



**UNIVERSITY COLLEGE DUBLIN**  
*An Coláiste Ollscoile Baile Átha Cliath*  
**UCD SCHOOL OF NURSING, MIDWIFERY & HEALTH  
SYSTEMS**

Scoil na hAltrachta, an Cnáimhseachais agus na gCoras Slainte

In partnership with the  
National Maternity Hospital  
and  
Maternity services within the Ireland East  
Hospital Group  
at  
Regional Hospital Mullingar,  
St Luke's General Hospital Carlow/Kilkenny,  
Wexford General Hospital



**UCD Midwifery**

**Medication Workbook for Years 2 & Year 3 BSc Midwifery Students**

Student Name:

Student Number:



**SIGNATURE BANK**

Each registered midwife/nurse who acts as a preceptor/co-preceptor for this student must sign this signature bank.

Preceptors/Co-preceptor Name (Print)	Signature	Preceptors/Co- preceptor Initials	Ward/Area

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## Introduction

This workbook has been developed as a tool to assist you in gaining knowledge of some of the commonly used medications during your clinical placements in Year 2 and Year 3 of your BSc Midwifery programme. In Year 1 and Year 2 you received lectures and clinical skills in UCD relating to pharmacology and medication administration and management to assist you to link theory to practice. Medication administration and management is an important aspect of your competence assessment throughout your BSc Midwifery programme. The Principles and Competencies specific to this area (**under direct supervision**) are:

***"Principle 3: Quality of Practice:** Participates with the midwife in the safe management of drug administration, monitoring effects and documenting appropriately in accordance with NMBI medication management guidance, and providing a rationale for this". (NMBI 2016, page 27).*

## Learning Outcomes

In relation to medication management within your MCAT Document during Year 2 & Year 3 clinical placements you will expected to:

- Summarise Nursing and Midwifery Board of Ireland (NMBI) practice guidance used for medication administration (NMBI 2020)
- Summarise NMBI *Code of Professional Conduct and Ethics for Registered Nurses and Registered Midwives* (NMBI 2021).
- Identify and explain the 10 'Rights' (R's) of Medication Administration (NMBI 2020; HIQA, 2015)
- Demonstrate an understanding of the local policies and procedures for medication management (including controlled drugs)
- Demonstrate competent hand hygiene techniques (e.g. hand washing; use of alcohol gel)
- Identify and demonstrate a knowledge of the emergency trolley medications
- Discuss how medications are prescribed (e.g. On prescription sheet; discharge prescription pad, electronic maternity record etc)
- Discuss the steps involved in the safe administration of medication
- Participate in the correct practice of checking right patient, right reason, right drug, right route, right time, right dose (including calculations), right form, right action, right documentation, right response (NMBI, 2020; HIQA, 2015)
- Participate in the calculation, preparation and **double checking** of medications including the identification of patients/clients and the administration of medications and explain rationale for this
- Distinguish the types of storage for medications in the clinical area
- Identify the medications used in core and specialist areas
- Complete the workbook below in relation to these medications
- Additional Learning Outcomes specific to this placement:

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## Instructions for Use:

- Part 1:** In addition to meeting these learning outcomes you will complete Part 1 of the workbook below in relation to medication management. You will be expected to identify the medications used in specialist areas (e.g. A minimum of 5 medications for each core placement (antenatal, labour, postnatal, gynae and neonatal) and a minimum of 3 medications for each specialist placement (HDU, Mental Health and Theatre– on placements where medications are administered).
- Part 2:** You will be expected to understand the management of anaphylaxis in relation to adverse drug reaction
- Part 3:** You will be expected to demonstrate the ability to perform drug calculations and answer the questions in relation to each of the listed medications.
- Part 4:** You will be expected to use a **case study** approach to demonstrate knowledge of the different medications used in the core and specialist areas. (A total of **5 case studies** in Stages 2&3 inclusive of mental health and neonatal placement). One of these case studies must be completed on your longer placements. Please discuss the choice of placement and the client with your preceptor and/or your CPC)

