SELF-GUIDED PRACTICE WORKBOOK [N4] CST Transformational Learning

WORKBOOK TITLE: Pharmacist (Workbook #4)







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# **\$** SELF-GUIDED PRACTICE WORKBOOK

Duration	4 hours
Before getting started	<ul> <li>Sign the attendance roster (this will ensure you get paid to attend the session).</li> <li>Put your cell phones on silent mode.</li> </ul>
Session Expectations	<ul> <li>This is a self-paced learning session.</li> <li>A 15 min break time will be provided. You can take this break at any time during the session.</li> <li>The workbook provides a compilation of different scenarios that are applicable to your work setting.</li> <li>Each scenario will allow you to work through different learning activities at your own pace to ensure you are able to practice and consolidate the skills and competencies required throughout the session.</li> </ul>
Key Learning Review	<ul> <li>At the end of the session, you will be required to complete a Proficiency Assessment.</li> <li>This will involve completion of some specific activities that you have had an opportunity to practice through the scenarios.</li> <li>Your instructor will review and assess these with you.</li> <li>Upon completion of the Proficiency Assessment, both you and your instructor will complete your Competency Assessment Checklist.</li> </ul>



# Using Train Domain

You will be using the train domain to complete activities in this workbook. It has been designed to match the actual Clinical Information System (CIS) as closely as possible.

Please note:

- Scenarios and their activities demonstrate the CIS functionality not the actual workflow
- An attempt has been made to ensure scenarios are as clinically accurate as possible
- Some clinical scenario details have been simplified for training purposes
- Some screenshots may not be identical to what is seen on your screen and should be used for reference purposes only
- Follow all steps to be able to complete activities
- If you have trouble to follow the steps, immediately raise your hand for assistance to use classroom time efficiently
  - Ask for assistance whenever needed



# **PATIENT SCENARIO 1 – ED Tracking Shell**

### **Learning Objectives**

At the end of this Scenario, you will be able to:

- Access the ED Tracking Shell to visit all ED patients
- Filter the ED Tracking Shell for patients requiring Best Possible Medication History (BPMH)
- Completing the BPMH task upon finishing

### **SCENARIO**

You are assigned to work in the ED at your facility and will need to use the ED Tracking shell as a guideline to view the patients and their current status in the ED.

You are interested in viewing a comprehensive list of all patients in the ED who require BPMH.

You will **not** be using the ED application, FirstNet.



# **Activity 1.1** – View All Patients Requiring BPMH

#### Estimated Completion Time - 5 min

1

1. Log in to **PowerChart** with Username and Password



2. Click on Tracking Shell from the toolbar

Depending on the location (hospital) of where you work, the ED tabs will already be set to your location.

P PowerChart Organizer for Test, Med											
Task Edit View Patient Chart Links Notifications Help											
🕴 PPM 👪 Multi-Patient Task List 🛔 Patient List Perioperative Tracking 🎬 Clinical Workling Tracking Shell 1	Discharge Dashboard										
🕴 🇱 Suspend 📲 Exit 🔏 Message Sender 🎬 AdHoc 🎟 Medication Administration 🔒 PM Conversation 🚽	Communicate 👻 🛗 Patient										

3. Tracking Shell screen will appear.

Patie	NE COTLEMAN	SHOLT	-00	- WHER TOTAL IN HVG L	1051567156	FIREN	<reene></reene>							
3 4	*													
	Bed	Alerts	CT,	Name	Age	Allergy	Reason for Visit	LOS	Dispositi EDMD MLP	RN	Events	Lab	Rad OOD	Comment
2	ACWR	2	5	CSTLEARN, SAGEYPOO	32 years	0	1:Chest trauma (2), bl	0.40	)		43#			
	ACWR			CSTPRODREG, ARMBANI	27 years	9		1:05	5		🛨 «3* 🖽			Click to
	ACWR	GΛ		CSTPRODOSSYSTEM, BA	24 years	0		0.59	)		+ =3*			a han ma
	ACWR	Δ		CSTPRODOSSYSTEM, JA	a 16 years	0		0:47			+ =3*			change [
				CSTLABAUTOMATION, TS	81 years	9		2015:00	5 <b>*</b>		+	2		ED Views
				CSTLABAUTOMATION, TS	\$75 years	9		2013:03	3		+			ED FICTIO
				CSTEDHONG, TOMMY	27 years	9		1462:18	3		+			
				CSTPRODREG, NEWEDE	27 years	9		1077:26	5		+			
				CSTSNCPOE, STTESTON	E24 years	9		960.47	1					
				CSTSNTEST, STWORKFL	17 years	9		770:15	5					
	AC.201 / 7EL.		8	CSTDEMOOTTO, DONOTU	67 years	0		10:31	1 🔶 🔶		🐮 🔝 👄	6/0	3	FOR ACMIO DEMO SEP
	AC.204			CSTSNLODGE, STVERON	17 years	9		623:58	5		-3* T +			
	AC,209			CSTPRODSNPITT, STBRA	46 years	9		141:49	9		¥ + =3*			

**NOTE**: For this Tracking Shell screen only, this page updates automatically every 60 seconds. Therefore, you do not have to refresh the page each time. 2



## ED Tracking Shell Icon Meanings by Columns

Other Icons by Column	Screen Tips that appear when you hover over the icon
Alerts Column	Time Event Status 2017-Aug-28 11:34 72 Hour Return Request
CTAs indicators	Acuity: 4 - Less Urgent
EDMD column	Grafstein, Eric - EG
Alerts Column	TimeEventStatus2017-Aug-2513:39Hosp High UtilizerRequest
Alerts Column A	Time         Event         Status           2017-Aug-25 13:44         ADE Risk Positive         Request
Disposition column	Time Event Status 2017-Aug-25 14:11 Admit Request
Disposition column	Time Event 2017-Aug-25 14:11 Inpt Bed Request
Events column	Event Consult Request
Events column	TimeEventStatus2017-Jul-0415:08Consult Psych RequesRequest
Events column	Registration overdue by 30 minutes
Events column	Registration overdue by 15 minutes
Events Column	TimeEventStatus2017-Aug-2514:11Perform BPMHRequest

**NOTE**: This is not a complete list of all icons. Hover over the icon to find what it indicates.



# <sup>3</sup> To find all ED patients requiring BPMH

There is a filter setup for Pharmacists and Pharmacy Technicians to find patients requiring BPMH.

1. Locate the Filter label and choose **Perform BPMH LGH** from the drop down list.

List will truncate to only show patients requiring BPMH

Tracking	Shell																	
ED LGH Ge	eneric View	ED LGH	Look Up ED PEM Generic V	iew ED PE	M Look U	p ED SGH Generic View	ED SGH	H Look Up EE	WHC Generic	View	D WHC Loo	k Up   LG	H Chem	otherap	y Clinic			
Patient:	Pharm-Emerg,	Bessie	• WR:0 Total:14 Avg	LOS: 243:32	Filter:	Perform BPMH LGH	•											
۵ 🗠																		
Bed	A	erts CT	Name	Age	Allergy	Reason for Visit	LOS	Disposition	EDMD MLP	RN	Events	$\sim$	Lab	Rad	OOD	Comme	nt	BA
AC,	201	3	Pharm-Emerg, Audrey	47 years	0	1:Myocardial infarctio	428:29	9 🎓			- 🐮 🖘	- )0	* 🎔					
AC,	202		Pharm-Emerg, Faith	47 years	0	1:Myocardial infarction	428:29	9 🚖			* +	<b>~</b> -	7					
AC,	203		Pharm-Emerg, Rose	47 years	0	1:Myocardial infarction	428:29	9 🎓			* +	C Time	-		Event	Status	Duration (H	IH:MM)
AC,	204		Pharm-Emerg, Charlene	47 years	0	1:Myocardial infarction	428:29	9 🎓			* +	2017.	-Dec-21	14:00	Feriorm BPMH	Request	351:16	

2. Highlight the patient line for which BPMH is to be performed.

### Open your assigned ED patient's chart.

Double-click the Blue Play button I in the first column.

Tracking Shell	Tracking Shell											
ED LGH Generic View ED LGH Look Up ED PEM Generic View ED PEM Look Up ED SGH Generic View ED SGH Look Up ED WHC Generic View ED WHC Look Up LGH Chemotherapy Clinic												
Patient: CSTADTJAMTHREE, ADI +   WR: 9 Total: 11 Avg LOS: 83:50   Filter: Perform BPMHLGH +												
0 📾												
Bed Alerts	CT, Name	Age Allergy Reason	for Visit LOS DispositicEDMD MLP	RN Events I	ab Rad	OOD	Comment	BA				
ACWR / 306,0	CSTADTJAMTHREE, A	DT 58 years 🧔	100:40 👚 🔶	🛉 🐞 🖷 🔅	/0							
ACWR	CSTLABENOUGH, UTT	HA130 years 📿	71:15 👚 🔴	+ -	2							
ACWR	CSTPRODBCSN, INSIL	DE7 67 years 🍳	45:42 👚 🔴	🛉 🖘 🚥								
ACWR	CSTPRODBCSN, TIME	CR 47 years 🍳	46:47 👚 🔴	+ = =								
ACWR	CSTPRODEMPI, TEST	DO 62 years	96:40 👚 🔴	+ •	1/0							
ACWR	CSTPRODEMPI, TEST	PS(18 years 🧐	73:35 👚 🔴	+ -								

The patient's chart will open.
 BPMH can now be performed on your patient. Please refer to Pharmacist Workbook #1 for instructions to complete BPMH.



