



PHARMACY 'FAST TRACK' TRAINING PROGRAMME FOR THE PREPARATION OF INJECTABLE MEDICATION

Pharmacy Staff Member Name_	
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Date	

Author: Diane Taylor, Pharmacy Technical Services Manager

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Ratified by: Gareth Price - Chief Pharmacist

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Introduction

During the emergency period relating to Covid-19, pharmacy staff may be redeployed to support the preparation of critical injectable medicines to meet the increasing demand, facilitate releasing nursing time to care and to reduce the wastage of critical medicines. In the first instance, where capacity allows, preparation will take place within the department's Aseptic unit.

This 'fast track' training programme provides the minimum education and competency assessment for pharmacy staff to safely prepare injectable medicines.

Scope

- The information contained in this document applies to the preparation of injectable medication.
- The training programme applies only to the preparation of intravenous, subcutaneous, intramuscular, bolus and infused medicines. It does **not** apply to medicines prepared for epidural or spinal injection.
- This training programme does not apply to the administration of injectable medicines.
- Assessments and competency observations will be completed by Pharmacy Aseptic Unit Head of Production or Head of Quality or their designated deputy.
- This training programme is valid only for the duration of the current COVID-19 emergency situation.
- This training programme is designed to be undertaken by Accuracy Checking Pharmacy Technicians and or Pharmacists in the first instance. Ideally trainees will have experience of working in Good Manufacturing Practice (GMP) based aseptic environment.

Recognised Accuracy Checking programmes are defined as:

- Final Accuracy Checking of dispensed items
- Pre and In Process Checking within aseptic services
- Final Accuracy Checking within aseptic services
- Product Approval Accreditation

Consideration may be given to suitably trained and experienced Pharmacy Technicians/Assistant should workforce resource dictate

- Pharmacy Technicians and Pharmacists undertaking this role should always adhere to regulatory professional standards and appropriate professional guidance, including any such guidance relating specifically to roles carried out during the COVID 19 pandemic.
- A joint letter from the Department for Health and Social Care, NHS Resolution, and NHS England and NHS Improvement: 'clinical negligence indemnity in response to Coronavirus' outlines indemnity arrangements for HCP whilst working differently during the pandemic. https://resolution.nhs.uk/wp-content/uploads/2020/03/20200402-Tripartite Indemnity letter.pdf
- Pharmacy Technicians and Pharmacists should adhere to the scope of practice covered in the training programme:
 - Reconstitution of powdered injection
 - Preparation of an Ecoflac Plus 100mL
 - Withdrawing solution into a syringe and injecting into an intravenous fluid bag
- Practice will be limited to the list of priority medicines outlined the LTHTR Procedure for Preparation of Injectable Medicines by Pharmacy Technicians and Pharmacists.
- Pharmacy Technicians and Pharmacist must familiarise themselves with the method of preparation for the specific priority medicine prior to commencing any preparation.

Training and Competency Time Table

Complete LTHTR Blended Learning programme Aseptic Non Touch Technique training https://elearning.lthtr.nhs.uk/course/search.php?search=ANTT Read National Patient Safety Agency March 2007 'Promoting Safer use of Injectable Medicines' 2007-NRLS-0434F-Pr omoting-safeSOP-ten Read Specialist Pharmacy Service Guidance March 2020 'COVID-19 Guidance: Minimising Wastage of Critical Injectable Medicines'	
https://elearning.lthtr.nhs.uk/course/search.php?search=ANTT Read National Patient Safety Agency March 2007 'Promoting Safer use of Injectable Medicines' 2007-NRLS-0434F-Pr omoting-safeSOP-ten Read Specialist Pharmacy Service Guidance March 2020 'COVID-19 Guidance: Minimising Wastage of Critical 30 minutes	
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https://www.sps.nhs.uk/wp-	
content/uploads/2020/04/COVID-19-Guidance-	
Minimising-Wastage-of-Critical-Injectable-Medicines-	
clinical-areas-V2b.pdf	
Read Specialist Pharmacy Service Guidance April 30	
2020, 'Preparation of injectable medicines at the ITU minutes	
bedside: quick reference guides'	
https://www.sps.nhs.uk/wp-	
content/uploads/2020/04/Bedside-preparation-aid-	
cards-for-clinical-areas.pdf	
Watch Drug Preparation with Ecoflac Connect video 5	
https://www.youtube.com/watch?v=ib2hIb-gZ88 minutes	
Aseptic Practical Training 60mins	
Skills Practice 45mins	
Observed Competency for preparation of 30	
Performance Criteria should be observed maximum minutes	
3 times by the assessor hour	
Reconstitution of powdered injection	
Preparation of an Ecoflac Plus 100mL	
Withdrawing solution into a syringe and	
injecting into an intravenous fluid bag	

