



# PHARMACY BACHELOR Field training Booklet

PART II: Hospital, clinical and industrial pharmacy

# By Anes Abdulwahid Thabit

# **Contributors**

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Name of Trainee	••••
Academic year	
Supervisor Name/ Sig	



# **Contents**

l.	Field training in hospital pharmacy	2
II.	Field-training in clinical pharmacy	. 14
III.	Field-training in industrial pharmacy22	)



# Field-training in

# "Hospital pharmacy"

#### NOTES:

- The supervisor shall categorize students into teams (each consist of 2 students)
- Each team shall bring different data for each task
- The trainee should not copy or photo-copy any document in the hospital. This is totality forbidden.



### I. DATA OF THE FIELD OF TRAINING

Details of the Hospital pharmacy where the training has been accomplished.
Name of the hospital:
Types of hospital : (Public - Private)
Address of the hospital: City
The Pharmacy Principle; Mobile



#### Task1: Identify the hospital pharmacy ( Put $\sqrt{}$ in the appropriate square)

(i)	hospital? Yes No						
(ii)	Number of pharmacies in the hospital  One More than two						
(iii)	(iii) Location of the hospital. pharmacy  At the center of hospital Near to the exit gate other location (where ?)						
(iv)	(iv) Number of hospital pharmacists One More than two						
(v)	(v) Shifts of hospital pharmacists  Every 8 hours Every 12 hours  Every 24 hours						
(vi)	<ul><li>Admini</li><li>There is</li><li>There is</li><li>Is there</li></ul>				tor)		
(vii)	Generic name	Trade name	Strength/ dosage	Comp.	Use of		
			form	manufacturer	medication		
1							
2							
3							
4				•••••			
5							



### Task2: Identify the management of medications in the hospital

Put  $\sqrt{\text{inside the appropriate square}}$ 

(i)	How do medications flow in the hospital?  From supplier to bulk store to hospital pharmacy  From supplier directly to the hospital pharmacy
(ii)	Which department does supply emergency rooms and operation rooms?  The In-patient pharmacy The Bulk store
(iii)	How are medications requested from the supplier ?
(iv)	How are the medications received in the hospital pharmacy?
	• What should the pharmacist checks in the medications upon receiving them ?
	• How are the IV fluids checked when received ?
(v)	How are medications ordered (arranged) in the pharmacy ?
( )	Based on therapeutic categories (e.g. analgesics, antibiotics, etc.)
	Based on the supplier (Natco, Al-jabal, etc.)
	Based on dosage forms ( capsules, vials, ampoules, etc.)



(vi)	Are there medications stored outside the hospital pharmacy e.g. in emergency room, operative rooms, nurse stations?
	Yes No
	If Yes;
	a. Which department does supply medications to those sites?  The In-patient pharmacy The Bulk store
(vii)	How are pharmaceutical wastes e.g. used syringes, vials and drips disposed ?
	ς.
	3: Regulations of Dispensing and Distribution of medications in the hospital ( Put the appropriate square)  How are Controlled drugs dispensed ?
(ii)	Give 5 examples of controlled drugs



(iii)	How are medications distributed to in-patients?
E	From the pharmacy to nurses to in-patients From pharmacy to patient attendant to nurse
(iv)	Are the medications prescribed checked for drug interaction or doses?
	Yes
	No
	If No, what are the reasons?
(v)	<ul><li>I.V. compatibility Checking</li><li>Are the incompatibility of IV admixtures checked?</li></ul>
	No
	If No, what are the reasons ?? إذا ال ما هي السباب ل عدم الذيام برلك
*	Study of IV compatibility (in prescriptions containing IV drips + drugs)
1- BN	
2- (	Injectable drug guide, Alistair Gray et al., Pharmaceutical press, UK; You can download PDF from the web (www.pdfdrive.com)



# Study of IV compatibility ( in prescriptions containing IV drips + drugs) $\underline{Prescription~(1)}$

Prescribed Medication	ns (The IV drip	o + drugs)	
generic	strength	dose	Category (e.g. antiemetic; analgesic; etc.)
Possible incompatibili	ities		
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Prescribed Medication	ns ( The IV drip	o + drugs)	
generic	strength	dose	Category (e.g. antiemetic; analgesic; etc.)
Possible incompatibile	ities		
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#### **Task 4: Documentations in hospital pharmacy**