## **Key Learning Points**

- Access Tracking Shell through PowerChart. **Do not** use FirstNet.
- Icons in Tracking Shell help provide a quick visual of patient status to help with prioritizing your day.
- You can hover your mouse (Hover to discover) over any icon to find out their meaning.
- Apply filter: Perform BPMH to only view patients who need BPMH.
- Capsule icon E indicates that patient needs BPMH.
- Double click blue arrow to open patient chart.
- Establish a relationship to access patient chart.



# Activity 1.2 – Completing BPMH Event

Estimated Completion Time - 15 min

### Completing BPMH task

- 1. Click Tracking Shell.
- 2. Single click on the patient line for Patient A
- 3. Right click on the patient name, select Complete Event
- 4. Select Perform BPMH
- 5. Capsule icon 🟴 drops when BPMH is completed.

ASMN.		3	
ACWR	CSTPRODBCSN, INSIDET 67 years	46:36 👚 🔴	= <b>0* =</b>
ACWR	CSTPRODBCSN, TIMECR 47 years	Request Event >	<b>~?* =</b>
ACWR	CSTPRODEMPI, TESTDO 62 years	Charle Counts Counts	
ACWR	CSTPRODEMPI, TESTPS(18 years	Complete 4 Registration	
ACWR	CSTPRODOSSYSTEM, AF 3 months 📿		
ACWR / AC,2	INSURANCEONE, USEDB' 16 years	46:00 <b>2</b>	🖝 🌹 –
ACWR	LEARNTEST, JASMIN 58 years 🍕	22:50 Admit	<b>~?* =</b>
ACWR	TRANSITIONOFCARE, ON 39 years	173:39 Inpt Bed Request	=• <b>*</b> 🚥
1.0110			

6. The entire patient row will disappear if your filter is still set to Perform BPMH LGH since that patient no longer requires a BPMH event

NOTE: Home medications can be updated at any time in PowerChart, even if status states 'complete'.



## 2 Reversing the Complete Perform BPMH Event

- 1. Single click on the patient line for Patient A
- 2. Right click on the patient name, select Request Event → Perform BPMH
- 3. The pill icon will reappear under the **Events** column for the patient.

			-									
hart Links Notifications P	atient Acti	ons	Inpt Bed Request									
ssage Centre 📲 Pharmacy Car	e Organizei	r 🎬 /	Consult Request	y Oncology Appo	intment List 📲	MyExp	erience 🛔	Patient	List			
n Administration  🔒 PM Conve	rsation 👻 🕻	Co	No Visitors	Discern Reporting P								
rials 🜊 Policies and Guidelines	🕄 UpTol	Date	Inpt Bed Assigned									
			Isolation									
			Disaster									
			Suicide Precautions									
Look Up ED PEM Generic View	V ED PEN	1 Loo	Perform BPMH	GH Look Up ED	WHC Generic Vi	ew E	D WHC Loo	k Up	LGF			
e 🗸   WR: 185 Total: 214 Ave	g LOS: 723:	33   F	MD Seen									
			High Utilizer Acknow									
			Falls Risk									
Name	Age	Aller	Consult to Crisis	Disposition	EDMD MLP	RN	Events					
Pharm-Emerg, Audrey	48 years	۲	L <u>D</u> Consult	26 👚			🌾 🐢	' 🛑 🕴	0*			
Pharm-Emerg, Faith	48 years	۲	MDRO History	26 👚			* +	<b>~?*</b> (				
Pharm-Emerg, Rose	48 years	۲	In Radiology	26 👚			* +	<b>~</b> 0* (	-			
Pharm-Emerg, Charlene	18 100000	<u>n</u>	Rad	26 👚			* +	<b>~</b> )*				
Pharm-Emerg, Jo Reque	est Event	•	ECG	26 👚			* +	<b>ب *ر</b> ې				
Pharm-Emerg, Le. Start E	Event	•		26 畣			- 🐮 🛨	<b>ب *ر</b> ې				
Pharm-Emerg, Ta Comp	olete Event	•	Consult to Case Might	26 👚			٠	<b>~</b> )* (				

## Key Learning Points

Access Tracking Shell through PowerChart

Right click on patient's chart to document completion of BPMH



# **PATIENT SCENARIO 2 – Oncology Clinics**

### Learning Objectives

At the end of this Scenario, you will be able to:

- Manage Oncology medication regimens
- Use the Manual Product Selection screen to choose medication(s)
- Use the Chemotherapy tracking shell to communicate with all members of the clinic
- Use the Clinical Check Intervention Form

### SCENARIO

You are assigned to work in Oncology at your facility. Your patient is a female undergoing treatment for Breast Cancer. The protocol ordered for your patient is **ONC BR BRAVGEMP**.

As a Pharmacist assigned to Oncology, you will need to perform the following tasks.

- 1. Pharmacy Verification specific to Oncology.
- 2. Use Oncology tracking shell to view, update patient's status and their current status in Oncology.



# Activity 2.1 – Completing Chemo Clinical Check

Estimated Completion Time - 10 min

1

The Pharmacy Chemotherapy Clinical Check PowerForm will be filled out prior to the commencement of Chemotherapy Treatment.

- 1. Log in to **PowerChart** with Username and Password.
- 2. From the PPM screen, change view to LGH Chemo.
- 3. Click your patient's name as it is a hyperlink to open their chart.

PPM			C Fullscreen College	<ul> <li>8 minutes ap</li> </ul>
View: LGH Chama .	20 10 0 CSTPROONED, CHLOE MID: 700001740 D00: 29 Sep 1980 Apr: 37 years Sec Female Weight:			
All - 0				Expend All
	Tepatiest Orders			8
1031: 700007038 Qui File: 700000002982 00 104 Owen (154 Owen 104 Owen (154 Owen	100-01 4001              € © ordansetzen i m.; P0, sece encologi, drug fam: tal, find done: Routine, start: 12.0ec:2017 3H:21 197, stap: 19-0ec:2017 3H:29 197             Status: Obered             Repute: Routine            10-0-1400              Repute: Routine, start: 12.0ec:2017 3H:21 197, stap: 19-0ec:2017 3H:29 197	Quese time: 22 hr 12 mm dari minitime: 12-Dec-2017 09-31 PIT		
Queue ter /1s: 70000001454 000 LG4 Chemo / LG4 Chemo	22 br 12 min 22 br 12 min 24 Sep 1980 C docamethiasone 5 mp. PO, once onciong, dog form: bh, fint doce Routine, start: 12 De-2817 09:31 PST, star: 19-De-2817 09:39 PST Strut:: Offend Registering: Routine S	Ourse time: 22 fr 12 min Ratt detertions: 12-Dec-2017 0H31 PST		
CS ITHEOROMIC, CS-CRUITES IUNE - 46 years 10031 7500070296 024 17381 7500000013077 02 LOF Obenio (Lof Obenio	Image: Strate Strate         CESpiration (CESpiration concerning) 30 mights, from an encodings, administrative unit: 40 mights, from dates, Routines, admit: 12 0 mig/31/1           Image: Strate Strate         Strate Strate           012:00:1071         Strate Strate	0.31 P57, slop: 19-Dec 2017 10.29 P57 Queue time: 22 fe 12 mm Dart deta/time: 12-Dec-2017 10:31 P57		
CETCORNODELES, UTVUMNY WONTON - 32 years ACTI: 700000548 Qrid F10- 700000001234 Qrid	Finel: Say		View	Pucen

4. The Encounter Selection screen may appear. Ensure the correct encounter is selected by double clicking on the correct encounter or right-click and choose "change encounter".

P Encounter Selection	1			
Encounter Trac	Location	Admit Date	Bircharge Bale	Encounter #
Outpatient	LGH Chemo IV WR	12-Dec-2017 09:24 PST		700000016454
Outputient	LOH Chemo IV WR	20 Oct 2017 09.36 PDT	20 Oct 2017 23/59 PDT	700000012395
Emergency	LGH ED ACWR	29-Aug-2017 09:38 PDT	01-Sep-2017 14:26 PDT	700000009579
Outpatient	LGH 2E	12-Jan-2017 10:23 PST	12-Jan-2017 23:59 PST	700000002596

### 5. Click the **AdHoc** button from the toolbar.

Task	Edit	View	Patient	Chart	Links	Notifications	Navigation	Help	
PPM	🌇 Clin	nical Wo	orklist 🖃	Message	Centre	🎬 Pharmacy	Care Organizer	🎬 Ambulatory Organi	zer 📲 MyExpe
Ξ. Te	ar Off	<b>∄∏ E⊳</b> t	R AdHo	c IIIIMe	dicatior	n Administratio	n  🔒 PM Conv	versation 👻 📴 Commu	nicate 👻 🕂 Ad
🕴 😭 Pa	atient H	ealth Ed	lucation M	laterials	🕄 Polic	cies and Guideli	ines 🔞 UpToD	)ate _	

6. Select the Pharmacy Chemo Clinical Check PowerForm and click the Chart button.

P Ad Hoc Charting - CS	TPRODMED, CHLOE	
🗁 Clinical Pharmacy 🔁 All Items		
		Chart Close



- 7. The Pharmacy Chemotherapy Clinical Check PowerForm will appear.
  - a) Protocol field: Type the Protocol Name, BRAVGEMP
  - b) Cycle field: Type the Cycle number, 2
  - c) Day field: Type the Day number, 1
  - d) Pharmacist 1, Date, Time fields: pre-populates to user and current date/time
  - e) Pharmacy Clinical Check List: Once complete, add checkmarks to items.
  - ie. Select all except for CAP Approval and Clinical Trialf) Clinical Check Complete: Select No