**The following explains the requirements for each section of the workbook that you are required to complete on each placement**

<b>Medication Name</b>	This refers to the approved (Generic) name of the medication, which is the name that must be used when the medication is prescribed
<b>Brand/Trade Name</b>	It is common to hear or see medications referred to by their brand name e.g. Panadol for paracetamol. It is important to be aware of the brand and generic name of medications
<b>Medication Group</b>	What group does the medication belong to? Is it an analgesic, anti-hypertensive, anti-pyretic, antibiotic?
<b>Indication</b>	Why is this medication used and for which condition and/or symptoms?
<b>Dose</b>	Doses may vary depending on weight, age, route used or the indications for use.
<b>Route</b>	How should the medication be administered e.g. orally, rectally, intravenously, inhalation, intramuscularly, subcutaneously, intrathecal
<b>Frequency</b>	How often should this medication be administered? What is meant by a 'regular prescription' and a prescription that is 'PRN'? Where possible include the maximum dose in a 24-hour period or highlight the differences in frequency depending on route used.
<b>Peak Action/Duration of Action</b>	For example, if analgesia has been administered, how long will it take to work and how long will it last in the patients/client's system?
<b>Contraindications/Cautions Midwifery Considerations</b>	Extremely important to identify, especially in relation to pregnancy & lactation
<b>Side-Effects</b>	When you know the side-effects, you can identify the reason quickly and prevent or manage the side-effect in an effective manner
<b>Observed administration of medication</b>	Indicate if you have been involved in observing the administration of the stated medication
<b>Participate under direct supervision in preparation, calculation, administration and documentation of medication to woman/baby</b>	Indicate if you have participated under direct supervision in the preparation, calculation, administration and documentation of medication to woman/baby

**The registered midwife/nurse who is administering medication must adhere to the Ten 'Rights' of medication administration when administering medications to women/babies/clients (NMBI, 2020, pg16). Year 2 and Year 3 midwifery students must have direct supervision in relation to medication management and medication administration.**

- 1. Right Patient:** Be certain of the identity of the woman/baby to whom the medicine is being administered by verifying the identification wristband, photograph or name and date of birth on the medicine chart.
- 2. Right Reason:** Understand the intended purpose of the medicines to be administered
- 3. Right Drug:** Confirm that the name of the dispensed medicine to be administered corresponds with the generic or brand name of the prescribed medicine, and she/he must only administer a viable medicinal product – that is, properly packaged and within its expiry date. The midwife/nurse must also check, both by asking the patient and inspecting the allergy status box on the medicines chart, whether the woman/baby has a known and recorded allergy to the prescribed drug or no known allergies. The allergy box must be completed.
- 4. Right Route:** Administer the medicine via the prescribed anatomical route and site (e.g. oral, subcutaneous injection, intramuscular injection, rectal, inhalation, intravenous etc.)
- 5. Right Time:** Administer the medicine at the prescribed time and prescribed intervals.
- 6. Right Dose:** Confirm, through arithmetical calculation that the dose of the medicine being administered concurs exactly with the dose prescribed. Where the local [Policies, Procedures, Protocols and Guidelines](#) (PPPGs) identify this process for high risk medicines, the dose must be independently verified.
- 7. Right Form:** Confirm that the form of medicine that has been dispensed matches with the specified route of administration.
- 8. Right Action:** Ensure the medicine is prescribed for the appropriate reason and state to the woman the action of the medicine and why it is prescribed (Right Action).
- 9. Right Documentation:** Sign, date and retain all documentation recording the administration of each medicine in the medicines administration chart (or other document directing the administration of a medicine). The chart must only be signed to record a medicine has been administered once the medicine administration has been witnessed.
- 10. Right Response:** Observe the woman/baby for adverse effects, and assess the woman/baby to determine that the desired effect of the medicines has been achieved

