Delivering exceptional patient care



National Integrated Palliative Program

Using Electronic Clinical Management Systems to Drive Best Practices in Palliative Care

CHCA Summit, Vancouver, Oct 22-23, 2018

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Challenges Facing Community Palliative Care



- Situation = A 54 year old female is suddenly needing to be prescribed morphine as Tylenol #3 oral pain medication not addressing symptoms. Family is with the patient at home but has not been told that patient is palliative. Physician order indicates drug but missing duration and formulation. Health authority wants it delivered within 3 hours as a rush request with 2 hours drive time and sends incorrect supplies order to align with physician order. Nursing visit scheduled for 4 hours from order being sent.
- Problem Statement = medical order needs verifying with review between pharmacist and physician, supplies order needs correcting to align with medical order, need to communicate changes regarding delivery expected timing to care team, and communication must be sensitive to family situation and patient choices.



Our approach to support clinicians:

- Electronic clinical management system to support nurses to follow collaborative care plans, track PPS scores, building in advance planning directives early in journey following the "Speak Up" campaign, set goals of care, and triggering need for family conversations, medication reviews and ordering SRK proactively
- BPGs and decision supports built into eCMS to guide practice supporting palliative journeys more proactively so patient and family are prepared for making decisions and feel supported through journey

Cancer Care Ontario Action Cancer Ontario

-Bayshore

Canadian Hospice Palliative Care Association Association canadienne de soins palliatifs



ACTICE ORGANISME HT VEDETTE EN PRATIQUES ATION EXEMPLAIRES

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Our approach to support physicians and pharmacists:

- Electronic order sets that guides correct formulation and dispensing guidelines and supports physicians with decision making when transitioning from oral to infusion based medications
- Established medical order templates to support physicians on prescribing infusion based medications, particularly when not familiar with complexity of order requirements





Our approach to support case managers:

- Online, app-based decision support tool allows health authority to select best selection of supplies that match the specific physician order that accommodates, type of medication, route, duration, and local infusion guidelines
- Electronic formulary catalogue that supports Case Managers to view different supply options, understand equivalencies, and kit contents
- For some programs, we are able to allow case managers to order directly from online catalogue





Our approach to support care team:

- Online order tracking system that allows home care nurses to log in and see ETA for medication and supplies
- For some programs, we are able to update a care team portal allowing view of lab results, physician orders, pre and post infusion results, and changes in status





Palliative Integrated Teams

- Bayshore HealthCare is a Canadian-owned provider of home and community health care services
- Integrating nursing and pharmacy services supporting palliative care
- Includes Bayshore Home Care Solutions and Bayshore Specialty Rx





Integrated Care Teams

- Teams can include nursing, PSW, therapies, pharmacy, medical equipment and supplies, case management
- May include virtual care delivery model for transfer of authority or clinical consultation
- Able to interface data across systems for stakeholder communication and reporting









- Epsilon [™] is a comprehensive platform which includes
 - integrated office and field applications,
 - leading-edge mobile documentation and decision support systems,
 - proprietary processes that integrate all elements of safe, efficient and effective care delivery
- The platform is designed to meet present and emerging home care market needs in the areas of community and facility cluster care, quality indicator reporting requirements and outcome based care models



 The Clinical and care pathways, electronic
 Medication Administration
 Records and advanced
 electronic forms and flow
 sheets allow for real-time
 data interchange and
 decision support at the
 client location, at the time
 of care

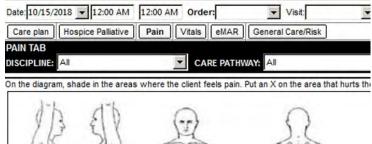
Bunny, Lola Step: Visiting Nursing Entry	Status: Incomplete Care •eMAR Elements: •General Ct •Hospice Pa	are and Risk Hazard			
Date: 10/15/2018 - 12:00 AM	12:00 AM Order: Visit Pain Vitals CARAR General Care/Risk	Reason:	×		_
EMAR TAB DISCIPLINE: All	CARE PATHWAY: All		MET/DONE: All	×	
C Yes		C No			

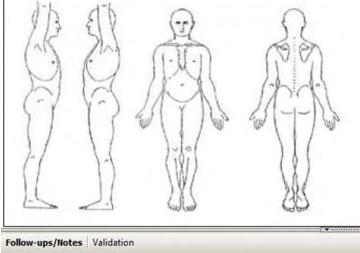
To toggle between the ability to view profile and view admin records, use the side tabs below.

