplatelet guidance

- Out of the patients that had ACO before being admitted, we analysed whether they had an ACO plan or guidance for when, how and if to reassume their medication.
- Total amount of patients that came with clopidogrel / aspirin was 7 (out of 44) = 16%.
  - 3 patients left with a plan
  - 1 passed away
  - 2 Discharge letter was not able to be obtained
  - 1 End of life care

# Recommendations

- Medicine reconciliation documentation:
  - Complete med rec as a standard clerking practise.
- Venous thromboembolism prophylaxis assessment & prescribing:
  - Assess whether any patient in the ward needs VTEp by using NHS Grampian Guidelines, particularly immobilization > 3 days.
  - When VTEp is prescribed, please make sure there is a clear plan for it written in trakcare.
  - When VTEp is prescribed, please make sure the BMI is written in trakcare and VTEp dosage is calculated accordingly.
- Documentation of long-term anticoagulant / antiplatelet guidance for patients in discharge summary:
  - No recommendations made for this set of patients.

# Interventions

- Med rec, VTEp prescription and discharge letters (where ACO plans are written) are done by Junior Doctors. Therefore, we consider followings measures to be appropriate:
  - Presentation in the Neurosurgery department.
  - Work with Junior Doctors onsite to address the topics. We will convey the findings and recommendations via mail and in Doctors office as a reminder.

# What is next?

- Second cycle of audits between 24/6-7/7.
- Data analysis.
- Presentation of results in July.
- Thanks ☺