

# Clinical Prescribing Teaching

## 2012-2013

### Student Pack

### Teaching Session 1: Plan

#### Learning Objectives

By the end of this session, participants should be able to:

1. Know some of the common abbreviations used in prescribing
2. Prescribe medication on a drug chart
3. Be aware of some common problems that occur when medication is prescribed for hospital inpatients
4. To understand the Check and Correct tool when clerking patients on the wards

The Pharmacist leading the session will give you each a drug chart from this hospital, and discuss the issues above. This pack contains other resources you will need for the session. Printouts will be given as required at the session.

## Common Abbreviations Used in Prescribing

**What do the following abbreviations mean?**

OD

BD

TDS

QDS

i

ii

iii

po

pr

pv

iv

sc

im

inh

top

prn

stat

**What is the difference between a brand and generic drug?**

## Guided Tour of the Drug Chart

## How to Write a Prescription

## Examples of Correctly Prescribed Medication

Surname: T  
 First Names: M  
 Date of Birth: 'Insert DOB'  
 Hospital Number: 'Insert Hospital number'  
 NHS Number: \_\_\_\_\_  
 Date of Admission: 17/8/12    Weight (kg): 65kg    Height (cm): 156    BSA (m<sup>2</sup>): \_\_\_\_\_

Complete for Allergies / Sensitivities or NKDA

This section must be completed prior to administration of any medicine

Include details of type of reaction

PENICILLIN

Regular Prescriptions				Time	Date ↓ * MONTH * Year: * YEAR *	
Medicine (approved name) <b>ASPIRIN</b>				08		
Dose <b>75mg</b>	Route <b>PO</b>	Start Date <b>17/8</b>	Stop Date	12		
Signature/Bleep <b>Ⓢ 1234</b>		Additional Instructions			18	
Pharmacy		Additional Instructions			22	
Patient Medicine on admission <input checked="" type="checkbox"/> New		Additional Instructions				
Medicine (approved name) <b>RAMIPRIL</b>				08		
Dose <b>10mg</b>	Route <b>PO</b>	Start Date <b>17/8</b>	Stop Date	12		
Signature/Bleep <b>Ⓢ 1234</b>		Additional Instructions			18	
Pharmacy		Additional Instructions			22	
Patient Medicine on admission <input checked="" type="checkbox"/> New		Additional Instructions				
Medicine (approved name) <b>ALFACALCIDOL</b>				08		
Dose <b>2 micrograms</b>	Route <b>PO</b>	Start Date <b>17/8</b>	Stop Date	12	X X X X X X X X	
Signature/Bleep <b>Ⓢ 1234</b>		Additional Instructions			18	
Pharmacy		Mondays Wednesdays & Fridays			22	
Patient Medicine on admission <input checked="" type="checkbox"/> New		Additional Instructions				
Medicine (approved name) <b>MESALAZINE MR</b>				08		
Dose <b>1g</b>	Route <b>PO</b>	Start Date <b>17/8</b>	Stop Date	12		
Signature/Bleep <b>Ⓢ 1234</b>		Additional Instructions			18	
Pharmacy		Pentasa <sup>®</sup>			22	
Patient Medicine on admission <input checked="" type="checkbox"/> New		Additional Instructions				
Medicine (approved name) <b>CEFALEXIN</b>				08	Day ①	
Dose <b>500mg</b>	Route <b>PO</b>	Start Date <b>17/8</b>	Stop Date	12		
Signature/Bleep <b>Ⓢ 1234</b>		Additional Instructions			18	
Pharmacy		UTI 7/7			20	
Patient Medicine on admission <input checked="" type="checkbox"/> New		Additional Instructions				
Medicine (approved name)				08		
Dose	Route	Start Date	Stop Date	12		
Signature/Bleep		Additional Instructions			18	
Pharmacy		Additional Instructions			22	
Patient Medicine on admission <input type="checkbox"/> New		Additional Instructions				

- Codes:**
- |  |   |                            |                        |
|--|---|----------------------------|------------------------|
| 1. Patient away from ward                                      | 3. On instruction of doctor                         | 5. Not required by patient | 7. Self administration |
| 2. Patient could not receive medicine (specify reason on back) | 4. Medicines not available (specify reason on back) | 6. Patient refused         | 8. Other               |
- 7

## The BNF

The British National Formulary (BNF) aims to provide up to date information about the use of medicines. The BNF contains key information of the selection, prescribing, dispensing and administration of medicines. Medicines generally prescribed in the UK are included. There is very little information in the BNF regarding medicines that can be purchased by the public.