**\*The information you require can be obtained from a few sources including: [www.medicines.ie](http://www.medicines.ie) which contains accurate, up to date, regulator approved information on medicines available in Ireland (Medicines.ie, 2019), Hospital Formulary, The Irish Medicines Formulary, the British National Formulary, the hospital/community pharmacist, doctors, nursing/midwifery colleagues, articles, local hospital policies and guidelines, NMBI & HIQA guidelines and UCD lecture notes on medication administration and pharmacology lecture notes.**

It is of the utmost importance that there is evidence of the student's ongoing understanding regarding the core elements of medication administration and management as outlined in every phase of his/her programme from Stages 1 to 4

**Always refer to the local Medication Policy for Medication Administration and Management**

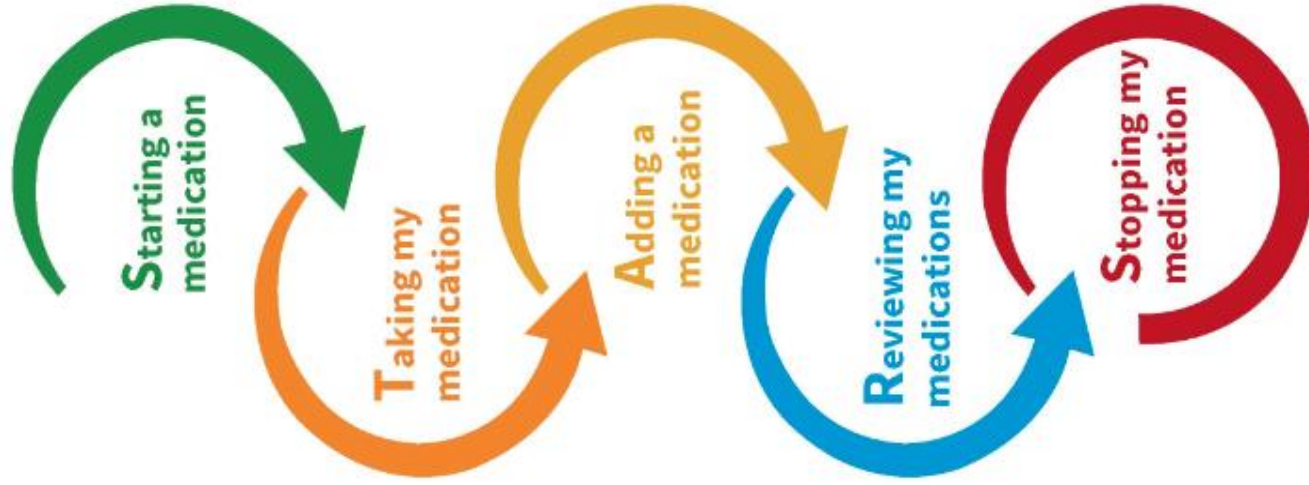


# The Ten Rights of Medication Management





# 5 Moments for Medication Safety



- ▶ What is the name of this medication and what is it for?
- ▶ What are the risks and possible side-effects?
- ▶ Is there another way of treating my condition?
- ▶ Have I told my health professional about my allergies and other health conditions?
- ▶ How should I store this medication?
- ▶ When should I take this medication and how much should I take each time?
- ▶ How should I take the medication?
- ▶ Is there anything related to food and drink that I should know while taking this medication?
- ▶ What should I do if I miss a dose of this medication?
- ▶ What should I do if I have side-effects?
- ▶ Do I really need any other medication?
- ▶ Have I told my health professional about the medications I am already taking?
- ▶ Can this medication interact with my other medications?
- ▶ What should I do if I suspect an interaction?
- ▶ Will I be able to manage multiple medications correctly?
- ▶ Do I keep a list of all my medications?
- ▶ How long should I take each medication?
- ▶ Am I taking any medications I no longer need?
- ▶ Does a health professional check my medications regularly?
- ▶ How often should my medications be reviewed?
- ▶ When should I stop each medication?
- ▶ Should any of my medications not be stopped suddenly?
- ▶ What should I do if I run out of medication?
- ▶ If I have to stop my medication due to an unwanted effect, where should I report this?
- ▶ What should I do with leftover or expired medications?