Descri	be the contents in the following documents ( if any)
1 TT	
1. Ho	spital formulary ( record of all medications in the hospital)
• • • • • • • • • •	
<u> </u>	
2. Sto	ock record ( record of in-out flow of medications in the bulk store )
3. Me	edications- Receiving documents
4. Me	edications issuing-documents
•••••••	
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• • • • • • • • • • • • • • • • • • • •	
E N/L-	1' - 4' D 4' 1 4
5. ME	edications- Requesting documents



<b>6.</b>	Medi	cations-	administrat	ion record ( In	-patienst)		
• • • • • • • • • • • • • • • • • • • •	• • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••
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Task 5: Complete the following table regarding specific medications in the hospitals (Mention each generic name once only; Don't repeat generic names)

Generic name	Trada nama Manus	f Company country	Ctuamath Pr	Adult dose	Contraindications	
Generic name	Trade name, Manuf. Company, country		Strength & dosage form		Contraindications	
	original	Other	dosage form	e.g. (1x3)		
				<u> </u>		
(ii) Pre-	anesthetic medication	ons ( Don't mention	n the antibiotics	$\mathbf{s}$ )		



					AL RAD UNIVERSITY
(iii) IV inf	fusions 1- I.V. fluid	S			
Normal saline	N.S ;,		500 ml		
0.9%)					
Dextrose =	D.W; G.W;	,	500 ml		
glucose (5%)					
Normal saline	G.N.S ;DNS;	,	500 ml		
dextrose 5% +					
N.S. 0.9%					
Ringer lactate	R.L;,		500 ML		
•••••					
•••••					
***					
I.V. infusions ( oth	ners)	•	ı-	•	Transfer of the second of the
Ciprofloxacin					
metronidazole					
••					

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					AL MAD UNIVERSITY	
(iv) Operative medications ( anesthetics and others)						
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(v) Medic	(v) Medical appliances ( Medical Cotton ; gauzes; etc.)					



# Field-training "Clinical pharmacy"

#### **NOTES:**

- The supervisor shall categorize students into teams (each consist of 2-3 students)
- If more than one team practiced at the same hospital, the supervisor should direct each team toward different departments in the hospital, so as to each team report different cases.
- Cases required to be studies should be at least 3 different cases from different departments



### I. DATA OF THE FIELD OF TRAINING

#### Details of the Hospital where the training has been accomplished.

Name of the hospital:
Types of hospital : (Public - Private)
Departments where the training was practiced

	Name of department	Head of department	Nurse
1		Dr	
2		Dr	
3		Dr	



Task 1: Case 1: In-p	patient at (department )			
Attach a photo of the fi	le title of the patients			
Date when you begin to s	tudy the case			
1- Patient`s data				
Sex	••••••			
Age	•••••			
Bed /Room No.				
Date of admission	••••••			
2- Case story; What	happened? (The reasons that caused admission of the patient to the			
hospital)				
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	<b>nistory</b> ( Chronic current diseases the patient suffered from before ospital and the medications the patient used and still use for those			
diseases)	T T Was and was and was tot mose			



Diseases
Medications
4- Clinical features (symptoms and signs e.g. BP, HR, Respiratory rate)
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4- Clinical features (symptoms and signs e.g. BP, HR, Respiratory rate)



5- Laborato	ory investigation (Record only important results)
Blood	
Biochemistry	
(Hormones,	•••••••••••••••••••••••••••••••••••••••
enzymes,	
biochemical )	
	••••••
Urine	
	•••••
	•••••
Stool	••••••
	••••••
Others	

For the investigation that was not conducted, just Write (NIL)



6- Instrume	ental investigation (Record only important results)
X-ray	
US	
(Ultrasound)	
CT-scan	
MRI	
Others	

For the investigation that was not conducted, just Write (NIL)



7- Diagnosis by the physician
Diagnosis
Your comments on the Physician's diagnosis
The reasons for the diagnosis (Why did the physician diagnose the disease as such?
Do you agree with the physician's diagnosis? Give reasons



