





NCIS Training Guide For Recording Volume Checks

Document Ref: NCIS_TRAIN_21

1. Background

NCIS.Med provides a solution for compounding SACT and other associated drugs. There are always challenges when moving from a predominantly paper based system to an electronic system, including documentation of preparation steps. This guide gives some of the options available in NCIS.Med for recording the volume check during volumetric preparation.

2. Guided Preparation

It is possible to undertake preparation using a Guided Process in NCIS.Med. This usually involves the preparer using a screen inside or near the isolator which gives step by step verifiable instructions at each preparation step.

- 1. For guided preparation where a technician is compounding in an isolator with a screen, the technician doing the compounding is logged in (green box in Figure 1).
- 2. In the bottom left corner of Figure 1 (red box), a second person logs as the "assistant/check."
- 3. The responsibilities of this "assistant/check" should be defined in local workflow processes, but could, for example, be a technician/pharmacist who does volume checks during compounding.

🌞 BD Cato™ 2.46.06.11 + DB 12506 + cato_usertraining 🛛 O Leary Caoimhe, COL @ MUH		
🛱 🏠 💭 🚔 🚺 💄 🛛 Master data 🛛 Reference data 🛛 Therapy	Preparations Reports Tools Administration	T
Preparations		×
Preparations: All Gravimetric: 0, Volumetric: 1, Assembly: 0	Display only hazardous	Display all interrupted preparations Preparation site: MUH
😓 Prep. no. Product(s)	Administration Patient(s)	Unit(s) Medication(s)
V 1032 DOXOrubicin Teva Concentrate for solution for infusion	Wed, 22/04/2020 08:00 Cobb Frida Image: Second Se	MUH - MUH Ward I 18226
Details for selected preparation		
# 1: Med. no. 18226: DOXOrubicin Teva Concentrate for solution for infusion 5	28mg Bolus by intravenous injection over 15 min, Frida Cobb, No unit	
Prepare <enter> Cancel interrupted preparation <f6></f6></enter>		Start preparation directly (barcode):
Assistant/check: <no selection=""> Log on</no>		Set up preparation <f4> Reconstitute in advance <f7></f7></f4>

Figure 1: Assistant/check log in screen

4. Working through the steps of the guided preparation, depending on local workflow, it is possible to choose where checks take place. The preparation can be interrupted if a different volume checker needs to take over for some reason (using the F3 function key), it is also possible to skip certain checks etc.:

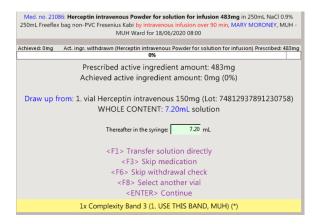


Figure 2: example of guided preparation step

5. When the preparation is completed, there are a number of places where the preparation of the product can be traced. When using the guided preparation method each preparation step is documented in real time, In the documentation screen (*Figure 3*), the "report for the preparation" can be generated (*figure 4*), which includes the preparer and assistant check details, or a detailed "preparation log" (*figure 5*) which outlines every step of the preparation.

Docum	entation										×
 Filter by Search r 	-		Period:	Today	(from 25/06/2020 to 25/06/2020)					2 Refi	_
C Search p			Dosage form:				1 T	1		ite: MUH	
Prep.no.	Туре	Products				Date	St	art I	End	Prep.	3
1103	Vol.	Herceptin int	travenous Powder	r for solution fo	or infusion	25/06/20	020 10	:52 1	10:53	COL	V
1104	Vol.					25/06/20	20 11	:01 1	1:03	COL	
1105	Vol.					25/06/20	020 11	:05 1	1:05	COL	
1106	Vol.	DOCEtaxel A	ccord Concentrat	e for solution f	or infusion	25/06/2	20 11	:06 1	1:07	COL	
Medication	ns of the sele	ected preparati	on:			Print report for this preparation			Print lo	9]
	Patients		Ordered	Actual	Dosage form		3	Medica	tion lab	el	
Med.no.	Patients	·	dose	dose	bougetonn		~		Channe 1	la la al	•
21085		RONEY MARY		dose 483mg	Herceptin intravenous Powder for solution for infusion	_	v		Show Print		•
					-		V		Show Print Print r	label	.



Active in	gredie	ent quantities				
V	/olume	Active ingredient quantity	Time	Prep. (asst.)	Vial's UID	UID
1	l.4mL	29.4mg	25/06/2020 10:53	COL (muhph4)	48578, 48579, 48580, 48581	692
21	1.6mL	453.6mg	25/06/2020 10:53	COL (muhph4)		693
Product			Nomin	al active Ad	ctual active	Deviatio