Note: The second pharmacist, upon completion of chemotherapy clinical check, will update this field to Yes

- g) Lab Check Complete: Select Yes **NOTE:** If unable to complete this h) Click the Sign 🔨 button form it can be saved by clicking the ы Save icon 🗞 👩 🛧 🔸 📾 🖾 🗎 ✓ 日 h This form can be retrieved from ↑ PST \*Performed on: 01-Feb-2018 **2 ∨** 0942 Form Browser menu in the Table of Phamacy Cher Pharmacy Chemotherapy Clinical Contents. а Pharmacy Clinical Check List Protocol Verify two patient identifiers BRAVGEMP CAP Approval Р Clinical Trial Cycle 2 Day 1 С b Confirm protocol/eligibility for treatment 🗹 Review Medical History d Potential Interactions Allergies Timing of Treatment TestMM, Pharmacist-PharmNet2, RPh 🕂 🛃 🗹 BSA 0942 Pharmacist 1: Appropriateness of Chemo Dose Review Lab Values/Required Tests \*\*\_\*\*\*\_\*\*\* Pharmacist 2:  $\hat{\phantom{a}}$   $\checkmark$ **^** 9 Appropriate Method of Delivery Monitor for Chemo Toxicities Protocol Related Supportive Care Yes **Clinical Check Complete** O Yes Lab Check Complete 0 No No O g O Not Applicable O Not Applicable Comments
- Key Learning Points
- Access patient from PPM in Toolbar
- Ensure correct encounter for patient visit
- Access and complete Pharmacy Chemo Clinical Check through the Ad Hoc folder



## Activity 2.2 – Oncology Medication Verification

#### Estimated Completion Time - 30 min

1

- 1. Log in to PowerChart with Username and Password.
- 2. Change PPM View to LGH Chemo.

**NOTE:** This queue will display patients checked in to LGH Chemo with orders for verification including future order for the next 96 hours.

РРМ	
View: LGH Chemo	• 23 Å 🌣
All •	Q
CSTONC, STWQMTHREE - 17 ye	ars 1

3. Find your assigned patient in the PPM list, click **Process**.

Your patient is a female undergoing treatment for breast cancer.

The protocol ordered by the Oncologist is ONC BR BRAVGEMP

Encounter So	earch											NOTE: The Encounter Search window may appear.
Facility	Encounter #	Visit #	Enc Type	Med Service	Unit/Clinic	Room	Bed	Est Arrival Date	Reg Date	Disch Date	Attendin	Ensure the correct encounter
LGH Chemo	7000000004112	7000000004128	Recurring	zzOncology	LGH Chemo	IV Hold	1		07-Apr-2017 12:22	09-Aug-2017 11:13	7	
LGH Lion	700000003598	700000003614	Inpatient	zzInternal Me	dic LGH 2E	218	01		13-Mar-2017 13:21		Plisvca, F	is selected
🖌 🗐 LGH Lion	700000000658	700000000657	Inpatient	zzCardiothora	cii LGH 2E	224	02		29-Sep-2016 9:11	02-Mar-2017 8:48	Mainra, R	13 Selected
												OK Cancel

4. For orders that are "Initiated", the order status is Ordered.

This is the order example for the ONC BR BRAVGEMP protocol

PPM			(c) Full screen	20 minutes as
View: LGH Chenso -	<b>31</b> 1≙ Φ	CSTPRODMED, CHLOE MRN: 700001748 DOB: 29-Sep-1980 Age: 37 years Sec: Female Weight:		
LGH LGH Chemo LGH Med Request Only	Part of a	Impatient Orders		Espand Al
PEM Med Request Only SGH SGH de votes	PowerPlan	Condansetron King, AD, once oncology, drug form: Lab. first dose: Routine, start: 12-Dec-2017 09:31 PST, stop: 19-Dec-2017 09:39 PST     Soland: Dedeed     Soland: Dedeedeed     Soland: Dedeedeedeedeedeedeedeedeedeedeedeedeede		
SGH Med Request Only WHC WHC Med Request Only USH Temporary	4 dess 01 des 1971	Gesamethasone 8 mg. R0, ance ancelogy, drug fam: tab, fort door: Rustine, start: 12-Dec-2017 09:31 PST, stop: 14-Dec-2017 09:39 PST Status: Ordered Status: Chefend Decomposition: 2 min Status: Chefend Status: C		
CSTCORNOODLES, UTYUMMY WONTON - 32 years HRN: 70000548 HRN: 70000548 HRN: 70000548	Medication	ClSplatin (ClSplatin - oncology) 30 mg/m2, P/, once ancidegy, administer over: 49 minute, drug ferm: bag, fint dose: Rudine, start: 12-0e-0121 1031 P97, stor: 19-0e-2     Starts: Cl-Splatin Cl-	017 10:29 PST	
CSTPRODMED, CHLOE - 37 years MRX: 700051348 FBI: 70005033454 LCR Obmm / LCR Obmm	Queun tane: 2 man DCB: 29 Sep 1980		View	Process
PITTHIRTYFOURLEE, JORDAN - 60 years 1987H: 700008556	Queue time: 10 days			



NOTE: For orders that are not initiated, the order status is Future

PPM			D, full screen 🔿	2 0 minutes ago
View: LGH Chemo +	245 12 0	CSTPRODONC, JAYPHARMACY MRN: 700007817 DDB: 10-Oct-1990 Age: 37 years Sez: Male	n Weight: 00 kg	
All - 0				Expand All
		▼ Inpatient Orders		27
CSTPRODONC, JAVPHARMACY - 37 years HRIE 704007817	27 4 Quese lane: 14 days DOB: 16 Oct 1980	<ul> <li>Gescamethasone 8 mg, PO, soce oncology, drug farm tub, first doze: Routine, start: 86-Dec-2017</li> <li>Startur Future R. Future Future</li> </ul>	Quane time: 7 days Start date/time: 05 Opc 2017 15:16 PST	
CSTONC, CHERRY - 25 years MDN: 700004349 70%: 70000000008 LGH Chemp LGH Chemp	Queue time: 13 days DOD: 22-Feb-1991	Go andansetron 8 mg. PO, once oncelogy, drug form: tab, first doser. Routine, start: 65-Gec-2017     Statist: fythere     Regional Fythere     Regiona Fythere     Regional Fythere     Regional Fythere     Regiona F	Queas time: 7 days Start data/time: 05 Oec-2017 15:18 PST	
CSTPRODONC, NURSEREVIEWSTEPH - 32 years MRN: 70000454	Queue time: 12 days	State: Future 1	Queue time: 7 deys Start data/time: 05 Dec-2017 15:16 PST	
CSTPRODONC, KEVINPHARMACY - 37 years MDN: 700008294 770: 700000015071 LGH Chen / LGH Chens	Queue time: 12 days DDD: 01-Jan-1990	Ge beracizumab 40 mg. TV, once ancelege, <u>administra news</u> ) a minute, drug form: bag, fint dose: Routine, stat:     State: Pater     Generacial (fluorouracial - oncology) 200 mg. TV dest.     Date: Pater     Colom: Pater	55-Dec-2017 Quetan time: 7 days Start: 05-Dec-2017 17:26 PST start: 05-Dec-2017, hig winner (w): 55 Quesa time: 7 days	1
CSTONC, LEARNINGVIC - 37 years	<b>672</b>	SC promy Router	Start date/time: 05-Dec-2017 17:16 PST	

5. Click **Process** from the PPM queue.

The **Pharmacy Medication Manager** application will launch with your patient's profile.

- 6. For the purpose of this activity, click the header titled Order Sentence to sort medications alphabetically.
- 7. Click Apply button.

Note: In the training environment, your "Zero Time None" will have a "Discontinued" status. This is just a date placeholder.

Acute Profile	Ambulatory Profile	Results	Interventions	Processing Ord	ers					
Drug:										
	Action	Status				Order Sentence				
▶ [	Verify ·	Future		o 🞦 🗊 🗌		CISplatin - oncology 30 mg/m2 bag IV once once				
▶	Verify	Future		• 🗊		dexamethasone 8 mg/ 2 tab tab PO once onco				
▶	Verify	Future		o 🕒 🗊 👘		ondansetron 8 mg/ 1 tab tab PO once oncology				
▶	Verify	Future				Zero Time None once oncology Day 1, 8				



### 2 Reference

Unverified Action History box

- You may be alerted to confirm an unverified action. This appears if at any time the medication was updated between initial medication ordering and pharmacy medication verification. Note: In the training environment, you will see this for the next 3 orders.
- 2. Review the medication in this box and click the **OK** button.