### Antenatal Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:**\_\_\_\_\_
**Date:** \_\_\_\_\_
**Preceptor Signature:**\_\_\_\_\_
**Date:**\_\_\_\_\_

### Antenatal Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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 **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Antenatal Placement (4)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Antenatal Placement (5)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Intranatal Placement (1)**

<b>Medication Generic/Brand/Trade Name</b> Choose medication related to specific clinical area	<b>Medication Group and Indications</b>	<b>Dose And Route</b>	<b>Frequency</b>	<b>Peak Action/ duration of action</b> (If available)	<b>Contraindications/ cautions/Midwifery Considerations</b>	<b>Side- effects</b>	<b>Observed administration of medication</b>	<b>Participates under direct supervision in preparation, calculation, administration and documentation of administered medication</b>

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Intranatal Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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### Postnatal Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_
 **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Postnatal Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observed administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Preceptor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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**Student Signature:**\_\_\_\_\_
 **Date:** \_\_\_\_\_
 **Preceptor Signature:**\_\_\_\_\_
 **Date:**\_\_\_\_\_



### Gynae Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_
 **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Gynae Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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### Gynae Placement (3)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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### Neonatal Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Nursing or Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_
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### Neonatal Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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### High Dependency Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Preceptor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### High Dependency Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Preceptor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Mental Health Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Nursing or Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_
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### Mental Health Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Nursing or Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_
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### Theatre & Recovery Placement (1)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Nursing or Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_
 **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Theatre & Recovery Placement (2)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Nursing or Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

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### Theatre & Recovery Placement (3)

Medication Generic/Brand/Trade Name Choose medication related to specific clinical area	Medication Group and Indications	Dose And Route	Frequency	Peak Action/ duration of action (If available)	Contraindications/ cautions/Nursing or Midwifery Considerations	Side- effects	Observes administration of medication	Participates under direct supervision in preparation, calculation, administration and documentation of administered medication

**Student Signature:**\_\_\_\_\_
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 **Date:**\_\_\_\_\_

**Part 2: Anaphylaxis (To be completed before end of Year2)**

Anaphylaxis is a severe, life-threatening, generalised or systemic hypersensitivity reaction.

1. How would you recognise a person has had a reaction to a drug?

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2. What are the key principles of management of anaphylaxis?

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3. What drugs are commonly used in the treatment of anaphylaxis and what dosages are given?

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**Part 3A: Calculations: (To be completed before end of Year2)**

Converting a larger unit of weight, measure or volume to a smaller one	Converting a smaller unit of weight, measure or volume to a larger one
Kilogram (kg) to gram (g) x 1000	Gram (g) to kilogram (kg) ÷ 1000
Gram (g) to milligram (mg) x 1000	Milligram (mg) to gram (g) ÷ 1000
Milligram (mg) to micrograms x 1000	Microgram to milligrams (mg) ÷ 1000
Microgram to nanogram x 1000	Nanogram to microgram ÷ 1000
Litre (l) to millilitre (ml) x 1000	Millilitre (ml) to litre (l) ÷ 1000

**Please calculate the following. Show how you achieved your answer.** (Once completed refer to Part 5 to self-assess your answers)

Metric Conversions:

A)

0.6 grams = \_\_\_\_\_ mg

B)

300 microgram = \_\_\_\_\_ mg

C)

0.85 mg = \_\_\_\_\_ micrograms (mcg)

D)

0.125 mg = \_\_\_\_\_ micrograms

E)

175 micrograms = \_\_\_\_\_ mg

F)

356 mg = \_\_\_\_\_ grams

**Part 3B: Answer the following questions in relation to the listed medications (Please refer to Part 6 to self-assess your answers)**

1. Mary is prescribed Betamethasone 12mg IM. Betamethasone is available in 4mg/ml vials.

- a. How many vials will be required? \_\_\_\_\_
- b. What volume will be administered in mls? \_\_\_\_\_
- c. What syringe should you choose to administer this medication? 1ml, 2ml or 5ml syringe. \_\_\_\_\_