in the second se				1		a local a		1	1000
Code	Description	Prescribed Date Expiration Dat	e Brand Name	Status	Strength	Units	Quantity	Frequency	Route
2224704	LASIX	5/9/2013	LASIX	New	20	mg		o.d.	PO
2041456	ATIVAN	5/9/2013	ATIVAN	New	2	mg		p.r.n.	SL
626112	B-12 1000 INJ 1000MCG/ML	5/9/2013	B-12 1000	New	1	ml		monthly	IM
24694	ATARAX SYRUP 2MG/ML	5/9/2013	ATARAX S	New	6	ml		o.d.	PO
HYDROMOR	PH HYDROMORPHONE HCL	10/15/2018	HYDROM	New	2	mg		q6h	PO



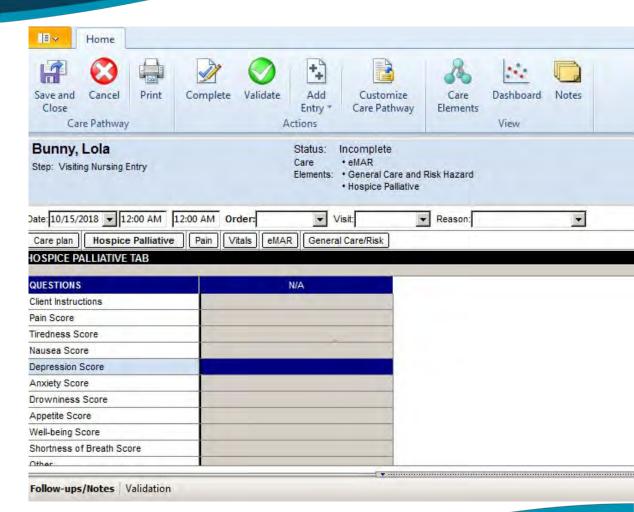
- Together, this makes the clinical documentation more timely and accurate
- Clinical documentation forms the basis of a longitudinal client Electronic Medical Record







 Epsilon [™] has been implemented across various programs since 2013 and is accompanied by extensive staff education and support.



-Bayshore . Home Care Solutions

 We follow the principles of a palliative approach to care ensuring we are meeting client "goals of care" and often reinforce the CHPCA " Speak UP" campaign

Save and Cancel Close Care Pathway Care Pathway Actions		Customize are Pathway			
Bunny, Lola Status: Step: Visiting Nursing Entry Care Elements:	• el/ • Ge	mplete AR neral Care and Risk Hazard spice Palliative			
Date: 10/15/2018 12:00 AM 12:00 AM Order: Care plan Hospice Palliative Pain Vitals eMAR Genera CARE PLAN TAB Actual/Potential risk related to impaired health status Actual/Potential risk related to impaired health status	Visit:	Risk All risks will be identified and managed	***	g	Clinician will assess, identify and support client/caregiver with effective management of all actual or potential risks
Actual/Potential medication mismanagement	G	Client's medication administration will be effectively managed		g	Clinician will assess and support client/caregiver with effective medication management
Phase 1: Stable (PPS 100%-70%) Knowledge deficit r/t Hospice Palliative	g	Client/caregiver identifies most responsible physician identified		Q	Nurse, in collaboration with client/family will determine most responsible physcian
diagnosis, prognosis, and or disease process		Client verbalizes understanding of disease progression and treatment plan		Q	Nurse will provide teaching to client/family re: disease progression and treatment plan
Phase 1: Stable (PPS 100%-70%) Knowledge deficit r/t HPC advanced	g	Client/caregiver identifies POA-PC or substitute decision maker		Q	Nurse provides teaching to client/caregiver on the importance of identifying a POA for personal care or substitute decision maker
care planning		Client/caregiver verbalizes resuscitation status	***	g	Nurse explains and teaches client/caregiver about resuscitation status
Phase 1: Stable (PPS 100%-70%) Comfort r/t pain	Q	Client/caregiver maintains optimal pain control	***	G	Nurse teaches client/caregiver pain management strategies



Speak Up

Specialty Pharmacy Network

- Pain management and palliative care programs
- Ambulatory pumps programming and maintenance expertise
- IV administration expert consultants
- Cold chain distribution
- Warehouse
- Logistics services





Specialty Pharmacy Network

- 13 specialty infusion pharmacies across the country
- ISO-5 Clean room in compliance with USP<797> and NAPRA standards
- Dedicated Hazardous compounding room in compliance with USP<800>
- High Tech fully automated TPN compounder