Splatin - oncology 30 mg/m2 b	ag IV once oncolog	ty Day 1, 8							
Status Order Se	entence		Start		Stop		Order Type		
Ordered CISplati	n - oncology 30 mg	m2 beg IV once	12-Dec	-2017 10:31 PST	19-Dec-2017 1	0.29 PST (p)	PROTOCOL		
Ordered Day	CISplatin - oncold	atin - oncology 30 mg/m2 ba		-2017 10:31 PST	12-Dec-2017 1	0:31 PST (p)	MED		
Ordered Day:	ClSplatin - oncold	ogy 30 mg/m2 ba	19-Dec	-2017 10:29 PST	19-Dec-2017 1	0.29 PST (p)	MED		
Unventied Event	Effective	Date/Time	Event Date/Time			User			
Order	12-Dec-2	2017 09:30 PST	12-Dec-	2017 09:30 PST		TestON, Or	TestON. OncologistHematologist-		
Activate	12-Dec-	2017 09:31 PST	12-Dec-	2017 09:31 PST		TeslON, Or	cologistHematologist-		
							_		
Drug	D	lose			Ordered As				
CISplatin	1	l0 mg/m2			CISplatin - oncolog	a.			
	PICULE: 19				Par dose. PRN reason. Billing formula.				
Dosag	e form: bag				PRN reason.	U			
Dosag Star Stor	e form: bag t dt/tm: 12-Dec-20 o dt/tm: 19-Dec-20	17 10.31 PST 17 10.29 PST			PRN reason. Billing formula. Billing description.	u			
Dosag Star Stor Ster Discourse	e form: bag t difim: 12-Dec-20 o difim: 19-Dec-20 o type: Physician S irration:	17 10.31 PST 17 10.29 PST Mop			PRN reason. Billing formula. Billing description. Price: Cost	u U			
Dosag Star Stor Dispense co Dispense co Dispense co Dispense	e form: bag 1 dVtm: 12-Dec-20 9 dVtm: 19-Dec-20 19 optype: Physician 5 pration: tegory: e from:	17 10.31 PST 17 10.29 PST Stop			PRN reason. Billing formula. Billing description. Price: Cost Research account Source order ID.	N/A			
Dossg Sta Sto Ste Dispense ce Dispense ce Dispense Phy	e form: bag t dt/tm: 12-Dec-20 o dt/tm: 19-Dec-20 o type: Physician 3 aration: tegory: e from: sician: TestON, Or	17 10:31 PST 17 10:29 PST Stop neologistHernatolog	jist Ph	c	PRN reason PRN reason Billing formula. Billing description: Price: Cost Research account Source order ID: ommunication type:	N/A			
Dossg Sta Sto Dispense co Dispense co Phy User defined	e farm: bag t dt/tm: 12-Dec-20 o dt/tm: 19-Dec-20 p type: Physician 5 restor: tegory: e from: nician: TestON, Or Jetails:	17 10.31 PST 17 10.29 PST Stop ncologistHematoloj	jist Ph.	c	PRN reason. Billing formula: Billing description. Price: Cost Research account. Source order ID: ormmunication type: Order priority Contributor system.	N/A Routine PowerChart			
Dosag Sta Sto Sto Dispense co Dispense Dispense Dispense Phy User defined Linke	e form: bag t dt/tm: 12-Dec-20 o dt/tm: 19-Dec-20 p type: Physician 5 restor: tegory: e from: sician: TestON, Or Jetails: fuel details: N/A	17 10.31 PST 17 10.29 PST Stop ncologistHematolog	jist Ph	c	PRN reason. Billing formula: Billing description. Price: Cost Research account. Source order ID: ormmunication type. Order priority Contributor system TPN details:	N/A Routine PowerChart N/A			
Donag Stat Stor Orispense ca Dispense Phy User defined Linkk Total disp Stat disp	e form: bag 1 dt/tm: 12-Dec-20 0 dt/tm: 19-Dec-20 0 dt/tm: 19-Dec-20 19-D	17 10.31 PST 17 10.29 PST Stop	jist Ph	c	PRN reason. Billing description. Price: Cost Research account. Source order ID: ommunication type. Order priority Contributor system. TPN details: Patient's Own Med.	N/A Routine PowerChart N/A No			

The screen will proceed to the medication for verification



## 3 Cisplatin – oncology 30 mg/m<sup>2</sup> bag IV once on Day 1, 8

1. This medication is available in an IV bag.

For the Select Product Type box, select the **intermittent** radio button and click the **OK** button.



2. Manual Product Select Screen

For every Oncology medication requiring verification, the Manual Product Select screen will appear.

- a) Select the IV Sets tab.
- b) Select the appropriate product cisplatin (dose up to 60 mg)/100 mL NS bag
- c) Click the **Select** button.
- d) The desired product will move under the "Selected products" box.
- e) Click the **OK** button.

M Manual Product Select - CISplatin - oncology 30 mg	/m2 hag IV once oncology Day 1,8 hag		
Order Information			
Ingredients:		Last updated by:	Communication type:
CISplatin	47.4 mg	TestON, OncologistHematologist-Physician, MD - Physicia	Electronic
CISplatin - oncology		Order comments:	
		In 500 mL Sodium Chloride 0.9% (NS) over 45 minutes. Dz Target Dose: ClSplatin 30 mg/m2 (Actual Dose 30 mg/m2)	ys 1 and 8 A 13-Dec-2017 10:13:04
		User defined details:	
			Â
Products 1 I Sets (2) Description cisplatin (does our 60 mg)/100 mL NS bag	Formula 2 Formulary Formulary Select > 3	Selected products: Product CISplatin 100 mg/100 mL inj @ 47.4 Move >	Unik Sup 4 mg 0.474 vial
Reset			OK Cancel



3. Click on the View Dosage Calculator icon to view dosing details.

IV	Verify Intermittent Protocol Order Day 1, 8									
	Drug	:						D Update		
[	⊿	CSD	Vol		Drug	Dose	rdered As	Remove		
	⊿		1		CISplatin	47.4 mg / 47.4 mL [ 30 mg/m2 ]	Splatin - oncology			
				60	CISplatin 100 mg/100 mL inj			Modify		
	⊿	1	1		sodium chloride 0.9% (with ov	110 mL		Total volume mL:		
				60	sodium chloride 0.9% 110 ml	. bag		157.4		
								Ingredient volume mL:		
								157.4		

4. Verify that the Final Dose is appropriate for your patient's Height, Weight, and Body surface area. **NOTE**: This is a view-only screen.

			_			
1) Target dose:	30	mg/m2			Order Comments	
2) Calculated dose:	47.4	mg	-		In 500 mL Sodium Chloride 0.9% (NS) over 45 minutes and 8	utes. Days 1 🔺
3) Dose Adjustment:	47.4	mg	100 %			
4) Final dose:	47.4	mg	30	mg/m2		
5) Standard dose:	0	mg	0	mg/m2		
6) Rounding rule:	No rounding					-
7) Adjust Reason:			*			
8) Route:	IV					
Reference Data						
Date of birth:	01/10/1971		(46 Years)			
Sex:	Female					
Sex: Ethnicity:	Female					
Sex: Ethnicity: Height:	Female	cm		Source:	29-Dec-2017 17:03 150.00 cm Height/Length Measured	
Sex: Ethnicity: Height: Actual weight:	Female 150 60	cm		Source: Source:	29-Dec-2017 17:03 150.00 cm Height/Length Measured 29-Dec-2017 17:03 60.000 kg Weight Dosing	
Sex: Ethnicity: Height: Actual weight: Adjusted weight:	Female 150 60 60	cm kg kg		Source: Source: Adjustment:	29-Dec-2017 17:03 150.00 cm Height/Length Measured 29-Dec-2017 17:03 60.000 kg Weight Dosing Actual (no adjustment)	
Sex: Ethnicity: Height: Actual weight: Adjusted weight: Serum creatinine:	Female 150 60 60	cm kg kg mg/dL		Source: Source: Adjustment: Source:	29-Dec-2017 17:03 150.00 cm Height/Length Measured 29-Dec-2017 17:03 60.000 kg Weight Dosing Actual (no adjustment) Manually entered	
Sex: Ethnicity: Height: Actual weight: Adjusted weight: Serum creatinine: CrCI (est.):	Female 150 60 60 0	cm kg kg mg/dL		Source: Source: Adjustment: Source: Algorithm:	29-Dec-2017 17:03 150.00 cm Height/Length Measured 29-Dec-2017 17:03 60.000 kg Weight Dosing Actual (no adjustment) Manually entered Cockroft-Gault (Actual Weight)	Missing data
Sex: Ethnicity: Height: Actual weight: Adjusted weight: Serum creatinine: CrCl (est.):	Female 150 60 60 0	cm kg kg mg/dL		Source: Source: Adjustment: Source: Algorithm: Weight Used for CrCl:	29-Dec-2017 17:03 150.00 cm Height/Length Measured 29-Dec-2017 17:03 60.000 kg Weight Dosing Actual (no adjustment) Manually entered Cockroft-Gault (Actual Weight)	Missing data



5. If the dose requires adjustment, click Close on the Viewing Dosage Calculator Screen.a) Click Modify in the Verifying Intermittent Protocol Order Day 1,8 Screen

M	/erify In	termi	ttent P	rotocol Order Day 1, 8				×
Dr	ug:							
							P	<u>U</u> pdate
	CSD	Vol		Drug	Dose	Ordered As		Remove
4	1	1		CISplatin	47.4 mg / 47.4 mL [ 30 mg/m2 ]	CISplatin - oncology		
			60	CISplatin 100 mg/100 mL inj				<u>M</u> odify
4	<b>V</b>	1		sodium chloride 0.9% (with ov	110 mL		Total	volume mL:
			60	sodium chloride 0.9% 110 m	L bag		157.4	ł
							Ingred	lient volume mL:
							157.4	4

#### b) Click the Dose Calculator icon

M	Verify Intermittent Protocol Order Day 1, 8									
	Drug: CISplatin				Dose: 30 mg/m2	Ordered as: CISplatin - oncology	D Update			
	1 CSE 1	D Vol		Drug CISplatin	Dose 47.4 mg / 47.4 mL [ 30 mg/m2 ]	Ordered As Dose Calculator in - oncology	Remo <u>v</u> e			
			60	CISplatin 100 mg/100 mL inj		Modify				
4	1 🔽	V		sodium chloride 0.9% (with ov	110 mL		Total volume mL:			
			60	sodium chloride 0.9% 110 m	L bag		157.4			
							Ingredient volume mL: 157.4			

c) Round the Final dose to **47.0 mg** and select reason from Adjust Reason drop-down list. In this scenario, choose **Dose rounded** and click **Apply Dose**.