8- Medications prescribed by the physician				
Medication	Category	Dose	Why medications	Do you approve to use
Name,			was prescribed ?	that medication? If
strength				not , give reasons.
dosage form				
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<sup>•</sup> Category e.g. antibiotic, analgesic, antiemetic

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- Why medication was used ? E.g. BP 160; Fever 38; Bleeding
- Do you approve that medication ? E.g. Yes , it is the best. No, there is contraindication , drug interaction or error in the dose or No, the drug is ineffective , etc.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (1st Follow up); Date ..... Therapy outcome Name of drug Symptom or Check drug If therapy outcome Either $(\sqrt{})$ or (X)prescribed sign for administration was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ••••• ..... ...... ..... ...... ...... ...... ...... ...... •••• ...... ...... ...... ...... ••••• ..... ..... ...... ..... ...... ....... ...... ...... ••••• ...... ..... ••••• ..... ••••• ••••• ••••• ...... ....... ...... ...... .....

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write  $(\lor)$  : if symptom relieved) or (X): if symptom was unrelieved.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (2<sup>nd</sup> Follow up); Date ..... Therapy outcome Name of drug Symptom or Check drug If therapy outcome Either $(\sqrt{})$ or (X)prescribed sign for administration was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ••••• ..... ...... ..... ...... ...... ...... ...... •••• ...... ...... ...... ...... ...... ••••• ..... ..... ...... ..... ...... ....... ...... ...... ••••• ...... ..... ••••• ..... ••••• ••••••••••••••••••••••• ••••• ...... ........ ...... ...... •••••

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write (V) : if symptom relieved) or (X): if symptom was unrelieved.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (3<sup>rd</sup> Follow up); Date ...... Therapy outcome Name of drug Symptom or Check drug If therapy outcome Either $(\sqrt{})$ or (X)prescribed sign for administration was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ••••• ..... ...... ..... ...... ...... ...... •••• ..... ...... ...... ..... ••••• ..... ..... ...... ..... ...... ....... ...... ...... ...... ••••• ...... ...... ..... ••••• ..... ••••• ••••• ••••• ••••• ...... ...... ...... ...... .....

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write (v) : if symptom relieved) or (X): if symptom was unrelieved.



10- Medications You may recommend to add to the therapy				
Name,	Category	Dose	Why would the medication be	
strength			recommended ?	
dosage form				
•••••	•••••	•••••		
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11-	· What Non-pharmacotherapy you might recommend to the patient? Why?					
	••••••					
	•••••					

Note: Non-pharmacotherapy such as life style changes, cease smoking, sport, diet control etc.



Task 2: Case 2: In-patient at (department)								
Attach a photo of the file title of the patients								
Date when you begin to s	tudy the case							
Dute when you segm to s	tady the case the control of the case t							
1- Patient`s data								
Sex								
Age								
Bed /Room No.								
Date of admission								
2- Case story; What	happened? (The reasons that caused admission of the patient to the							
hospital)								
•••••								



3- <b>Patient's Medical history</b> ( Chronic current diseases the patient suffered from before Admission to the hospital and the medications the patient used and still use for those
diseases)
Diseases
Medications
••••••••••
4- Clinical features (symptoms and signs e.g. BP, HR, Respiratory rate)
4- Clinical features (symptoms and signs e.g. BP, HR, Respiratory rate)



5- Laboratory investigation (Record only important results)					
Blood					
Biochemistry					
(Hormones,					
enzymes,					
biochemical )					
Urine					
	••••••				
Stool					
Others					

For the investigation that was not conducted, just Write (NIL)



6- Instrumental investigation (Record only important results)						
X-ray						
US						
(Ultrasound)						
CT-scan						
MRI						
Others						

For the investigation that was not conducted, just Write (NIL)



7- Diagnosis by the physician
Diagnosis
Your comments on the Physician's diagnosis
The reasons for the diagnosis (Why did the physician diagnose the disease as such?
Do you agree with the physician's diagnosis? Give reasons