Observed Competency Assessment for the Preparation of Injectable Medication

Reconstitution of Powdered Vial

Performance Criteria should be observed maximum 3 times by the assessor

Performance Criteria	Competency	Assessor signature	Trainee Signature
Cleaning techniques are performed	Level	Signature	Signature
correctly			
Labels are produced and completed correctly			
Appropriate needles, syringes, etc. selected			
Raw materials are selected correctly			
Able to manipulate syringes, needles			
correctly			
Able to manipulate syringes, needles aseptically			
Reconstitutes powdered vial correctly			
Withdraws reconstituted solution into syringe			
Attaches label to syringe			
Reconciles reconstituted product			
Ensures accuracy check is completed			
Safely disposes of all waste			

Overall Assessment

Competent/Not Competent

A = Proficient
B = Satisfactory
C = Requires further training
D = Unsatisfactory

Comments

Assessor Signature:	Date	:	
Preparation of Injectable Medication (using Ecoflac De	vice	
Performance Criteria should be observe	ed maximum 3 t	imes by the	assessor
Performance Criteria	Competency Level	Assessor signature	Trainee Signature
Cleaning techniques are performed correctly			
Work sheet and labels are produced and completed correctly			
Appropriate Ecoflac devices selected			
Raw materials are selected correctly			
ANTT technique is performed			
Reconstitutes powdered vial correctly			
using Ecoflac device			
Attaches label to bottle			
Reconciles reconstituted product			
Ensures accuracy check is completed			
Safely disposes of all waste			
Overall Assessment C	Competent/Not	Competent	
	_		
A = Proficient			
B = Satisfactory			
C = Requires further training			
D = Unsatisfactory			
Comments			
Assessor Signature:	Date	•	

Withdrawing Solution into Syringe and injecting into intravenous bag

Performance Criteria should be observed maximum 3 times by the assessor

Performance Criteria	Competency	Assessor	Trainee
	Level	signature	Signature
Cleaning techniques are performed			
correctly			
Work sheet and labels are produced and			
completed correctly			
Appropriate needles, syringe, etc. selected			
Raw materials are selected correctly			
Able to manipulate syringe, needles			
correctly			
Able to manipulate syringe, needles			
aseptically			
Draws up solution correctly and injects			
into IV bag			
Attaches label to bag			
Reconciles reconstituted product			
Ensures accuracy check is completed			
Safely disposes of all waste			
Overall Assessment C			•

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Competent/Not Competent

A = Proficient
B = Satisfactory
C = Requires further training
D = Unsatisfactory
Comments

Assessor Signature:______Date:_____

Checklist for the Reconstitution a Powdered Vial

Checklist for the Reconstitution of Medication using an Ecoflac device

Process	Completed
Selects the required medication and what kend checks	
Drug name	
Drug strength	
• โซต์เนาต่อโสดาide 0.9% Ecoflac Plus 100mL bottle	
Washes hand with bactericidal soap and water or bactericidal	
alcohol hand rub, and assembles necessary equipment.	
Washes hands with bactericidal soap and water or bactericidal piluent alcohol hand rub, and assembles necessary equipment.	
ESSENTIAL EQUIPMENT Syringe filter straw/cap Economic Connect	
 Sharps Container Alconol wipes 	
Applies gloves and apron/ ensures cleaning techniques are performed confectly loves and apron/ ensures cleaning techniques are performed	
Removes one protective tab on Sodium Chloride 0.9% Ecoflac Plus Poons packaging and established Republiker straw to the syringe.	
Reproves prokective appoints and who esterned with into the wipe	
Opens Ecoflac connect	
Attaches Ecoflac connect to Sodium Chloride 0.9% Ecoflac Plus Swahs the neck of the ampoule with an alcohol wipe, covers the neck	
Attaches other end of Econal wipe and snaps it open. If there is any difficulty, an ampoule opening device may be required	
Slowly squeezes Ecoflac Plus 100mL sodium chloride 0.9% into the prower within the view of the provider of the	
Removes protective cap from vial and wipes vial with alcohol wipe	
Injects the diluent slowly into the powder within the vial, equalising pressure	
Inspect the contents Agitates the vial	
When the solution is clear, elevates vial and squeezes bottle to allow inspect the contents for particulates? Ecoflac Plus 100mL sodium	
chloride 0.9% bottle When the solution is clear, withdraws the prescribed amount, tilting	
the vial in econtents of the vial has transferred into the Ecoflac Plus	
100mL sodium chloride 0.9% bottle Tans the syringe to dislodge any air bubbles. Expels air	
Leaves eray in a exist en la language actives la papel les « Penels de la language en la languag	
Washes hands needle into appropriate sharps container and attaches a plastic end cap or new needle	
Attaches a label to the syringe.	
Places syringes in a clinically clean tray	
Washes hands thoroughly	
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Process	Completed
Selects the required medication and checks	
Drug name	

