

**Te Whatu Ora**

Health New Zealand

Capital, Coast and Hutt Valley

# Retrospective ClinPharm review of Met Calls

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# Background

## At Current:

- 2500 MET calls per year
- No direct ClinPharm involvement in the event
- No direct communication between MET/PAR service and ClinPharm service

# Involvement Elsewhere

- Dedicated ClinPharm involvement in rapid response teams in the USA
- Middlemore Hospital NZ: ICU Pharmacist reviews MET calls retrospectively and utilises prescribing scope

# What We Did

- Utilised current resource by using electronic whiteboard to refer MET calls to the ward pharmacist
- Ward pharmacist reviewed MET call + any other medicines related contributing issues retrospectively

# Demographics

- Age: Average 67yo
- Gender: 50% Female, 50% Male
- Pharmacy risk score: 28.5 (High Risk)
- Ward:
  - General Surgery: 23%
  - Orthopaedics/Urology: 17.6%
  - General Medicine: 13.5%
  - Cardiology/Cardiothoracic: 9.5%
  - MAPU: 8.1%
  - Oncology/Renal: 8.1%
  - 6 East: 5.4%
  - HDB: 2.7%
  - Transit lounge: 2.7%



# Demographics

- NZ European: 48.6%
- NZ Māori: 25.7%
- Other European: 13.5%
- Pacific Islander: 6.8%
- Indian: 2.7%
- Middle Eastern: 1.4%
- Asian: 1.4%



# Response Time

- Within 24hrs: 82.6%
- Within 48hrs: 10.9%
- Within 72hrs: 6.5%
- Associated with Friday afternoon referrals
- 71% of referrals were seen by a clinical pharmacist

# Reason For Met Call Referral

- Cardiac: 23%
- AF: 16.2%
- SVT: 2.7%
- Respiratory: 16.2%
- Neurological: 16.2%
- Infection/Sepsis: 6.75%
- Pain: 6.75%
- Other: 12.1%

# Medicines used in MET Call Referrals

- Percent of MET Call referrals that received an intervention related to a medicine = 67%
- Type of medicine used in intervention
  - Cardiac: 33%
  - Manipulation/Alteration of regular meds: 17.3%
  - Neuro: 13%
  - Analgesia: 11%
  - Antibiotics: 8.7%
  - Palliative: 8.7%
  - Respiratory: 4%
  - Anticoagulant: 2%
  - Other: 2%

# ClinPharm Intervention

- Percentage of referrals seen that had additional ClinPharm intervention: 59%
- Type of intervention
  - Medicines advice: 63.9%
  - Medicines reconciliation: 26%
  - Therapeutic drug monitoring: 8.3%
  - Organ function monitoring: 5.5%
  - Medicines administration advice: 2.8%
  - Other: 2.8%

# ClinPharm Intervention

- Overhage JM, Lukes A et al method for characterising Pharmacist's clinical interventions
- 58% of interventions were category 3 (Significant)
- 42% of interventions were category 4 (Somewhat significant)

# Addressing Health Inequities

- Not all wards in the hospital receive a clinical pharmacist service
- Allowed for identification of high acuity, at risk of acute deterioration patients

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- Kathryn Lawrie (Clinical Pharmacy Lead CCDHB)
- Clinical Pharmacy Team



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## Ngā mihi nui