8- Medications prescribed by the physician						
Name,	Category	Dose	Why medications	Do you approve to use		
strength			was prescribed ?	that medication? If		
dosage form				not , give reasons.		
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- Category e.g. antibiotic, analgesic, antiemetic
- Why medication was used ? E.g. BP 160; Fever 38; Bleeding

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• Do you approve that medication? E.g. Yes, it is the best. No, there is contraindication, drug interaction or error in the dose or No, the drug is ineffective, etc.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (1st Follow up); Date ...... Name of drug Symptom or Check drug Therapy outcome If therapy outcome Either ( $\sqrt{}$ ) or (X) prescribed sign for administration was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ...... ....... ••••• ...... ••••• ••••• ...... ...... ••••• ••••• ...... ...... ••••• ..... ..... ..... ....... ...... ••••• ..... ••••• ••••• •••• ••••• ••••• ...... •••••

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write (V) : if symptom relieved) or (X): if symptom was unrelieved.



### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (2<sup>nd</sup> Follow up); Date ...... Name of drug Symptom or Check drug Therapy outcome If therapy outcome Either $(\sqrt{})$ or (X)sign for administration prescribed was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ••••• ••••• . . . . . . . . . . . . . . . . . . . ••••• ......... ....... ....... ..... ...... ...... ••••• ....... ...... ...... ...... ••••• ••••• ..... ..... ••••• ......

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Name,	Category	Dose	Why would the medication be	
strength			recommended ?	
dosage form				
•••••	•••••	•••••		
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	•••••	•••••		
•••••	•••••		•••••	

What Non-pharmacotherapy you might recommend to the patient? Why?
••••••

Note: Non-pharmacotherapy such as life style changes, cease smoking, sport, diet control etc.



	n-patient at (department )
Attach a photo of the	e file title of the patients
Data when you hagin t	a study the ease
Date when you begin t	o study the case
1- Patient`s data	
Sex	
Age	••••••
Bed /Room No.	
Date of admission	••••••
	at happened? (The reasons that caused admission of the patient to the
hospital)	
•••••	
•••••	
•••••	•••••••••••••••••••••••••••••••••••••••
•••••	•••••••••••••••••••••••••••••••••••••••
••••••	



3- Patient's Medical history (Chronic current diseases the patient suffered from before
Admission to the hospital and the medications the patient used and still use for those
diseases)
Diseases
Medications
•••••••••••
4- Clinical features (symptoms and signs e.g. BP, HR, Respiratory rate)
4- Clinical features (symptoms and signs e.g. BP, HR, Respiratory rate)



5- Laborato	ory investigation (Record only important results)
Blood	
Biochemistry	
(Hormones,	
enzymes,	
biochemical )	
Urine	
Stool	
Others	

For the investigation that was not conducted, just Write (NIL)



6- Instrume	ental investigation (Record only important results)
X-ray	
US	
(Ultrasound)	
CT-scan	
MRI	
Others	

For the investigation that was not conducted, just Write (NIL)



7- Diagnosis by the physician
Diagnosis
Your comments on the Physician's diagnosis
The reasons for the diagnosis (Why did the physician diagnose the disease as such?
Do you agree with the physician's diagnosis? Give reasons



8- Medication	ns prescribed	by the physician	1	
Name,	Category	Dose	Why medications Do you approve to	
strength			was prescribed ?	that medication? If
			<b>F</b> = 0	
dosage form				not , give reasons.
•••••	•••••	•••••	•••••	•••••
	•••••	•••••	•••••	•••••
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- Category e.g. antibiotic, analgesic, antiemetic
- Why medication was used ? E.g. BP 160; Fever 38; Bleeding
- Do you approve that medication ? E.g. Yes , it is the best. No, there is contraindication , drug interaction or error in the dose or No, the drug is ineffective , etc.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (1st Follow up); Date ...... Name of drug Symptom or Check drug Therapy outcome If therapy outcome Either ( $\sqrt{}$ ) or (X) prescribed sign for administration was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ...... ...... ....... ••••• ••••• ...... ••••• ...... ...... ••••• ...... ...... ••••• ..... ..... ..... ....... ...... ••••• ..... ••••• ••••• ••••• •••• ••••• •••••

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write (V) : if symptom relieved) or (X): if symptom was unrelieved.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (2<sup>nd</sup> Follow up); Date ...... Name of drug Symptom or Check drug Therapy outcome If therapy outcome Either $(\sqrt{})$ or (X)sign for administration prescribed was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ••••• ••••• . . . . . . . . . . . . . . . . . . . •••• ••••• ......... ..... ....... ....... ..... ...... ...... ••••• ••••• ...... ...... ...... ...... ••••• ..... ..... ••••• ......