Checklist for the withdrawing of medication from an ampoule into a syringe

Drug strength	
Expiry date	
Washes hands with bactericidal soap and water or bactericidal	
alcohol hand rub, and assembles necessary equipment.	
ESSENTIAL EQUIPMENT	
Needle	
Syringe/filter straw/cap	
Sharps container	
Alcohol wipes	
Applies gloves and apron/ ensures cleaning techniques are performed correctly	
Opens packaging and attaches needle or filter straw to the syringe.	
Taps the neck of the ampoule gently to release diluent into the ampoule.	
Swabs ampoule neck with alcohol wipe, covers the neck of the	
ampoule with an alcohol wipe and snaps it open. If there is any	
difficulty, an ampoule opening device may be required	
Draws up required volume of medication	
Inspect the contents	
Taps the syringe to dislodge any air bubbles. Expels air.	
Discards used needle or filter straw into appropriate sharps container and attaches a plastic end cap or new needle	
Attaches a label to the syringe.	
Places syringes in a clinically clean tray	
Washes hands thoroughly	

Checklist for the withdrawing of medication from an ampoule into a syringe and injecting into an intravenous fluid bag

Process	Completed
Selects the required medication and checks	

Drug name	
 Drug strength 	
Expiry date	
Washes hands with bactericidal soap and water or bactericidal	
alcohol hand rub, and assembles necessary equipment.	
, , , ,	
ESSENTIAL EQUIPMENT	
 Needle 	
 Syringe/filter straw/cap 	
 Sharps container 	
Alcohol wipes	
Applies gloves and apron/ensures cleaning techniques are performed	
correctly	
Opens packaging and attaches needle or filter straw to the syringe.	
- 1 (1)	
Taps the neck of the ampoule gently to release diluent into the	
ampoule. Swabs ampoule neck with alcohol wipe, covers the neck of the	
ampoule with an alcohol wipe and snaps it open. If there is any	
difficulty, an ampoule opening device may be required	
Draws up required volume of medication	
Draws up required volume of medication	
Inspect the contents for particles	
Taps the syringe to dislodge any air bubbles. Expels air.	
Discards used needle or filter straw into appropriate sharps container	
and attaches a green needle	
Removes outer packaging from IV bag	
Wipes IV bag port with alcohol wipe	
wipes in bag port with alcohol wipe	
Injects contents of syringe into IV bag taking care not to puncture the	
IV bag.	
Removes syringe from IV bag and wipes IV bag port with alcohol wipe	
Attaches suitable cap to port	
Labels IV bag	
Disposes of syringe in sharps container	
Washes hands thoroughly	

Checklist for the withdrawing of medication from a liquid vial into a syringe

Process	Completed
Selects the required medication and checks	
Drug name	
Drug strength	
Expiry date	
Washes hands with bactericidal soap and water or bactericidal	
alcohol hand rub, and assembles necessary equipment.	
ESSENTIAL EQUIPMENT	
Needle	
Syringe/needle /cap	
Sharps Container	
Alcohol wipes	
Applies gloves and apron/ ensures cleaning techniques are performed correctly	
Opens packaging and attaches needle to the syringe.	
Removes protective cap from vial and wipes vial with alcohol wipe	
Withdraws the prescribed amount, equalising pressure /tilting the vial	
if necessary.	
Taps the syringe to dislodge any air bubbles. Expels air.	
Inspect the contents for particulates	
Discards used needle into appropriate sharps container and attaches a plastic end cap or new needle	
Attaches a label to the syringe.	
Places syringes in a clinically clean tray	
Washes hands thoroughly	_