

Prescription Chart with Omissions and Errors (space for notes below)

INPATIENT MEDICATION PRESCRIPTION CHART AND ADMINISTRATION RECORD						
Surname Patient	Hospital no. 123456	Gender Male	Allergies, sensitivities and adverse drug reactions Medicine/substance and details of reaction Date: _____ Signature: _____			
First Name Joe	Admission Date 22/05/2020	Weight(kg) 60 kg				
Date of Birth 18/03/1945	Ward Apple	Height(cm) 170 cm				
Consultant Noble	Trainee Dr A. Prescriber	Chart..... Of.....				
Other Charts in Use (tick)	Diabetes	Epidural	PCA	Parenteral Nutrition	Syringe driver	Other (specify)
Complete Electronic VTE Risk Assessment		Signature: A. Prescriber			Date: 22.05.2020	
MEDICINES MANAGEMENT						
Medication History Completed on Patient Electronic Record			Name and Designation M. Pharma Ward Pharmacist		Date 23.05.2020	
Date and Time Discharge Prescription Written			Verified by (Name and Signature)		Date	

ONCE ONLY MEDICATIONS - premedication, loading doses, surgical antimicrobial prophylaxis							
Date and Time	Medication Name	Dose	Route	Sign & Bleep	Given By	Date and Time	Pharmacy
22/05 22.00	Prednisolone	30 mg	PO	AP 123	AN	22/05 22.15	
22/05 22.00	Amoxicillin	500 mg	IV	AP 123	AN	22/05 22.15	
22/05 22.00	Furosemide	40 mg	IV	AP 123	AN	22/05 22.15	
22/05 23.15	Aminophylline in	300 mg	IV	AP 123	AN	22/05 23.30	
	100 mL Sodium						
	Chloride 0.9%						
	over 20 minutes						

Codes for when medicine(s) not administered as prescribed

- 1 Patient away from ward 2 Patient unable to receive e.g. NBM 3 Patient refused
 4 Self-medicating witnessed 6 Self-medicating not witnessed 7 Delayed administration – state reason
 8 Other – state reason X Omitted on instruction of doctor

OXYGEN PRESCRIPTION							
Date Started	Dose (% or L/min)	Route Nasal Cannula, Simple Face Mask, Reservoir, Venturi, Humidified, other	Target saturation	Frequency – continuous or when required	Sign & Bleep	Date Stopped, Sign & Bleep	Nurse Sign
22/05	24%	Venturi Mask	88-92%	Continuous	AP 123	24/5 AP 123	AN

ORAL ANTICOAGULANT PRESCRIPTION - DIRECT ORAL ANTICOAGULANT (DOAC)								
Indication AF	Date Started 24/05	Length of Treatment Long-term	Sign & Bleep A. Prescriber 123	Pharmacy 28 TTA MP 24/5	Refer to anticoagulant clinic			
					Anticoagulant book & alert card given			
					Patient counselled			
<p>Patients newly started on a DOAC e.g. apixaban, dabigatran, edoxaban, rivaroxaban, must be referred to the anticoagulant clinic, be provided with the relevant anticoagulant alert card and counselled on the medicine before discharge.</p>								
Medication		Time	Dose	Date				
Edoxaban				24				
Date 24/05	Route	PO	06					
Sign & Bleep A.Prescriber			09	60 mg	AN			
Instructions			12					
			18					
			22					
			24					

ORAL ANTICOAGULANT PRESCRIPTION - VITAMIN K ANTAGONIST							
Indication	Date Started	Length of Treatment	Sign & Bleep	Pharmacy	Refer to anticoagulant clinic		
					Anticoagulant books given		
Target INR					Patient counselled		
<p>Patients prescribed Vitamin K Antagonists e.g. warfarin, must have a follow-up appointment, be provided with a completed anticoagulant record book and counselled on the medicine before discharge.</p>							
Medication		Date					
		INR					
Route	PO	Dose at 18:00					
Sign & Bleep		Signature					
		Given By					

Pharmacy codes:
 S = stock drug IP = inpatient supply POD = patient's own medicine
 TTA = dispensed by pharmacy with instructions POSH = patient's own supply at home

REGULAR PRESCRIPTION

REGULAR PRESCRIPTION																															
			Date	22	23	24																									
Medication Furosemide			Time	Dose	Additional Information Rate should not exceed 4 mg/minute																										
			06																												
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						24																									

AS REQUIRED MEDICATIONS																						
Medication Salbutamol											Date											
Indication SOB - COPD											Time											
Dose 2 puffs			Route INH		Start Date 22/5						Dose											
Max Dose/Frequency in 24 hours 4-6 hourly											Route											
Sign & Bleep A. Prescriber 123				Pharmacy POD 23/5 MP							Given By											
Medication Paracetamol											Date											
Indication Pain/Fever											Time											
Dose 1 g			Route PO		Start Date 23/5						Dose											
Max Dose/Frequency in 24 hours											Route											
Sign & Bleep A. Prescriber 123				Pharmacy S 23/5 MP							Given By											
Medication											Date											
Indication											Time											
Dose			Route		Start Date						Dose											
Max Dose/Frequency in 24 hours											Route											
Sign & Bleep				Pharmacy							Given By											