2. Mary is prescribed Eltroxin 0.25mg PO. 125mcg per tablet available.

- a. How many tablets will be required? \_\_\_\_\_

3. Mary is prescribed Pethidine 75mg IM 4-6hourly. Pethidine is available in 100mg/2ml vials

- a. How many vials will be required? \_\_\_\_\_
- b. What volume will be administered in mls? \_\_\_\_\_
- c. What volume syringe should you choose to administer this volume? 1ml, 2ml, 5ml \_\_\_\_\_

4. MDA Schedule 2 Drugs (refer to local policy and NMBI guidance)

- a. Name two regularly used MDA Schedule 2 Drugs used in maternity care \_\_\_\_\_
- b. Outline where MDA Schedule 2 Drugs should be stored? \_\_\_\_\_  
\_\_\_\_\_
- c. Outline the documentation that should be completed during the preparation and administration of MDA Schedule 2 Drugs \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### Part 4: Medication Case Study

This case study will assist you to link your knowledge of medications to the care that you deliver to individuals.

Identify an individual who is receiving medication & provide the information below.

Write a short case study identifying any pertinent information.

##### Medication Case Study 1 (Antenatal)

Gestation:		Maternal Age:		Parity:	
Past obstetric history:					
Other relevant history:					
Present Diagnosis:					
Medication Generic/Brand/Trade Name		Action Medication:		Side Effects/Midwifery Considerations:	
Short case history:					

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Medication Case Study 2 (Labour)**

Age:	Parity:	Type of Delivery:	Infant Feeding:
Obstetric History:			
Other relevant history:			
Present Diagnosis:			
Medication Generic/Brand/Trade Name	Action Medication	Side Effects/Midwifery Considerations:	Contraindications:
Short case study:			

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_



**Medication Case Study 3 (Postnatal)**

Gestation:	Age:	Parity:	
Obstetric History:			
Other relevant history:			
Present Diagnosis:			
Medication Generic/Brand/Trade Name	Action Medication:	Side Effects/Midwifery Considerations	Contraindications:
Short case study:			

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Medication Case Study 4 (Gynae)

Age:	Parity:	Type of Delivery:	InfantFeeding:
Obstetric History:			
Other relevant history:			
Present Diagnosis:			
Medication Generic/Brand/Trade Name	Action Medication	Side Effects/Midwifery Considerations	Contraindications:
Short case study:			

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Medication Case Study 5 (Any clinical area)**

Gestation:	Age:	Parity:	
Obstetric History:			
Other relevant history:			
Present Diagnosis:			
Medication Generic/Brand/Trade Name	Action Medication:	Side Effects/Midwifery Considerations	Contraindications:
Short case study:			

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Preceptor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### **Part 5: Answers to Part 3A**

A=600mgs

B=0.3mg

C=850 micrograms

D=125mcg

E=0.175mg

F=0.356grams

### **Part 6: Answers to Part 3B**

**1.**

a. =3

b. =3mls

c. 5ml syringe

**2.**

a. 2 tablets

**3.**

a. 1 vial

b. 1.5mls

c. 2ml syringe

## Adult Venepuncture

### BSc Midwifery and Higher Diploma Midwifery Students

The Nursing and Midwifery Board of Ireland outline in the Midwife Registration Programme Standards and Requirements that students should gain experience of adult venepuncture during their midwifery registration education programme (NMBI, 2016). This document outlines the standardised approach that is taken to the education, training, and competence validation for UCD Midwifery students in adult venepuncture. This approach follows the guiding framework for education, training and competence validation in venepuncture and peripheral intravenous cannulation for Nurses and Midwives (HSE/ONMSD, 2017), the addendum for BSc Midwifery students (HSE/ONMSD, 2020a) and the addendum for HDip Midwifery students (HSE/ONMSD, 2020b). The venepuncture programme for BSc Midwifery and HDip Midwifery students is delivered in partnership with Ireland East Hospital Group clinical partners who will account for practice assessments in the clinical area. Midwifery students are required to adhere to the local hospital policies, procedures, protocols, and guidelines in relation to adult venepuncture.