"IColatin								
aspiatin								
Dose Values 1) Target dose:	30	mg/m	2 •		Dose Forms	Order Comments		
2) Calculated dose:	47.4	mg						
3) Dove Adjustment	47.4	ma	100 10 2					
4) Final dose:	47.0	mg	29.7468	mg/m2				
5) Standard dose:		mg	-	mg/m2				
6) Rounding rule:	Manually Entere	d						
7) Adjust Reason:								
8) Route:	(None)							
	Arenia							
Date of birth: Sex Ethnicity: Height	Diarthea Disseminated Int Dose rounded Encephalopathy Fatigue Graft Versus Hor	travascula st Disease	r Coagulation	i t	13 Dec-2017 10.12 150	100 cm Height/Length Meas	ured •	
Actual weight	Hematologic Cor Hepatotoxicity	nsideration	NB .		13-Dec-2017 10.12 60	000 kg Weight Dosing		
	Maximum recome Muccailla /Stores	mended di Mis	ose exceeded	Yent:	Actual (no adjustment)		-	
Adjusted weight:	Nausea/Vomitin				Manually entered		-	
Adjusted weight. Serum creatinine:	Nausea/Vomitin Nephrotoxicity	<i>w</i>						
Adjusted weight Serum creatinine: CrCl (est.):	Nausea/Vomitin Nephrotoxicity Neutropenia			en.	Cockroft-Gault (Actual W	eight)		Missing data
Adjusted weight Serum creatinine CrCl (est.)	Nausea/Vomitin Nephrotoxicity Neutropenia Ototoxicity Patient with amp	utation		en: Used for GrDt	Cockrolt-Gault (Actual W	eight)	•	Missing data
Adjusted weight: Serum creatinine: CrCl (est.): Body surface area:	Nausea/Vominy Nephrotoxicity Neutropenia Ototoxicity Patient with amp Performance Sta	v Nation Rus		erx Used for CrCt erx	Cockroft-Gault (Actual W	eight)	•	Missing data

### d) Click **Update** and click **Okay**.

M	Verif	iy Int	ermit	tent P	rotocol Order Day 1, 8				×
D	ru <u>q</u> :					Dose:	 Ordered as:		
C	Spla	atin				30 mg/m2	CISplatin - oncology	· P	<u>U</u> pdate
	⊿C	SD	Vol		Drug	Dose	Ordered As	] 🔒	Remove
	⊿		V		CISplatin	47 mg / 47 mL [ 30 mg/m2 ]	CISplatin - oncology		
				60	CISplatin 100 mg/100 mL inj				Modify
	⊿ [	1	1		sodium chloride 0.9% (with ov	110 mL		Total	volume mL:
				60	sodium chloride 0.9% 110 m	L bag		157	
								Ingre	dient volume mL:
								157	



- 6. Verify Intermittent Protocol order Day 1, 8
  - a) Dose: self-adjusted 47 mg
  - b) Total volume: pre-populates
  - c) Route: IV pre-populates
  - d) Rate: pre-populates
  - e) Infuse over: pre-populates
  - f) Physician: pre-populates
  - g) Order comments: In 500 mL Sodium Chloride 0.9% (NS) over 45 minutes. Days 1 and 8
  - h) Target Dose: CISplatin 30 mg/m2 (Actual Dose 30 mg/m2) DD-MMM-YYYY TT:MM:SS High Alert Medication pre-populates
  - i) Dispense category: Hazardous INJ intermittent pre-populates

#### Confirm the fields in this window

🖊 Verify Intermitt	tent Protocol Order Day	/ 1, 8						
Drug:								
l								P Update
△ CSD Vol	Drug		Dose				Ordered As	Remove
⊿ 🔽	CISplatin		47 mg / 47 m	nL [ 30 mg/m	12]		CISplatin - oncolo	gy
	60 CISplatin 1	00 mg/100 mL inj						Modity
	sodium chlorid	e 0.9% (with ov	110 mL					Total volume mL:
	60 sodium chl	oride 0.9% 110 m	L bag					107
								157
* Route:	Frequency:		[	PRN dos	es: PR	N reason:		* Physician:
IV .	<ul> <li>once oncology</li> </ul>	- 66	Custom		(N	lone)	×	TestON, Oncologist Hematologist-F
*Rate:		Infus	se over:					
209.33 mL	_/h	▼ 45	minute	•				
Treatment period	d duration:	Start date			Sto	op date:	Time: PST	Stop type:
(Ne	one)	- Original 2	018-Jan-07 09:0	0 PST 🚽	14	I-Jan-2018	(€ ▼ 09:00	Physician Stop
Previous schedu	uled administration:	Next adn	ninistration:	Skin	E Fol	llowing:	Ski	p Remaining doses:
**_***_****		7	* <u>*</u> v		**	***_****		
	· · · · ·							
Order comments	S:			00	Product not	tes:		
Alert Medication Target Dose: Cl 30 14:57:57	n Splatin 30 mg/m2 (Act	ual Dose 29.7468	mg/m2) 2018-	Jan-				
Dosage form:		*Communica	tion type:		Order pr	iorite	Sequence:	Denduct
(None)	•	Electronic	aon gpo.	•	Routine	v	(None) -	Fillauct
* Dispense cated	jory:	* Dispense fro	om location:		Initial do	ses:	Initial quantity:	Printing
Hazardous INJ i	intermittent 👻	60 LGH MAIN P	HARMACY	- 6	s^) 0	66		Comments
* Billing formula:		Start dispens	e date: Tin	ne:				Order Type
Standard	•	66' **_***	* <b>*</b>	*				
Price:	Cost:							Alert History
\$7.92	\$1,007.92							Rx Intervention
								Lot Info
Patient's own	n med						Reject	OK Cancel
Auto calculat	te mitial dose							

7. Click the **OK** button.

Screen will continue to the next medication for verification.



## 2 Dexamethasone Order

- 1. Confirm the fields in this window
  - a) Dose: 8 mg/2 tab
  - b) Route: PO
  - c) Physician: pre-populates
  - d) Order comments: Between 30 and 60 minutes prior to treatment. Days 1 and 8
  - e) Product notes: Take with food
  - f) Dosage form: tab
  - g) Dispense category: pre-populates

Drug:						_
4	、		2			
	)rug		Dose 8 ma / 2 mb		Ordered As	Remove
	deverent has a set of the		o mg / 2 tab		uexametriasone	Modify
Route:	Frequency:		PRN de	ses: PRN reaso	on:	* Physician:
PO	<ul> <li>once oncology</li> </ul>	- 60	Custom	(None)	-	TestON, OncologistHematologist-f
reatment p	eriod duration:	Start dat	e:	Stop date:	Time: PS1	Stop type:
	(None)	- Original	12-Dec-2017 09:31 PST	19-Dec-2	017 🗘 🗸 09:29	Physician Stop
revious scl	neduled administration:	Next ad	ministration: 🗌 Sk	P Following:	Sk	ip Remaining doses:
*_***_****				**_***	<u></u>	
rder comn	ients:			Product notes:		
6		• 0	*	Ordenssissi	0	
osage form	n: -	* Communic	ation type:	Order priority:	Sequence:	Product
osage form ab	n: •	* Communic Electronic	ation type:	Order priority: Routine	Sequence:     MED/IV WOI	Product Printing
osage form ib Dispense o UD	n: • ategory:	* Communic Electronic * Dispense fi	ation type:	Order priority: Routine Initial doses:	Sequence: MED/IV WOI Initial quantity: 0	Product Printing Comments
osage form Ib Dispense o UD Billing form	n: ategory: vula:	* Communic Electronic * Dispense fr for Rx LGH CH Start dispen	ation type: rom location: EMOTHERAPY CLINI  se date: Time:	Order priority: Routine Initial doses: 0	Sequence: MED/IV WOI Initial quantity: 0	Product Printing Comments
osage form b Dispense o UD Silling form tandard	n: ategory: vula:	* Communic Electronic * Dispense fr & LGH CH Start dispen	ation type: rom location: EMOTHERAPY CLINI se date: Se date: Time:	Order priority: Routine Initial doses:	Sequence: MED/IV WOI Initial quantity: 0	Product Printing Comments Order Type
osage form ab Dispense o UD Billing form Standard Price:	n: ategory: vula: Cost	* Communic Electronic * Dispense fr & LGH CH Start dispen	ation type: rom location: EMOTHERAPY CLINI V se date: Time: V V V V V V V	Order priority: Routine Initial doses: 0	Sequence: MED/IV WOI Initial quantity: 0	Product Printing Comments Order Type Alert History.
osage form ab Dispense o UD Billing form tandard Trice: 0.00	n: ategory: vula: Cost \$0.00	* Communic Electronic * Dispense fi & Communication Rx LGH CH Start dispen	ation type: Tom location: EMOTHERAPY CLINI V ise date: Time: V V V V V V V V V V V	Order priority: Routine Initial doses:	Sequence: MED/IV WOI Initial quantity: 60	Product Printing Comments Order Type Alert History Fx Interventio
osage form ab Dispense o UD Billing form Xtandard Yrice: :0.00	n: ategory: uula: Cost \$0.00	* Communic Electronic * Dispense f & LGH CH Start dispen	ation type: Tom location: EMOTHERAPY CLINI  ( se date: Time: Time: Time:	Order priority: Routine Initial doses: ☆ 0	Sequence: MED/IV WOI Initial quantity: 60	Product Printing Comments Order Type Alert History Rx Interventio Lot Info

2. Click the **OK** button.

Screen will continue to the next medication for verification.