### Structure of the BNF

The Table of Contents shows that information in the BNF is divided into:

- The Preface and General information which includes *How the BNF is Constructed and Changes for this Edition*.
- *Guidance on Prescribing*, which provides practical information on many aspects of prescribing from writing a prescription to prescribing in palliative care.
- *Emergency Treatment of Poisoning*, which provides an overview on the management of acute poisoning.
- *Classified notes on clinical conditions, drugs, and preparations*, these notes are divided into 15 chapters, each of which is related to a particular system of the body (e.g. chapter 2, Cardiovascular System) or to an aspect of medical care (e.g. chapter 5, Infections). Each chapter is further divided into classified sections. Each section usually begins with *prescribing notes* followed by relevant drug *monographs* and *preparations*.
- Drugs are classified in a section according to their pharmacology and therapeutic use.
- *Appendices and Indices* includes five appendices (providing information on drug interactions, Borderline substances, cautionary and advisory labels for dispensed medicines, intravenous additives, and wound management), the Dental Practitioners' Formulary, the Nurse Prescribers' Formulary, Non-medical Prescribing, Index of Manufacturers, and an Alphabetical Index. The information in the Appendices should be used in conjunction with relevant information in the chapters.

## How to Use the BNF

### DRUG NAME

**Indications** details of clinical uses

**Cautions** details of precautions required and also any monitoring required

**Counselling** Verbal explanation to the patient of specific details of the drug treatment (e.g. posture when taking a medicine)

**Contra-indications** circumstances when a drug should be avoided

**Hepatic impairment** advice on the use of a drug in hepatic impairment

**Renal impairment** advice on the use of a drug in renal impairment

**Pregnancy** advice on the use of a drug during pregnancy

**Breast-feeding** advice on the use of a drug during breast-feeding

**Side-effects** very common (greater than 1 in 10) and common (1 in 100 to 1 in 10); *less commonly* (1 in 1000 to 1 in 100); *rarely* (1 in 10 000 to 1 in 1000); *very rarely* (less than 1 in 10 000); also reported, frequency not known

#### Dose

- Dose and frequency of administration (max. dose); **CHILD** and **ELDERLY** details of dose for specific age group
- By **alternative route**, dose and frequency

**Approved Name** (Non-proprietary) 

Pharmaceutical form, sugar-free, active ingredient mg/mL, net price, pack size = basic NHS price. Label: (as in Appendix 3)

1. Exceptions to the prescribing status are indicated by a note or footnote.

**Proprietary Name** (Manufacturer)  

Pharmaceutical form, colour, coating, active ingredient and amount in dosage form, net price, pack size = basic NHS price. Label: (as in Appendix 3)

**Excipients** include clinically important excipients

**Electrolytes** clinically significant quantities of electrolytes


**Note** Specific notes about the product e.g. handling

### Preparations

Preparations are included under a non-proprietary title, if they are marketed under such a title, if they are not otherwise prescribable under the NHS, or if they may be prepared extemporaneously.





### Drugs

Drugs appear under pharmacopoeial or other non-proprietary titles. When there is an *appropriate current monograph* (Medicines Act 1968, Section 65) preference is given to a name at the head of that monograph; otherwise a British Approved Name (BAN), if available, is used.

The symbol  is used to denote those preparations that are considered by the Joint Formulary Committee to be less suitable for prescribing. Although such preparations may not be considered as drugs of first choice, their use may be justifiable in certain circumstances.

### Prescription-only medicines

This symbol has been placed against those preparations that are available only on a prescription issued by an appropriate practitioner. For more detailed information see *Medicines, Ethics and Practice*, London, Pharmaceutical Press (always consult latest edition).

The symbols     indicate that the preparations are subject to the prescription requirements of the Misuse of Drugs Act. For regulations governing prescriptions for such preparations see Controlled Drugs and Drug Dependence.

### Preparations not available for NHS prescription

This symbol has been placed against those preparations included in the BNF that are not prescribable under the NHS. Those prescribable only for specific disorders have a footnote specifying the condition(s) for which the preparation remains available. Some preparations which are not *prescribable* by brand name under the NHS may nevertheless be *dispensed* using the brand name providing that the prescription shows an appropriate non-proprietary name.

### Prices

Prices have been calculated from the basic cost used in pricing NHS prescriptions, see also Prices in the BNF for details.

## Drug Chart Writing Exercise

Mrs T was admitted via A&E and has now arrived on the ward for which you are the FY 1. The relevant section of her initial medical clerking is given below.

You may use the BNF provided.