#### Learning Outcomes

Upon successful completion of this programme, participants will:

- Be able to identify the anatomical structures and appropriate choice of sites applicable to adult venepuncture
- Describe the role of the midwife in undertaking the skill of venepuncture
- Outline the indications for venepuncture
- Communicate with women and their families to facilitate safe and effective venepuncture
- Demonstrate knowledge of:
  - Procedure preparation and how to gain informed consent
  - The effective technique for the procedure
  - The documentation and management of complications
- Demonstrate competence in the skill of adult venepuncture
- Practice under appropriate supervision for their level
- Maintain competence in accordance with scope of practice and local hospital policy

**The theoretical components of the programme are administered by UCD as follows:**

1. The midwifery student obtains a copy of the learner handbook via Brightspace
2. The midwifery student completes the theoretical component of the blended learning programme e-learning module online via [www.hseland.ie](http://www.hseland.ie).
3. The student midwife must successfully complete the online self- assessment test.
4. Certificates of completion are uploaded to the assessment folder in Brightspace, and the midwifery student will then be permitted to attend the adult venepuncture clinical skills workshop.
5. The midwifery student attends the clinical skills workshop. Students will be given the opportunity to practice venepuncture skills and will be assessed by facilitators. If a student is unsuccessful in this assessment, an action plan is agreed with the facilitator and the assessment will be repeated. Students must achieve a pass in this clinical skills assessment in order to progress to the clinical practice assessments.
6. Once a pass has been achieved, the facilitator will record this outcome in Brightspace and will also sign the following page in the clinical experience record book: Adult Venepuncture–Record of Supervised Practice and Competence Assessment
7. A certificate of completion for the theoretical components of the programme will be emailed to each student via Brightspace.
8. The midwifery student may now proceed to clinical practice assessments on their next clinical placement.

**The clinical practice and competency assessment component of the programme is administered by the clinical partner site as follows:**

1. The midwifery student should observe two venepuncture procedures in the clinical area before proceeding to supervised practice.
2. The midwifery student must successfully complete 5 supervised practice assessments, followed by the final competency assessment.
3. Clinical assessors must be certified and competent in adult venepuncture. Midwifery students may not assess other midwifery students.
4. If unsuccessful in the competency assessment, the student is referred to the clinical placement co-ordinator (BSc) / clinical co-ordinator (HDip) and an action plan is agreed. Once the components of the action plan have been completed then the midwifery student restarts and must successfully complete the 5 clinical practice assessments before proceeding to the competency assessment.
5. The practice assessments and final competency assessment should be completed within 12 weeks. If more than 12 weeks lapse, the student must re-do the HSEland elearning module and submit evidence of this with their clinical practice assessment form. If the student requires additional learning support, they should contact their clinical placement co-ordinator (BSc) / clinical co-ordinator (HDip).
6. Once the competency assessment is complete, the midwifery student should inform their clinical placement co-ordinator or clinical co-ordinator. If the form is completed correctly, they will then sign the appropriate section in both the form itself and the record of workshops, mandatory education and training
7. If the midwifery student wishes to obtain a certificate of completion they should request this from the Education and Practice Development Dept in the National Maternity Hospital.

### **Maintenance of competence**

Upon completion of the skill pathway, midwifery students should continue to maintain competence under appropriate supervision for their level of clinical placement, in collaboration with their preceptor (according to hospital policy).

### **References**

HSE/ONMSD (2017) *Guiding Framework for the Education, Training and Competence Validation in Venepuncture and Peripheral Intravenous Cannulation for Nurses and Midwives*. Dublin: Health Service Executive.

HSE/ONMSD (2020a) *Skill Pathway for Venepuncture and/or Peripheral Intravenous Cannulation for Pre-Registration Undergraduate Nursing and Midwifery students during Internship Period*. Dublin: Health Service Executive.