## <sup>3</sup> Ondansetron Order

- 1. Confirm the fields in this window
  - a) Dose: 8 mg/1 tab
  - b) Route: PO
  - c) Physician: pre-populates
  - d) Order comments: Between 30 and 60 minutes prior to treatment. Days 1 and 8
  - e) Dosage form: tab
  - f) Dispense category: pre-populates

M Verify Med Protocol Order Day 1, 8			<b>—</b>
Drug:			
			P Update
⊿ Drug	Dose	Ordered As	Remove
△ ondansetron	8 mg / 1 tab	ondansetron	
600 ondansetron 8 mg tab			Modify
* Device Encourse		* Dhumini	
PO	Custom (None)	TestON	an: OncologistHematologist-F
Transforment partial duration:		Time: DOT	Zhan hunai
(None)	2. Stop date.		Physician Stop
Previous scheduled administration: Next adm	inistration:		Permeining descer
Previous scheduled administration:		Зкір н	Remaining doses:
		V V V	
Order comments:	Product notes:		
Between 30 and 60 minutes prior to treatment. Days 1 a	and 8 🔺		*
	<b>v</b>		*
Dosage form: * Communica	ation type: Order priority:	Sequence:	Product
tab   Electronic	<ul> <li>Routine</li> </ul>	✓ MED/IV WOI ▼	Printing
* Dispense category: * Dispense fr	om location: Initial doses:	Initial quantity:	Commonto
AUD • @ LGH MAIN F	HARMACY • 660' 1	6'0' 1	Comments
* Billing formula: Start dispen	se date: Time:		Order Type
	<b>v</b>		Alert History
Price: Cost.			Rx Intervention
30.12 30.12			
			Lot IIIO
Patient's own med		Reject	K Cancel
Auto calculate initial dose			

2. Click the **OK** button.



3. All medications have now been verified. Click the **Submit** button.

П			<b>C1</b>								
	AC	ute Pro	ofile	Ambulatory Profile	e Results	Interventions	Pr	ocess	ing	Order	3
	Dr	ug:									
											Add
					Ψ	~					A
			A	ction	Status						Order Sentence
				-	Active	<< 8	•	D,			CISplatin + sodium chloride 0.9% (with overfill) IV once oncology 209.87 mL/h Day 1, 8
8			•	-	Active	<< 🚦	• I	D			dexamethasone 8 mg / 2 tab tab PO once oncology Day 1, 8
		-	_		Active			<u>6</u>	-		ondansction 8 mg / 1 tab tab P8 once oncology Bay 1, 8
		•	•	•	Active		•		Τ		Zero Time None once oncology Day 1, 8
											Submit Cancel Apply

4. Labels for medications prepared by pharmacy will print. **NOTE:** Labels will not print from the training environment.



### 4 Reference

- 1. Please note the auto-verified order for **Zero Time None once oncology Day 1, 8** acts as an anchor for the start date and time of the oncology order.
- 2. Sample Labels

**NOTE:** Barcode present on IV Label for nursing to perform Barcode Medication Administration (BCMA)



3. For a Multiple Day Regimen Protocol, click the roll-up arrow icons to expand to view orders.

	1							
Acute Profile	Ambulatory Profile	Results	Interventions	Proce	essing	g Ord	ers	
Drug:								
A	ction	Status						Order Sentence
Δ	•	Active	<<	5	D.			CISplatin + sodium chloride 0.9% (with overfill) IV once oncolog
								- CISplatin 56.7 mg / 56.7 mL [ 30 mg/m2 ]
							-	- sodium chioride 0.3% (with overilii) 110 mL
	-	Future	<<				i i	Day 1 CISplatin + sodium chloride 0.9% (with overfill) IV once
	•	Active	<<				Š.	Day 8 CISplatin + sodium chloride 0.9% (with overfill) IV once
•	-	Active		<b>&gt;</b>			-	Zero Time None once oncology Day 1, 8
•	•	Active	<<	<b>5</b>	D.			prochlorperazine 10 mg / 1 tab tab PO once oncology Day 1, 8
	•	Active	<<	<b>1</b>	Þ			dexamethasone 8 mg / 2 tab tab PO once oncology Day 1, 8
Δ	•	Active	<<	<b>5</b>	D			ondansetron 8 mg / 1 tab tab PO once oncology Day 1, 8
	-	Future	<<				š.	Day 1 ondansetron 8 mg / 1 tab tab PO once oncology
	•	Active	<<				š.	Day 8 ondansetron 8 mg / 1 tab tab PO once oncology
▶	<b>•</b>	Active	<<	<b>:</b>	D			gemcitabine + sodium chloride 0.9% (with overfill) IV once onco

**NOTE:** For medication orders with multiple Days of Treatment, clicking the roll-up arrow will display the child orders with their assigned days of treatment. Verification of the order is performed once for the parent order to verify all days of treatment.



### 4. Managing Discern Alerts

Example: Missing Serum Creatinine and Creatinine Clearance.

This alert may appear for certain oncology regimens. Not all patients will have their lab work available in Cerner. Pharmacists will need to refer to supporting paper documentation or look up results via CareConnect.

a) Within Discern Alert, click radio dot for Override Alert

Diamon (Lafd)
DISCERN ALERT
needs to be evaluated:
No serum creatinine or actual creatinine clearance exists on this patient.
Alert Action
Cancel gentamicin
Override Alert
OK

b) Select appropriate Override Reason and type *note* in **Additional Freetext Override Reason:** 

Override Reason Form	
Prescriber Clinical Judgment Patient already tolerating Administration allered to minimize harm Therapeutically indicated Non-immunologic reaction or toxicity Provider/Clinician aware and monitoring	
<type here="" other="" reason=""></type>	
Pharmacokinetic monitoring in place Previously received this drug family	
Additional Freetext Override Reason:	
Result Creatinine = 100 (Life Labs)	~
	~
•	Þ
Cancel	ОК



## **Key Learning Points**

- For Medication Verification, set the PPM view to the correct location and choose correct patient encounter
- Verify orders in Pharmacy Medication Manager. Ensure Order Action is selected "verify".
- After completion of medication verification, click submit to print labels
- For medication orders with multiple days of treatment, verification of the order is performed once for the parent order to verify all days of treatment.
- Discern Alert may appear for certain oncology regimens.
  - Not all patients will have their lab work available in Cerner. Pharmacists will need to refer to supporting paper documentation or look up results via CareConnect



# Activity 2.3 – Oncology Tracking Shell

#### Estimated Completion Time - 15 min

1

- 1. Log in to PowerChart with Username and Password
- 2. Click on Tracking Shell from the toolbar

P	verChart Organizer for Test, Med		
Ta	Edit View Patient Chart Links Notifications Help		
÷ PI	👪 Multi-Patient Task List  🛔 Patient List Perioperative Tracking 🎬 Clinical Working 1	Tracking Shell 🕴	Discharge Dashboard
:#	uspend 🚽 Exit 🔏 Message Sender 🎬 AdHoc 🎟 Medication Administration 🔒 PM 🖯	Conversation 👻 🕻	📲 Communicate 👻 🛅 Patient E

3. Click on your facility's Oncology tab. A listing of patients will appear.

You will use this tool to help with communicating to the Oncology team regarding the preparation of medications.

Trac	king Shell										[□] Full screen	int Print	2 0 mir
ED L	GH Generic View	ED LGH Look Up	ED PEM Generic View ED PEM Look U	Jp ED SGH Ge	eneric View	ED SGH	Look Up ED WH	C Gene	ric View ED WH	C Look Up	LGH Chemotherapy Clini	:	
Pat	ient: CSTPRODO	ONC, RECURR 👻   Filt	er: <none> 👻</none>							<u> </u>			
2	🔿 I 👟 😿 I 🖉	é 🐓											
	Location	* Modality	Name	Date of Birth	Isolation	Allergies	Arrival Mode	RN	To Note	To Do	Comments	Lab	LOS
	Chair 01		CSTPRODONC, RECURRINGON	31-Aug-1985		0							48:21:
	Chair 01		CSTPRODREG, RECURRINGFO	10-May-1990		ai .							21:4:2
	Chair 02		CSTPRODONC, WORKINGGROU	18-Aug-1977		Q		1	2				79:1:0
	Chair 03	Chemotherapy	CSTPRODONC, STEPHANIE	10-Jan-2005		o	Air Ambulance (	)	R T S	۲	waiting on lab results	5/0	287:0:
	Chair 04		CSTONC, TUESDAY	27-Aug-1988		0						4/0	27:23
	Chair 05	Chemotherapy	CSTPRODONC, WORKINGGROU	09-Aug-1973		ο,			<b>B28</b>				78:18:
	Chair 06	Dual Modality	CSTPRODREG, RECURTESTING	10-May-1990		9		RNAr	n 🗟				111:23
	Chair 07		CSTONC, STWQMTHREE	12-Apr-2000		1			88	٠			23:2:3
	Chair 08				1	1							
	Chair 09		CSTPRODREG, TESTRECURAG	10-May-1990		ei.							111:22
	Chair 10		CSTPRODREG, RECURTHREE	10-May-1990	1	<b>ai</b>			*				111:23
	Chair 11		CSTCLINTRIALS, STORANGE	22-Aug-1985		Q				4		4/0	58:0:2