Please indicate the reason where option 7 OR 8 has been chosen for not administered as prescribed			
Date	Time	Signature	Reason for non-administration/delay and action taken

Notes on Prescription Chart

Prescription Chart with Omissions and Errors Highlighted

On the next page, find the **same drug chart with the errors and omissions highlighted**. If you did not manage to find them all, try again and compare the two prescriptions. **Be sure to try and find the errors on the charts above before continuing.**

Explanations and learning points can be found at the end of the document.

INPATIENT MEDICATION PRESCRIPTION CHART AND ADMINISTRATION RECORD

Surname Patient	Hospital no. 123456	Gender Male	Allergies, sensitivities and adverse drug reactions Medicine/substance and details of reaction <h3 style="margin: 0;">None Known</h3>			
First Name Joe	Admission Date 22/05/2020	Weight(kg) 60 kg				
Date of Birth 18/03/1945	Ward Apple	Height(cm) 170 cm				
Consultant Noble	Trainee Dr A. Prescriber	Chart 1 Of 1	Date: 22/05/2020 Signature: A. Prescriber			
Other Charts in Use (tick)	Diabetes	Epidural	PCA	Parenteral Nutrition	Syringe driver	Other (specify)
Complete Electronic VTE Risk Assessment		Signature: A. Prescriber			Date: 22.05.2020	

MEDICINES MANAGEMENT

Medication History Completed on Patient Electronic Record	Name and Designation M. Pharma Ward Pharmacist	Date 23.05.2020
Date and Time Discharge Prescription Written	Verified by (Name and Signature)	Date

ONCE ONLY MEDICATIONS - premedication, loading doses, surgical antimicrobial prophylaxis

Date and Time	Medication Name	Dose	Route	Sign & Bleep	Given By	Date and Time	Pharmacy
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22/05 22.00	Amoxicillin	500 mg	IV	AP 123	AN	22/05 22.15	
22/05 22.00	Furosemide	40 mg	IV	AP 123	AN	22/05 22.15	
22/05 23.15	Aminophylline in	300 mg	IV	AP 123	AN	22/05 23.30	
	100 mL Sodium						
	Chloride 0.9%						
	over 20 minutes						

Codes for when medicine(s) not administered as prescribed:

- 1 Patient away from ward 2 Patient unable to receive e.g. NBM 3 Patient refused
 4 Self-medicating witnessed 6 Self-medicating not witnessed 7 Delayed administration – state reason
 8 Other – state reason X Omitted on instruction of doctor

OXYGEN PRESCRIPTION							
Date Started	Dose (% or L/min)	Route Nasal Cannula, Simple Face Mask, Reservoir, Venturi, Humidified, other	Target saturation	Frequency – continuous or when required	Sign & Bleep	Date Stopped, Sign & Bleep	Nurse Sign
22/05	24%	Venturi Mask	88-92%	Continuous	AP 123	24/5 AP 123	AN

ORAL ANTICOAGULANT PRESCRIPTION - DIRECT ORAL ANTICOAGULANT (DOAC)							
Indication AF	Date Started 24/05	Length of Treatment Long-term	Sign & Bleep A. Prescriber 123	Pharmacy 28 TTA MP 24/5	Refer to anticoagulant clinic		
					Anticoagulant book & alert card given		
					Patient counselled		
<p>Patients newly started on a DOAC e.g. apixaban, dabigatran, edoxaban, rivaroxaban, must be referred to the anticoagulant clinic, be provided with the relevant anticoagulant alert card and counselled on the medicine before discharge.</p>							
Medication Edoxaban		Time	Dose	Date			
				24			
		06					
Date 24/05	Route	PO	09				
Sign & Bleep A.Prescriber 123			12				
			18	30 mg	AN		
Instructions			22				
			24				

ORAL ANTICOAGULANT PRESCRIPTION - VITAMIN K ANTAGONIST							
Indication	Date Started	Length of Treatment	Sign & Bleep	Pharmacy	Refer to anticoagulant clinic		
Target INR					Anticoagulant books given		
					Patient counselled		
<p>Patients prescribed Vitamin K Antagonists e.g. warfarin, must have a follow-up appointment, be provided with a completed anticoagulant record book and counselled on the medicine before discharge.</p>							
Medication		Date					
		INR					
Route	PO	Dose at 18:00					
Sign & Bleep		Signature					
		Given By					

Pharmacy codes:

S = stock drug

IP = inpatient supply

POD = patient's own medicine

TTA = dispensed by pharmacy with instructions

POSH = patient's own supply at home

REGULAR PRESCRIPTION

			Date	22	23	24												
Medication Enoxaparin			Time	Dose	Additional Information													
			06															
			09															
Route	SC	Sign & Bleep	12															
Date	22/5	A. Prescriber 123	18	40 mg		AN												
Pharmacy			22															
S 23/5 MP			24															
			STOP A.Prescriber 24/05/20															
Medication Salbutamol			Time	Dose	Additional Information													
			06															
			09	5 mg		AN												
Route	NEB	Sign & Bleep	12	5 mg		AN												
Date	22/5	A. Prescriber 123	18	5 mg														
Pharmacy			22	5 mg	AN													
S 23/5 MP			24															
			DRIVEN BY AIR															
			STOP A Prescriber 24/05/20															
Medication Ipratropium			Time	Dose	Additional Information													
			06															
			09	500 micrograms		AN												
Route	NEB	Sign & Bleep	12	500 micrograms		AN												
Date	22/5	A. Prescriber 123	18	500 micrograms														
Pharmacy			22	500 micrograms	AN													
S 23/5 MP			24															
			DRIVEN BY AIR															
			STOP A Prescriber 24/05/20															
Medication Prednisolone			Time	Dose	Additional Information													
			06															
			09	30 mg		AN	AN											
Route	PO	Sign & Bleep	12															
Date	22/5	A. Prescriber 123	18															
Pharmacy			22															
S 23/5 MP			24															
			FOR 5 DAYS with/after food															
Medication Amoxicillin			Time	Dose	Additional Information													
			06	500 mg		AN	AN											
			09															
Route	IV	Sign & Bleep	12 14	500 mg		AN	AN											
Date	22/5	A. Prescriber 123	18															
Pharmacy			22	500 mg	X	AN	AN											
S 23/5 MP			24															
			FOR 5 DAYS															
Medication Amiodarone			Time	Dose	Additional Information													
			06	200 mg			AN											
			09															
Route	PO	Sign & Bleep	12 14	200 mg			AN								X	X	X	X
Date	23/5	A. Prescriber 123	18															
Pharmacy			22	200 mg		AN	AN											
S 23/5 MP			24															
			200 mg tds for 7 days, then bd for 7 days then od thereafter															

AS REQUIRED MEDICATIONS

Medication Salbutamol MDI 100 micrograms/puff			Date																
Indication SOB - COPD			Time																
Dose 2 puffs	Route INH	Start Date 22/5	Dose																
Max Dose/Frequency in 24 hours 4-6 hourly				Route															
Sign & Bleep A. Prescriber 123		Pharmacy POD 23/5 MP	Given By																
Medication Paracetamol			Date																
Indication Pain/Fever			Time																
Dose 1 g	Route PO	Start Date 23/5	Dose																
Max Dose/Frequency in 24 hours 4-6 hourly max QDS				Route															
Sign & Bleep A. Prescriber 123		Pharmacy S 23/5 MP	Given By																
Medication			Date																
Indication			Time																
Dose	Route	Start Date	Dose																
Max Dose/Frequency in 24 hours				Route															
Sign & Bleep		Pharmacy	Given By																

Please indicate the reason where option 7 OR 8 has been chosen for not administered as prescribed

Date	Time	Signature	Reason for non-administration/delay and action taken

Key learning points from the prescribing exercise are explained below

1. Allergy and ADR status

- The allergy and ADR status are not completed
- Incomplete documentation of allergy/ADR status can result in a patient experiencing a drug reaction which can potentially be fatal
 - It may also result in optimal therapy being withheld
- Ensure allergy/ADR status is ascertained and documented before prescribing any medication

2. Drug charts in use

- The number of charts is not documented
- It is important to make a note of the number of charts a patient has, so prescribers are aware of all prescribed medicines and to avoid missed doses
- Any additional charts in use should be documented on the main drug chart e.g. diabetic chart

3. Medicines reconciliation

- This is the process of ensuring the patient's current medication history is correct on transferring between care settings and any changes made are clearly documented
- To ensure continuity of care, document the name of each medicine, the dosage, frequency and route of administration.
 - Additional information such as formulation, strength and device may be required for some medicines
- Symbicort inhaler is available in three different strengths and as two different delivery devices (metered-dose inhaler (MDI) and dry powder inhaler (DPI))
 - Therefore, strength and device should be noted on the drug chart

- Salbutamol inhaler is available as two different devices
 - The most commonly prescribed inhaler device for salbutamol is the MDI
 - Some patients may, however, be using a salbutamol DPI which is a different strength to the MDI device
 - The strength and device should be noted on the drug chart
- The inhaler technique needs to be checked to ascertain whether the patient is using his inhalers correctly – this can usually be done by a Dr, nurse, pharmacist or pharmacy technician
 - Discuss with a pharmacist if the patient is using their inhalers incorrectly