HSE/ONMSD (2020b). *Skill Pathway for Venepuncture and/or Peripheral Intravenous Cannulation for students undertaking the Post RGN Midwife Registration Education Programme – Higher Diploma in Midwifery (draft)*. Dublin: Health Service Executive.

NMBI (2015) *Scope of Nursing and Midwifery Practice Framework*. Dublin: Nursing and Midwifery Board of Ireland.

NMBI (2016) *Midwife Registration Programmes Standards and Requirements*. Dublin: Nursing and Midwifery Board of Ireland

### Adult Venepuncture-Record of Supervised Practice and Competence Assessment

I am satisfied that (print name) _____ has completed the necessary adult venepuncture theory programme, attended the clinical skills lab and is now eligible to proceed to supervised practice assessments.											
<b>UCD Tutor (print):</b>			<b>UCD Tutor (sign):</b>				<b>Date:</b>				
<b>Date Practice Assessments Started:</b>			<b>Date Competency Achieved:</b>								
<i>The student must be able to discuss the rationale for each of the actions and demonstrate competence in the practical application of these skills.</i>					<b>5 Supervised Practice Assessments Achieved = √ Not Achieved = X</b>			<b>Competence Assessment</b>			
<b>Skill Required</b>					1	2	3	4	5	Pass	Refer
A	Perform hand hygiene as per WHO 5 moments for hand hygiene										
B	Check correct identification of patient and any allergies the patient has e.g. to tape or skin cleaning solutions										
C	Gain verbal consent. Ensure appropriate preparation of and communication with patient throughout procedure										
D	Correct positioning of patient and preparation of environment										
E	Considers personal safety and that of others e.g. use of PPE etc.										
F	Selects appropriate vein site and equipment for procedure										
G	Provides local anaesthesia (as per organisation policy)										
H	Completes venepuncture procedure correctly and safely										
I	Correct order of draw for multiple samples										
J	Demonstrates appropriate troubleshooting techniques if required										
K	Demonstrates aseptic non touch technique, throughout the procedure										
L	Demonstrates disposal of sharps and equipment correctly and safely										
M	Demonstrates appropriate decontamination of equipment used (as per IP&C)										
N	Completes documentation in healthcare records (as per healthcare organisation policy)										
<b>Initial of Clinical Assessor:</b>											
<b>Initial of Student Midwife:</b>											
<b>Date:</b>											
Final Outcome of Competence Assessment (tick √)			<b>Pass:</b>		<b>Refer</b>		<i>Print name and sign below to validate final outcome</i>				
<b>Student Midwife (print):</b>				<b>Sign:</b>		<b>Date:</b>		<b>Initials:</b>		<b>NMBI No:</b>	
<b>Clinical Assessor (print):</b>				<b>Sign:</b>		<b>Date:</b>		<b>Initials:</b>		<b>NMBI No:</b>	
Note of action plan if referred for further assessment:											
Action Plan Agreed (sign if applicable) <b>Student Midwife:</b>					<b>Clinical Assessor:</b>			<b>Date:</b>		<b>Tick Box</b>	
I have read name of Organisation _____ policies, procedures and guidelines in relation to venepuncture										Yes	No
I have read the “Code of Professional Conduct and Ethics for Registered Nurses and Registered Midwives” (NMBI 2014)										Yes	No
I have read the “Scope of Nursing and Midwifery Practice Framework” (NMBI 2015)										Yes	No
The assessments were completed within 12 weeks, if not, I have retaken the HSEland e-learning programme										Yes	No
Competence agreed for venepuncture: I agree to maintain my clinical competence in venepuncture in line with the “Scope of Nursing and Midwifery Practice Framework” (NMBI 2015)										Yes	No
<b>Student Midwife (sign):</b>				<b>Clinical Assessor (sign):</b>				<b>Date:</b>			
I am satisfied that the above named student has completed the supervised practice and the competence assessment											
<b>CPC/CC (print):</b>				<b>CPC/CC (sign):</b>				<b>Date:</b>			

*Adapted from (HSE, 2017) Guiding Framework for the Education, Training and Competence Validation in Venepuncture and Peripheral Intravenous Cannulation for Nurses and Midwives*



### Suggested reading:

Berman, A. and Synder, S. (2012) *Kozier & Erb's fundamentals of Nursing: Concepts, Process and Practice*. 9<sup>th</sup> edn., New Jersey: Pearson Prentice Hall.