**Indicator Icons related to Pharmacy** 



king Shell									
GH Generic View	ED LGH Look Up	ED PEM Generic View ED PEM Look	Up ED SGH G	eneric View ED SGH L	ook Up ED WHC	Generic View	O WHC Lo	ok Up LG	H Chemotherapy Clinic
ent: CSTPROD	DNC, OSCART 🝷   Filt	er: <none></none>							
🙆 i 👟 😿 i 🕲	é 🐓							Med	ds Ready
Location	Modality	Name	Date of Birth	Isolation	Allergies	Arrival Mode	RN	To Note	To Do Comr
Exam 02		CSTONCONE, ONE	24-Oct-1975		Q			68	
IV WR		CSTPRODHIM, STESTSEVEN	01-Jan-2000		ai			-	Meds to
IV WR	Chemotherapy	CSTPRODMED, CHLOE	29-Sep-1980		۵				reviewe
IV WR	Chemotherapy	CSTPRODMED, PHARM-ONE	29-Sep-1938		۵	Ready for		2	nursir
IV WR		CSTPRODMI, LGH-CHEMO	18-Feb-1967		ai	Treatment			
IV WR		CSTPRODONC. JOEPHARM	01-Dec-1981		0				



- 4. In the Tracking Shell, find your assigned patient with the icon Ready for Treatment and under the **To Note** column.
- 5. This icon is added to the Tracking Shell by the nursing staff.

After you have prepared the medication for the patient, you will add the Meds Ready icon under the **To Note** column **3**.

- 6. On the same line of your patient name, right-click in the To Note column.
- 7. The Events screen will appear.
- 8. Add a checkmark for Meds Ready.
- 9. Click the **OK** button

When this icon is added, this alerts the team to have someone collect the medications for administration.

Events < CSTPRODMED, PH	IARM-ONE >						<b>-X</b>
CSTPRODMED, PHADOB:29-SepMRN:70000 Code Status: Pro					Location:LGH Chemo; I		iH Chemo; I
Age:79 years Enc:7000000			Disease:		Enc Type:Re	curring	
Allergies: penicillin, sh	e Gender:Fem	PHN:987671.	Dosing Wt:80	kg Isolation:		Attending:	
Current Modify Blood Product Order Clinical Trial/Study Interpreter Required Haviation Meds Ready Outpt RX Reminder Porter Called Procedural Sedation	Provider Exam I Treatment in Pr Treatment on H Volunteer Need	Needed ogres old ed				ALL EVENT TYPES ADT Billing Communication Depart Action Documentation Events GBS General	Lab Nursing Orders Physician Registration Tech To Do Visitor Informa Xray
Request Start	Complete	Туре	Status	Automated	Order	Status	•
13-Dec-2017 15:36:18 13-Dec-2017 13:40:38	Meas Ready Readu for Treatmen	IODO ToDo	Request	TestUN, Pharmacist-Pharm TestON, Pharmacist-Pharm			
				<u>.</u>			
					0	K Apply	Close



# Activity 2.4 – Documenting Lifetime Cumulative Dosing

Duration: Estimated Completion Time - 5 min

Specific drugs are pre-set in the system to capture Lifetime Cumulative Dosing

1. Click the Lifetime Cumulative Dosing Icon 弛 in the Pharmacy Medication Manager Menu



- 2. Select Doxorubicin to be documented and fill out the remaining mandatory fields
  - a) Dose: 75 mg

1

- b) Height: 150 cm
- c) Weight: 60 kg
- d) In the Date field, press "T" as a short-cut to fill in today's date
- e) In the Physician field, search for **TestON**, **Oncologist** Use Oncologist MSP #99692

	*D	*Dear Helter	*11-1-ba	+11-1-14 11-14.	*147-1-6-1	MM-table 1 latter
rug: OXOrubicin	- Dose: → 75	Dose Units: mg ▼	Theight:	Cm ▼	60	kg 👻
ate: *Physician:	Comments:					
Nan-2018 🚔 💌 [TestON, Oncol	logist					
utside Administrations	nn Cammanta					
ntaj Dose Heigrit weigrit Date Prijsicia otal:	an comments					
						+
Iministrations						
rug Administered Dose Administered Da	ate & Time Ordered Dose 9	Cheduled Date & Time Order I	f Result Status			
otal:						
						4
						4

- 3. Click Add.
- 4. Click Close.



# **PATIENT SCENARIO 3 – Residential Facilities**

### Learning Objectives

At the end of this Scenario, you will be able to:

- Manage medication profiles for residential patients
- Verify medication order pre-entered by pharmacy technicians
- Perform order entry from faxed Orders form.

### SCENARIO

You are the pharmacist assigned to perform verification of medications for a residential facility. As Computerized Provider Order Entry will not be performed at residential sites, you will be using Pharmacy Medication Manager directly to verify all medication orders.

There are **no** Pharmacy Patient Monitor (PPM) queues set up for residential sites.



# Activity 3.1 – Verifying Orders entered by Pharmacy Technician

### Estimated Completion Time - 20 min

In this scenario, pharmacy technicians will be tasked to enter medication orders for residential patients in Pharmacy Medication Manager to expedite the verification process for pharmacists.

The pharmacy technician has entered medication orders for your assigned patient to be verified in the following activity.

According the faxed copy of the orders, the physician has written the following:

• Today at 07:20

Medication Name						
1.	ASA 81 mg, 1 tab daily					
2.	Docusate 100 mg, 1 cap, BID					
3.	Metformin 250 mg, 1 tab, BID					

• Today at 08:00 (Updated by physician)

Medication Name						
1.	D/C Metformin					
2.	Change to glyburide 5 mg, 1					
	tab, BID					

- 1
- 1. Login to **Pharmacy Med Manager** with your Username and Password
- 2. Search for your patient using their MRN

Enter a patient MRN:	
▼ 70000606	
Person Name	
FIN	
MRN	
Holiotion	

**NOTE:** Recommended method to search for patients is by MRN. Change the dropdown to MRN to search by MRN.

Refer to the orders above for the appropriate action commands for the medication orders. **NOTE**: The Mortar and Pestle icon denotes pharmacist verification is needed.



## 2 Pharmacy Medication Manager Action Orders

#### 1. ASA Order

In the Action field for ASA 81mg choose **Verify** from the drop-down menu.

#### 2. Docusate Order

This order has been entered incorrectly by the Pharmacy Technicians. The dose is 100mg and not 200mg. In the Action field for docusate 200 mg, 1 cap PO BID and choose **Void** from the drop-down menu.

#### 3. Metformin Order

The Pharmacy Technician entering this order did not see the note below to discontinue this order and change to Glyburide 5 mg 1 tab BID. In the Action field for Metformin 250 mg, choose **Void** from the drop-down menu.

4. When done with selecting all actions, click the **Apply**.

Acute F	Profile	Ambulatory Profile	Results	Interventions	Proces	sing	Orders		
Drug:									
	_							Add	
	А	ction	tatus	*			Order Sentence		-
	V	erify 💌	Active				ASA 81 mg / 1 tab tab-EC PO qdaily		
	V	oid 💌	Active	6			docusate 200 mg / 1 cap cap PO BID		Ξ
		oid 🔹	Active	e/			metFORMIN 250 mg / 1 tab tab PO BID		
L V	🛛 NC	DTE: Do not u	se the	Modify					
	Ac Ac Ve co	tion Commar tion is only us rified Order's mments.	nd. Mo sed to s rate o	dify Order modify a r order	r		Submit Cancel	Apply	



## 3 ASA EC 81 mg

- 1. In the Verify Med Order screen. Confirm all mandatory fields
  - a. Route: PO
  - b. Frequency: qdaily
  - c. Physician: pre-populates
  - d. Communication type: Paper/Fax
  - e. Dispense category: pre-populates
  - f. Dispense from location: pre-populates
- 2. When complete, click the **OK** button.

M Verify Med Order			×
Drug:			
		P	Update
△ Drug	Dose	Ordered As	Remove
⊿ ASA	81 mg / 1 tab	ASA	NA - 116 -
66 ASA EC 81 mg tab			woolity
* Pouto: * Eroquionar	PPN deaper PPN received	*Phoioion	
PO v adaily v find	Custom (None)	Plisvcb, Stuart, MD	
Duration:	late: Stop date	v Time: *Stop type:	
(None) T	ale. Stop date	s. nime. Stop type.	•
Description and school	deviate transmission PDT		daraa.
			doses:
25-Oct-2017 V 16:04 V 26-Oct	-2017 V8:00 V 27-Oct-2	017 👻 08:00 👻	
Order comments:	Product notes:		60
	<u> </u>	-	*
Dosage form: *Communi	cation type: Order priority:	Sequence:	
* Disponse estagons	from location:		Product
Dispense editegoly. Dispense	PHARMACY - Ad 0		Product Printing
AUD 🔻 🚳 LGH MAIN			Product Printing Comments
AUD	nse date: Time:		Product Printing Comments
AUD	nse date: Time:		Product Printing Comments Order Type
AUD • & & LGH MAIN * Billing formula: Start dispe Standard • & & &	nse date: Time:		Product Printing Comments Order Type Alert History
AUD         - ∅d' LGH MAIN           *Biling formula:         Start dispose           Standard         - ∅d'           Price:         Cost           \$0.02         \$0.02	nse date: Time:		Product Printing Comments Order Type Alert History Rx Intervention
AUD	nse date: Time:		Product Printing Comments Order Type Alert History Rx Intervention Lot Info
AUD	ase date: Time:		Product Printing Comments Order Type Alert History Rx Intervention Lot Info
AUD	ase date: Time:		Product Printing Comments Order Type Alert History Rx Intervention Lot Info
AUD - Main Billing formula: Start dispe Standard - Main Price: Cost \$0.02 \$0.02	ase date: Time:		Product Printing Comments Order Type Alert History Rx Intervention Lot Info

Screen will continue to the next medication



## 4 Docusate 200 mg Order

Fill out mandatory fields.

