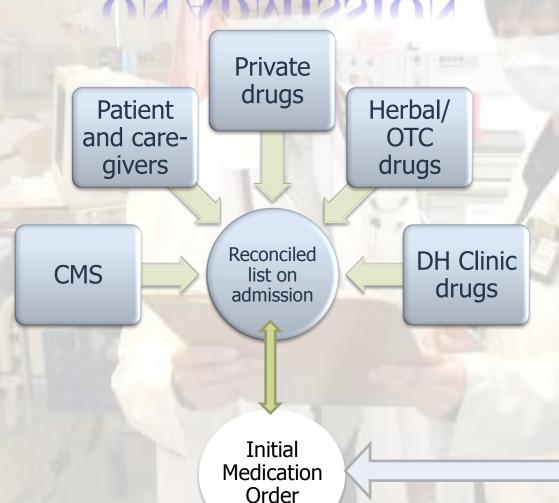


By Elaine Lo, Pharmacist, KWH

## What is Med Rec?

### **ON ADMISSION**



### **Interventions**

- Discrepancies
- Appropriateness
- ADR
- Monitor therapy
- Drug interactions
- Formulation
- Administration

# What is Med Rec?

# **UPON DISCHARGE**

Consolidate discharge meds



Hospital Authority Queen Mary Hospital

Allied Health Discharge Note

mission Date: 10-02-2009 19:19 Discharge Date: 13-02-2009 17:21

Discharge Type: COf

#### Allied Health Discharge Note:

MEDICATION RECONCILIATON RECORD (PILOT RUN)

Change of medications

- Step up Imdur from 30mg daily to 60mg daily
   Add PO Augmentin 735mg tds since 11.2.09 11a
   Off Slow K 600mg BD
- Current Medication List
- 1. PO Lasix 20mg daily
- CaCO3 1g daily
   Digoxin 62.5mcg daily
- 4. Cartia 100mg daily

- 5. TNG SL tab pm 6. Plavix 75mg daily 7. Pariet 20mg daily
- Imdur 60mg daily
   PO Augmentin 375mg tds
- 10. Dologesic 1tab QID prn 11. Spironolactone 12.5mg daily

# Introduction

- Pharmacist-run Med Rec service
  - → ↓ ↓ medication errors
- Scarce resources → patient prioritization

# Objectives

 To identify patient factors associated with discrepancies / interventions

# Methodology 4 HA hospitals, 6 weeks, prospective

### List of risk groups deliberated among Medication Reconciliation pharmacists:

- Follow-up outside HA
- Recent GP visit within 2 weeks
- 3. Poor renal function (<30ml/min)
- 4. On peritoneal or hemodialysis (PD/HD)
- 5. On >5 chronic meds
- With >5 co-morbidities
- Followed up in more than 1 HA specialties with meds

- 8. On high risk meds with frequent dosage changes\*
- 9. Elderly >65 years old, living alone and illiterate
- Admitted for procedure/ examination/ consultation/ day case
- 11. With allergies to >3 drugs/ drug groups
- 12. Transferred from other hospitals
- 13.On Ryle's tube feeding

defined as those meds that require frequent dosage changes and are of narrow therapeutic range, thus butting patient at risk of adverse events; only warfarin, insufin and immunosuppressuants were included in the current analysis.



### χ² test

### Risk groups with significant association to discrepancies/ interventions:

- 1. Follow-up outside HA (p value < 0.001)
- 2. Recent GP visit within 2 weeks (p value <0.001)
- 3. Poor renal function (<30ml/min) (p value <0.001)
- On peritoneal or hemodialysis (PD/HD)
   (p value = 0.006)
- On >5 chronic meds (p value <0.001)</li>

- 6. With >5 co-morbidities (p value <0.001)
- 7. Followed up in more than 1 HA specialties with meds (p value = 0.021)
- 8. On high risk meds with frequent dosage changes (p value <0.001)



### **Multiple Logistic Regression**

### Factors statistically significant in constructing the logistic regression model:

- 1. Follow-up outside HA (OR = 3.39, p value <0.001, 95% CI: 2.57-4.48)
- 2. Recent GP visit < 2 weeks (OR = 1.69, p value <0.001, 95% CI: 1.28-2.22)
- 3. On >5 chronic meds (OR = 1.86, p value <0.001, 95% CI: 1.57-2.20)
- 4. On high risk meds with frequent dosage changes (OR = 1.35, p value = 0.013, 95% CI: 1.07-1.71)

# Results & Outcomes

- 4 Risk groups identified:
  - 1) Follow-up outside HA (OR = 3.39)
  - 2) Recent GP visit <2 weeks (OR = 1.69)
  - 3) On >5 chronic meds (OR = 1.86)
  - 4) On high risk meds with frequent dosage changes (OR = 1.35)
- This study facilitates service planning by identifying high risk patients who would benefit most from the MR service.