Figure 4: Extract from preparation report

Pre	eparation log (Volumetric)	1/3
	paration date: Thu, 25/06/2020, from 10:52 to 10:53 h	
Pre	pared by: COL	
1	[10:52:14] PREPARATION NO. 1103 STARTED ON 25/06/2020 AT 10:52 (BD Cato™ Version: 2.46.6.11)	
2	[10:52:14] Assigned vials:	
3	[10:52:15] 1. vial Herceptin intravenous 150mg (Lot no.: 74812937891230758): UID: 48578	
4	[10:52:15] 2. vial Herceptin intravenous 150mg (Lot no.: 74812937891230758): UID: 48579	
5	[10:52:15] 3. vial Herceptin intravenous 150mg (Lot no.: 74812937891230758): UID: 48580	
6	[10:52:15] 4. vial Herceptin intravenous 150mg (Lot no.: 74812937891230758): UID: 48581	
7	[10:52:15] Volumetric preparation	
8	[10:52:15] Computer name: LAPESP7074, Preparer: O Leary, Caoimhe (COL), Assistant: pharm4, MUH (muhph4)	
9	[10:52:15] Preparation settings: NCIS preparation settings for volumetric workflow	
10	[10:52:15] MESSAGE: "Inject into: 1. vial Herceptin intravenous 150mg (Lot: 74812937891230758) 7.20mL Water for Inject 100mL vial glass Hameln (Lot: 1325315) F2 Do not reconstitute vial now ENTER Continue"	ions
11	[10:52:15] KEY: Key 'ENTER' was pressed!	
12	[10:52:15] Volume: 7.2mL	
13	[10:52:15] NOMINAL DILUENT INJECTION: Reconstitution process 1 for Vial 1, "Water for Injections", Prescribed Volume 7.200mL, equiv. to 7.2mL (7200mg), Density 1.0000000g/mL	
14	[10:52:15] ACTUAL DILUENT INJECTION: Injection status: "Okay", Injected diluent = 7.200g, equiv. to 7.200mL	
15	[10:52:15] SAVED DILUENT INJECTION: Injection status: "Okay", Injected diluent = 7.200g, equiv. to 7.200mL, Current dilumass in vial: 7.200g, Current Total Mass in Vial: 7.351g	Jent
16	[10:52:15] MESSAGE: "Inject into: 2. vial Herceptin intravenous 150mg (Lot: 74812937891230758) 7.20mL Water for Inject 100mL vial glass Hameln (Lot: 1325315) F2 Do not reconstitute vial now ENTER Continue"	ions
17	[10:52:20] KEY: Key 'ENTER' was pressed!	
18	[10:52:20] Volume: 7.2mL	

Figure 5: Extract from preparation report

3. Non-Guided Preparation

It is also possible to use a more manual process where preparation is confirmed without utilising the guided preparation pathway.

- When it comes to the "confirm preparation" functionality, there are a number of different options

 the combination and method used is governed by local processes and workflows:
 - a. For a more paper-based approach, print out the preparation instructions and/or the parts list, and use these as worksheets for the preparation
 - b. It is also possible to print the med labels button to print in-isolator labels

Create/edit parts list		×
Planned preparation time: 25/06/2020 11:21 Preparation method: Volumetric	L Die	splay remainders in all storages
Products		
DOCETaxeel Accord Concentrate for solution for infusion: 1x 160mg (246324626) 120mg Remainder: 40mg		160mg 1x
Total syringes 1x Luer Lok Syringe 10mL polypropylene		
Containers and additional articles (per medication)		2
Med # 21088, MORONEY MARY, Patient no: 1464750, for Thu, 18/06/2020 09:30 (MUH - MUH Ward) 1x NaCl 0.9% 250mL Freeflex bag non-PVC I DOCEtaxel Accord Concentrate for solution for infusion 120mg in 250mL NaCl 0.9% by intravenous infusion 8AND) (?), 1x Light Protection	Fresenius Kabi (47891347893479-), 1x Complexity Band	1 2 (1 USE THIS 📋 📝
Constructions	Barcode verification	Confirm preparation
Parts list	✔ Save parts list	💢 Reject parts list

Figure 6: options for printing instructions, parts list, in-isolator labels

2. The in-isolator label has been configured to allow documentation of the preparation time, preparer and assistant details so that these can be recorded in NCIS after the preparation takes place. For example, if you don't have screens in the isolator and want the preparer/checked details captured in NCIS, these details can be added into NCIS after preparation has occurred.

IN-ISOLATOR PREPARATION LABEL

MARY MORONEY #1464	4750				
Planned Prep: 24/06/2020					
Admin Due: Thu, 18/06/2020	Med#20458				
DOCEtaxel Accord 120mg Volume to add to bag: 6mL					
Add volume to NaCl 0.9% 250 mL Freeflex bag non-PVC					
by intravenous infusion					
Storage: 2-8 degrees Celsius Time Prepared:					
Protect from Light	Preparer:				
	Check:				

Figure 6: in-isolator label

3. In the parts list, it is possible to adjust the preparation time to the actual time the product was made (for example, if it is desirable to have expiries calculate from an actual preparation time, rather than a planned time):



Figure 7: adjust the planned preparation time to an actual preparation time by clicking on the blue time and date

4. When clicking confirm preparation, the Preparer and the Assistant/checker is entered. Again, depending on local workflow, this could be the point where the volume checker's details are entered:

🌞 Volumetric preparation	_ <u>×</u> _
Volumetric preparation	
Comments:	
	<u>_</u>
	~
Preparer:	
Assistant/check:	
Preparation labels	
	✓ OK 🎉 Cancel

Figure 8: entering preparer and assistant details after clicking "confirm preparation"

5. In the documentation screen, as with guided preparation, it is possible to print a report for the preparation which will give the preparer and checker details. Since guided preparation was not used for this method, there will be no "print log" as the actual compounding took place outside NCIS:

Preparation log	25/06	6/2020	11:05	11:05	COL	
	25/00	5/2020	11:06	11:07	COL	
Unable to print log for preparation as there are no preparation steps availab	e. 25/00	5/2020	11:21	11:21	COL	\checkmark
ОК						
	Print report for this preparat	on		Print log	g	
						_

Figure 9: print log only available where guided preparation has been used, as this logs preparation steps in real-time