4. Administration

- When reviewing a patient's medication, it is vital to check what the patient has actually received, as this may influence the management of the current situation
- There are no administration signatures for enoxaparin and therefore it is not known whether these doses have been omitted or the nurse has forgotten to sign

5. Edoxaban

- Enoxaparin and edoxaban should not be given together
 - Enoxaparin must be stopped and edoxaban started when the next enoxaparin dose would have been due
- The patient's body weight and calculated creatinine clearance should be checked to ensure the correct dose of edoxaban is prescribed - refer to local Trust guidance and/or BNF
 - According to the patient's weight, the dose of edoxaban is incorrect and should be 30 mg OD

- Prior to initiation of edoxaban, a clotting screen, renal function, U+Es, FBC and LFTs should be carried out and assessed – refer to local Trust guidance and/or BNF for further details
- The patient should be counselled on edoxaban, given the relevant documentation and referred to anticoagulant clinic at some point before discharge

6. Treatment of COPD

- Always prescribe in accordance with your local Trust COPD and antimicrobial guidelines
- The dose of nebulised ipratropium should be written as 500 micrograms
 - Micrograms should not be abbreviated to mcg as it can be misread as mg
- It is recommended nebulised salbutamol and ipratropium are driven by air and not oxygen to avoid carbon dioxide retention in COPD patients
- For prednisolone the number of days treatment must be documented
 - If a reducing dose is required, the regime must be clearly stated
- For amoxicillin the number of days treatment must be documented
 - The IV route should be reviewed daily and switched to the oral route when appropriate
 - The time interval between amoxicillin doses should be equal e.g. 0600, 1400 and 2200

7. Diuretic therapy

- On admission, the furosemide was switched to the IV route and the dose increased
- The second dose of furosemide should usually be given at lunch time (and no later than 4 pm) to prevent the peak diuretic effect occurring at night and inconveniencing the patient
- Furosemide should be given by slow IV injection at a rate not exceeding 4 mg per minute due to the risk of ototoxicity associated with a more rapid rate of administration
- Dose and route of furosemide should be reviewed on a daily basis and according to clinical parameters

8. Aminophylline

- The patient requires an intravenous loading dose of aminophylline 5 mg per kg (diluted further usually in 100 mL sodium chloride 0.9 %) as an infusion over 20 minutes – check your local Trust IV medication administration guide
 - It is important to ascertain whether a patient is already taking oral aminophylline or oral theophylline, as these patients should not normally receive a loading dose of intravenous aminophylline
- The loading dose of aminophylline is followed by a maintenance intravenous infusion of aminophylline 300 micrograms per kg per hour (dose in elderly)
 - Check your local Trust IV medication administration guide for details on how to prescribe this
- Aminophylline is a narrow therapeutic index drug and a blood sample should be taken 4–6 hours after starting IV treatment
 - Aminophylline is monitored therapeutically in terms of plasma-theophylline concentration

9. Treatment of hypokalaemia

- It should be noted that furosemide, aminophylline, salbutamol nebuliser and prednisolone all have the potential to cause hypokalaemia
 - Therefore, when prescribed concomitantly the risk of hypokalaemia is increased further
- The usual maximum concentration of potassium that can be infused peripherally is 40 mmols/litre
 - Each 20 mmol of potassium is usually given slowly over 2 to 3 hours using an infusion pump
- Commercially available ready-diluted potassium infusion must be used

- Potassium diluted with sodium chloride 0.9% are preferred for initial potassium replacement, as those diluted with glucose may further lower potassium levels

10. Oral Amiodarone

- Amiodarone has a long half-life and requires a loading regime of 200 mg TDS for one week, 200 mg BD for the second week then 200 mg OD thereafter
 - When a change in dose is part of a standard initiation regime, this should be annotated clearly on the drug chart
- Prior to initiation of amiodarone, chest X-ray, potassium level, TFTs, LFTs and ECG, should be carried out and assessed – see BNF for further information
- Caution should be exercised when amiodarone is prescribed with medicines that may cause hypokalaemia as there is a risk of torsade de pointes

11. Tiotropium

- Tiotropium is part of the patient's medication history and should be restarted once the ipratropium nebulas are stopped, as part of the management of his COPD
- Tiotropium inhaler is available as different devices and strengths
 - The device and strength should be noted on the drug chart
 - It is good practice to prescribe by brand name
- The inhaler technique should be checked

12. Paracetamol

- The maximum dose of paracetamol is 1 g four times daily and the minimum time interval between doses is 4-6 hours
- The frequency and the maximum dose in 24 hours should be stated to avoid too frequent or over-dose by exceeding the maximum daily dose of paracetamol, which can lead to fatal consequences.