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write (V) : if symptom relieved) or (X): if symptom was unrelieved.



#### 9- Drug therapy monitoring (Follow up the patient case after days of treatment) (3<sup>rd</sup> Follow up); Date ...... Name of drug Symptom or Check drug Therapy outcome If therapy outcome Either $(\sqrt{})$ or (X)sign for administration prescribed was (X), give which the From (the reasons why? medication medication prescribed by administration the physician record) ••••• ••••• . . . . . . . . . . . . . . . . . . . •••• ••••• ......... ..... ....... ....... ..... ...... ...... ••••• ....... ...... ...... ...... ...... ••••• ..... ..... ••••• ...... ...... • • • • • • • • • •

Check drug administration from (the medication administration record): Write yes if the medication was administered to the patient at given times or No if not; ; Therapeutic outcome ( write (v) : if symptom relieved) or (X): if symptom was unrelieved.



10- Medications You may recommend to add to the therapy					
Name,	Category	Dose	Why would the medication be		
strength			recommended ?		
dosage form					
•••••	•••••	•••••	•••••		
•••••	•••••	•••••	•••••		
••••	•••••	••••	•••••		
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	•••••		•••••		

11- Wł	hat Non-	pharmaco	otherapy y	ou might	recomme	nd to the	patient ? <b>V</b>	Why?	
••••	• • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
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te : No	on-pharm	acotherapy	y such as lif	e style cha	nges, ceas	e smoking,	sport, diet	control et	tc.



## Field-training

# "Industrial pharmacy"

### **NOTES:**

- The supervisor shall categorize students into teams (each consist of 15 students)
- If more than one team practiced at the same factory, the supervisor should direct each one toward different report in the manufacturing y.
- manufacturing required to be studies should be at least 2 place.



## III. DATA OF THE FIELD OF TRAINING

Details of the industrial pharmacy where the training has been accomplished.

Types of industrial : (Public - Private)
Address of the industrial:
City
The Pharmacy Principle; Mobile



## دليل زيارة المصنع الدوائي

## • الهدف العام من الزيارة:

يتعرف الطالب على هيكلية المصنع وعلى النظام المتبع داخل المصنع.

### \* الاهداف الخاصة:

- ١- تعريف الطالب بالنظام الروتيني المتبع داخل المصنع.
- ٢- التعرف على تصميم المصنع واقسام المصنع الصيدلاني المختلفة.
- ٣- التعرف علي مهارات التصنيع الجيد: ( good manufacturing practical )
  - ٤- التعرف على مهارات المختبر الجيد: ( good laboratory practice )
- ٥- التعرف على الاختبارات الدوائية في ضبط الجودة لأشكال الجرعات الصيدلانية وتحليل المواد الخام.
  - ٦- التعرف على العمليات التصنيعية لأشكال الجرعات الصيدلانية المختلفة في خط الانتاج.
    - ٧- التعرف على اقسام البحث والتطوير.

اولا:
مقدمة تعريفية عن المصنع وانشائه وشروط GMP وشهادة ISO:



# المخازن

	تخزين المواد الخام:
•••••	
	تخزين المنتج النهائي:
	تعرين المنتج المهالي.



## الانتاج

خطوط الانتاج للسوائل:
. 61
الية عمل خطوط الانتاج للسوائل:
خطوط الانتاج للأقراص:
الية عمل خطوط الانتاج للأقراص:



	الآلات المستخدمة للتصنيع (مع رسم الأجهزة والادوات التي مرت على الطالب) :
• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••
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التعبئة والتغليف :	



المكتب العلمي:	
ادارة البحث والتطوير:	
رقابة الدوائية :	محمل اأ
·	., ()
 	•••••



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