*Mrs M.T., 64 yr old lady, admitted last night via A&E with ? Chest infection*

*PMH:*

*Angina  
Osteoporosis  
Recurrent UTIs*

*DH:*

*Simvastatin 40mg once daily  
Alendronate 70mg once weekly  
IMDUR 60mg once daily  
Iron tablets once daily  
Paracetamol 1g four hourly as needed for pain  
Novorapid 5units TDS  
Glargine 20units at night  
Trimethoprim 100mg ON*

*Allergies:*

*Penicillin*

1. Please prescribe Mrs T's usual medication on the drug chart given.
2. Mrs T is a bit dehydrated. The registrar wants you to prescribe 1 litre of normal saline with some potassium intravenously and VTE prophylaxis
3. Later that morning, the consultant recommends adding Augmentin for the treatment of her chest infection. Add this to the drug chart.
4. A week later, Mrs T develops problems with swallowing, and can only swallow liquid medication. What implications does this have?



## **Using the Check and Correct prescribing checklist – guidance for medical students**

### **Background**

The “check and correct” prescribing checklist<sup>1</sup> was originally developed to aid focus on prescribing during consultant-led ward rounds. However we believe it will also be useful for medical students to complete as part of their clinical placements to introduce the concepts of safe prescribing and to integrate the pharmacy-led teaching sessions with practice.

### **Learning objectives**

Following completion of this exercise, medical students should be able to:

- List some key standards for safe prescribing
- Comment on the extent to which prescribing on their placement ward(s) meets these standards

### **What students need to do**

- Obtain / print off a copy of the check and correct checklist
- Complete the tool for 10-15 patients seen on the ward(s) during their clinical attachment. Note that the shaded boxes are unlikely to be relevant on wards where there is electronic prescribing for inpatients
- Add up the total number of boxes with an X for each patient. Are there any patients with no problems at all?
- Come back to the second pharmacy teaching session prepared to discuss what you found, and what you learned from this process.

### **Reference**

1. Caldwell G. Real Time “Check And Correct” Of Drug Charts On Ward Rounds - A Process For Improving Doctors’ Habits In Inpatient Prescribing. Pharmacy Management 2010; 26:3-9.

**Safe Prescribing Standards–Check and Correct–Report all deficiencies to the relevant team and ensure chart is up to standard**

Date	...../...../.....	Person completing form	Ward or Unit														
		Patient:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		Initials:															
<b>Safe Prescribing Standard</b>																	
Patient name, DOB, hospital number, consultant, ward, all on front page	√ Yes X Not all																
All items are readily legible in black, clear and unambiguous – could the patient easily read and check the drug names?	√ Yes X Not all																
Drug allergy box completed?	√ Yes X No																
If any drugs prescribed in units other than “mg” or “g”, is the unit written in longhand? E.g. micrograms, (not mcg), units (not u) for insulin and dalteparin, tinzaparin etc?	√ Yes X Not all ---n/a																
For all ANTI-INFECTIVE AGENTS both a duration and indication are written?	√ Yes X Not all ---n/a																
All prescribed drug doses administered? (If not, why not? Was doctor informed? Should drug be stopped?)	√ Yes X No																
Use of approved generic names * e.g. dalteparin not Fragmin simvastatin not Zocor co-amoxiclav not Augmentin	√ Yes X No																
PRN drugs all have dose and where appropriate a maximum frequency e.g. morphine, paracetamol?	√ Yes X Not all -- n/a																
Has the doctor signed and dated each prescription	√ Yes X No																
Venous thromboprophylaxis data fully completed and most appropriate drug prescribed?	√ Yes X No																
Perfection?	√ Yes X No																
Count N° of Boxes with an “X”																	

**Comments**

\* You may need help from a Pharmacist on generic names  
Shaded boxes not relevant where there is electronic prescribing

## Clinical Prescribing Teaching

### Compulsory Attendance and Feedback Form Session 1

Name:

Site:

Number of students in Group:

**Please complete this form at the end of the session** and hand it to the Pharmacist before you leave.  
They will give it to the teaching co-ordinators.

Learning Objectives:

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Did the session achieve the stated learning outcomes? Yes / No

Was there enough opportunity for questions? Yes / No

Was the length of training session Too long / too short / just right?

#### What is your evaluation of the session in relation to:

Clearly audible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mumbled
Explanations clear & understandable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Incomprehensible
Lively/interesting presentations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monotonous
Stressed important material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All material seemed the same
I have learned a lot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I have learned nothing
Teaching methods appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teaching methods not appropriate
The material will improve my practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	My practice will not improve

How would you rate the overall quality (including organisation) of the session out of 10: \_\_\_\_\_

Do you feel this session could be improved?

What else could be included in the session that you feel would be relevant?

Is there anything you would like to add?

***All feedback is valuable, thank you very much***