Brady, A., Malone, A. and Fleming, S. (2009) 'A literature review of the individual and systems factors that contribute to medication errors in nursing practice', *Journal of Nursing Management*, 17, pp.679- 697.

Dougherty, L., Lister, S., and West-Oram A. (eds) (2015) *The Royal Marsden Hospital Manual of Clinical Nursing Procedures*. 9<sup>th</sup> edn., Oxford: Wiley Blackwell Publishing.

Drach-Zahavy, A. and Pud, D. (2010) 'Learning mechanisms to limit medication administration errors', *Journal of Advanced Nursing*, 66(4),pp.794-805.

Gatford,D.J; Philips, N.(2016) *Nursing Calculations*, Elsevier, London

Health Information and Quality Authority (2015) *Medicines Management Guidance*. Dublin: Health Information and Quality Authority

Health Products Regulatory Authority (2014) *Safety Information*. Available online: <http://www.hpra.ie/homepage/medicines/safety-information>

Jones, S.W. (2009) 'Reducing medication administration errors in nursing practice', *Nursing Standard*, 23 (50), pp40-46.

Jordan, S., (2010) *Pharmacology for Midwives: The Evidence Base for Safe Practice*. 2nd Edition. Palgrave Macmillan

Nursing and Midwifery Board of Ireland (2015) *Scope of Nursing and Midwifery Practice Framework*. Dublin: NMBI.

Nursing and Midwifery Board of Ireland (2020) Guidance for Registered Nurses and Midwives on Medication Administration. Available at: <https://www.nmbi.ie/Standards-Guidance/Medicines-Management> (Accessed 1 September 2020)

Reid-Searl, K., Moxham, L. and Happell, B. (2010) 'Enhancing patient safety: The importance of direct supervision for avoiding medication errors and near miss by undergraduate nursing students', *International Journal of Nursing Practice*, 16,pp.225-232.

Royal Pharmaceutical Society of Great Britain (2011) \* Available online at: <http://www.bnf.org/bnf/index.htm>. (Accessed: 21 March 2012)

World Health Organizations (2019) 5 Moments for medication safety, Available at: <https://www.who.int/patientsafety/medication-safety/5moments/en/> (Accessed: 09<sup>th</sup> October, 2019)

## Useful websites

Drug calculations quiz page(2012) Available online at: <http://www.testandcalc.com/quiz/index.asp> (Accessed 20<sup>th</sup> August 2018)

Dosagehelp.com(2018) Available online at: <http://www.dosagehelp.com/> (Accessed: 20<sup>th</sup> August 2018)

Middlesex University (2018) Understanding numeracy questions for nurses. Available online at: <http://www.youtube.com/user/ellsmdx> (Accessed 29<sup>th</sup> June 2020)

Middlesex University (2018) Calculating volumes for injection. Available online at: <http://www.youtube.com/user/ellsmdx> (Accessed 29<sup>th</sup> June 2020)

Middlesex University (2012) Metric unit conversion 1 – exercises. Available online at: <http://www.youtube.com/user/ellsmdx> (Accessed 29<sup>th</sup> June 2020)

Middlesex University (2012) Metric unit conversion 2 – exercises. Available online at: <http://www.youtube.com/user/ellsmdx> (Accessed 29<sup>th</sup> June 2020)

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School of Nursing and Midwifery Flinders University (2012) Basic drug calculations. Available online at: <http://nursing.flinders.edu.au/students/studyaids/drugcalculations/> (Accessed 29<sup>th</sup> June 2020)

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<https://www.resus.org.uk/anaphylaxis/emergency-treatment-of-anaphylactic-reactions/>