- 1. Void screen will appear.
- 2. For the Reason for void: field, choose Wrong Order Details from the drop-down menu.

M Void	×
Order sentence: docusate 200 mg / 1 cap cap PO BID	
Void date/time: PDT 25-Oct-2017 + 1655 +	
Physician placed or counter-signed order	
* Physician:	
Plisvcb, Stuart, MD	<u>_</u>
Reason for void:	
Wrong Order Details Wrong Medication	
Incomplete Order Pharmacist Judgement Duplicate Order Wrong Patient pnatio_sieutsm_tt	
Administrations given	
OK Cancel	

- 3. In the Communication field, choose Paper/Fax.
- 4. Click the OK button

Screen will continue to the next medication



## 5 Metformin 500 mg Order

Fill out mandatory fields.

- 1. Void screen will appear.
- 2. For the Reason for void: field, choose Wrong Order Details from the drop-down menu.

M Void	3
Order sentence: metFORMIN 500 mg / 1 tab tab PO BID	
Void date/time: PDT 25-Oct-2017	
Physician placed or counter-signed order	
* Physician:	
Plisvcb, Stuart, MD	
Reason for void:	
Wrong Order Details Wrong Medication	
Incomplete Order Pharmacist Judgement Duplicate Order Wrong Patient pnaiol_osu_istri_ti ↓ I	
OK Cancel	]

- 3. In the Communication field, choose Paper/Fax.
- 4. Click the OK button

Screen will return to the Acute Profile tab.



### 6 Correct Docusate Order

Enter Correct Order Docusate 100 mg, 1 cap PO BID

1. In the Drug field, type **Docusate 100** and click **Add** 



2. In the Product Search screen, select line time with docusate **100 mg tab / 1 cap cap** in the Description column and click **OK**.

M Product Search			
Main Settings			
Identifiers			
🗹 Generic name 🛛 🕅 Brand name	Mnemonic 🛛 🗹 Descript	tion 🗹 Charge number 📝	DIN Other:
Product Type	Orde	er Type	
Product V Set Order Set	Compound 🔽	Medication Intermittent	✓ Continuous
Search for:			
docusate 100 Search			
Order Type Minemonic	Generic Name	Strength / Form	Description
M DOCU100	docusate	100 mg / 1 cap cap	docusate 100 mg cap
O M DOCUTULIUU	docusate	100 mg / 10 mL oral liq	docusate 100 mg/10 mL oral liq
M DOCU4L25U	docusate	100 mg / 25 mL oral liq	docusate 100 mg/25 mL oral liq
•			4
Show all manufacturers			OK Cancel

3. In the New Med Order screen confirm the correct dose 100 mg and click the **Update** button

M New Med Order				<b>—</b> ×
Drug: docusate	Dose:	Ordered as: docusate	· P	Update
Drug	Dose	Ordered As		Remove



- 4. Confirm all the mandatory fields in the New Med order screen.
  - a. Route: PO
  - b. Frequency: BID
  - c. Physician: pre-populates
  - d. Communication type: Paper/Fax
  - e. Dispense category: pre-populates
  - f. Dispense from location: pre-populates

#### Click the OK button

M New Med Order			×
Drug:			
			D Update
4 Drug	Dose	Ordered As	
⊿ docusate	100 mg / 1 cap	docusate	II Remove
docusate 100 mg cap			Modify
*Peute: *Erequences	PPN deses	PDN research	Dhunisian
PO V BID	✓ And Custom	(None)	Plisvcb, Stuart, MD
Duration:	* Start date: *Time: P	Stop date: Time:	* Stop type:
(None)	25-Oct-2017		No T
Previous scheduled administration:	Next administration: PDT Skin	Following: PDT	Remaining doses:
	26-0ct-2017 ▲▼ 08:00 ▲	26-Oct-2017	
		20 001 2017 •	
Order comments:		Product notes:	
	<u>^</u>		<u>^</u>
	~		-
Dosage form:	* Communication type:	Order priority: Sequence:	Product
сар 🔻	Paper/Fax 🔻	(None)   MED/IV WOI	Drinting
* Dispense category:	*Dispense from location:	Initial doses: Initial quantity:	Filling
AUD • 60	B EGH EN2 ▼ 66°	0 66 0	Comments
* Billing formula:	Start dispense date: Time:		Order Type
Standard • 66	·**_****		Link Info
Price: Cost:			Alert History
\$0.00			Printegraphics
			Fix intervention
			Lot Info
Patient's own mod			
Auto calculate initial dose			OK Cancel



## 7 Correct Glyburide Order

### Enter Correct Order Glyburide 5 mg PO BID

1. In the Drug field, type **Glyburide** and click **Add** 



2. In the Product Search screen, select line with **glyburide 5 mg tab** in the Description column and click **OK**.

M Product Search				_ = _
Main Settings				
Identifiers				
🗹 Generic name	🔽 Brand name 🔍 Mne	emonic 🛛 Description	☑ Charge number ☑ DIN	V Other:
Product Type		Order Type		
Product V IV	Set 📝 Order Set	Compound Medica	ation 🗹 Intermittent 📝	Continuous
Search for:				
Glyburide	Search			
Order Type	Mnemonic	Generic Name	Strength / Form	Description
	OLYD2.5	gi, BURIDE	2.5 mg / 1 tab tab	glyDURIDE 2.5 mg tab
<u>м</u> м	GLYB5	glyBURIDE	5 mg / 1 tab tab	glyBURIDE 5 mg tab
•	III			4
Show all manufacturer	S			OK

3. In the New Med Order screen confirm the correct dose 5 mg and click the **Update** button

M New Med Order			<b>×</b>
Drug: glyBURIDE	Dose:	Ordered as: glyBURIDE	▼ P Update
Drug	Dose	Ordered As	Remove



- 4. Confirm all the mandatory fields in the New Med order screen.
  - a. Route: PO
  - b. Frequency: qdaily
  - c. Physician: pre-populates
  - d. Communication type: Paper/Fax
  - e. Dispense category: pre-populates
  - f. Dispense from location: pre-populates

### Click the OK button

M New Med Order			<b>X</b>
Drug:			
4 Deve	Deee	Ordered Ar	
	5 mg / 1 tab	alvBLIBIDE	Remove
glyBURIDE 5 mg tab	o ng r lab	gijoonibe	Modify
*Route: *Frequency: PO ▼ BID ▼ 6㎡ C	ustom PRN doses: PRN re	eason: * Physic )  Plisvcb,	ian: Stuart, MD
Duration: *Start date	: *Time: P Stop da	ate: Time:	* Stop type:
(None)	17 - 17:35 - **-**-		No 🔻
Previous scheduled administration: * Next adm	pinistration: PDT Skip Follow	ing: PDT Skip	Remaining doses:
**_***_****	17 <b>1</b> 7 <b>08:00 1</b>	►2017 = 17:00 =	
Order comments:	Product note	35:	
	Ŧ		×
Dosage form: *Communicati	on type: Order priorit	y: Sequence:	Product
tab • Paper/Fax	<ul> <li>(None)</li> </ul>	▼ MED/IV WOI ▼	Printing
* Dispense category: * Dispense from	m location: Initial doses	Initial quantity:	
AUD • 660" EGH EN2	✓ 660 <sup>*</sup> 0	661 0	Comments
* Billing formula: Start dispense	date: lime:		Order Type
Prina: Cast	<b>•</b> •		Link Info
\$0.00 \$0.00			Alert History
30.00			Rx Intervention
			Lot Info
<ul> <li>Patient's own med</li> <li>Auto calculate initial dose</li> </ul>			OK Cancel



#### Screen returns to the Acute Profile.

All orders have the chevron icon denoting the orders need to be submitted.

#### Click the **Submit** button.

8

Acute Profile	Ambulatory Profile	Results	Interventions	Processing Orders	
Drug:					
					Add
A	Action Status		~	Order Sentence	Start
	-	Active	<<	ASA 81 mg / 1 tab tab-EC PO qdaily	12-[ ≡
	-	Voided	<<	docusate 200 mg / 1 cap cap PO BID	12-[
	-	Voided	<<	metFORMIN 250 mg / 1 tab tab PO BID	12-[
	-	Active	<<	docusate 100 mg / 1 cap cap PO BID	12-[
	-	Active	<<	glyBURIDE 5 mg / 1 tab tab PO BID	12-[ 🔻
				Submit Cancel	Apply

## Key Learning Points

Recognize there is no PPM Queue for Residential medication orders

Pharmacy Order Entry is only done through Pharmacy Medication Manager

Ability to process medication orders entered by Pharmacy Technicians by manually using the Action commands based on paper/faxed orders sent to Pharmacy by residential facility.

Ability to directly enter medication orders from the paper/faxed sheet.



# End Book Four

You are ready for your Key Learning Review. Please contact your instructor for your Key Learning Review.