Pharmacy System – Kroll[™]

- Kroll ™ is the pharmacy software which helps pharmacist optimize operations and enhance customer experience.
- It has features like:
 - Prescription filling
 - Online adjudication
 - Alerts to help pharmacist minimize:
 - Duplication of therapy
 - Drug Drug Interaction
 - Drug Allergy Interaction
 - Extensive reporting

F3 - Patient	F5 - Drug	F7 - Docto	F9 - 1	Workflow	F11 - Drop-off	F12 -	Fill Rx		Alt+X - S	Start		
New Rx F	Pending Adi				Rx Start Date Late 17/10/2018 0	st Fill Qty			Init	Looku	Cancel	≈ Rx
Priority	• F2 Due	1	Fill	Rx	F2 Work Order 0	F2	Delivery	Store D	aliven	+		Make Rx Unfilled
Patient Search			Drug Search		1	+ Pack				Loc	VIC	R Make Rx Not Dispensed
	and and a	1				• Pack			pta. Asha	LOC	Ance +	Make Rx Stock Transfer
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City Markham		V ON	Pack	1 Form		Jonia (Jul	City	Missis	sauga		Prov ON	🔂 Add Rx Image
Phone Home	(647) 709-1413		ODB BAP	\$	4.83 OnHand -38,52	No image	Phone	(905) 8	13-1100			Transfer Rx From Another Sto
Plan ODB (lient ID P8176094467		DIN 008	808652	Min Qty 0	10	Lic#	80792		Alt. Lie	# 020025	Call Doctor
							PCFA					& Counsel Patient on Pickup
Allergies (0)		-	Sig SRKCEHA	10		_	Init	MKP	MKP	Auth Qty	2 1	C Owe Quantity
		1		-	MG (0.4ML) SUBCUTAN	FOULTINOR	Disp Qty		mL	Rem Qty	2 1	∛ View
			UNDER THE T	TONGUE EV	ERY HOUR AS REQUIRE		Days	1	Inte	G.P. %	49.84	(1) Clinical Interactions
			NAUSEA / DI	ELIRIUM			Prod Sel		-	Acq Cost	\$9.66	
Conditions (0)							1.	-		Cost	\$9.66	I Plan Information
			Route of Adm	in 1	ntramuscular		0/W	Faxed	-	Markup	\$0.77	Patient Plan Information
							Labels	1	F2	Fee	\$8.83	E Generic Equivalents
			Dosage Form		Ampul (mL)	•				Total	\$19.26	C Unit Dose Info
Plans Pricing D	at <u>e</u> s <u>C</u> omments Indic	ations Ima	ges Other	1	Unit Dose (Ctrl-U): Disa	abled						to Work Order
Rx Plans	Plan Pays Extra Info	(F2 Edits)			👎 Not enough inver							Rx Counseling History
DB -	Not Adjud.				VAuto Order is dis		s drug					Workflow
ESI41 Cash	Not Adjud. Inter: DA				Delivery Label wil	l be printed						Wiew Workflow Detail
Cash • Next Disp Qty	Not Adjud. Deduct: S0 0 Min Interval Davs Max Disp Qty		Auto Refi									steriosto Windows



Kroll

Pharmacy Order Sets

- Order sets are Bayshore designed pdf documents that assist:
 - Doctor:
 - In complex calculations when changing oral/topical pain medication to Subcutaneous pain pump order. Order sets were developed to include automation for formula calculations
 - Bayshore Pharmacist and Pharmacy Assistants:
 - In making sure compound sheet are created correctly with accurate calculation, automatic selection of proper container and detailed information about drug being compounded
- Order sets are tested thoroughly by a team of clinicians, pharmacists and IT experts to make sure they deliver what they are designed for expected results



Opioid Conversion Guide

-Bayshore

OPIOID CONVERSION GUIDE

Units 9-11, 70 Esna Park Drive, Markham, ON L3R 6E7 T: 1-888-313-6988 F: 1-888-287-8577

Patient's cur	rent medication		Course	sion factor
Name of medication	Total dose in last 24	hours	Conver	sion factor
Morphine oral	20	mg	1	0:1
Hydromorphone SC	5	mg		1:1
Hydromorphone oral	10	mg		2:1
Morphine oral Morphine SC Hydromorphone oral Hydromorphone SC Oxycodone Fentanyl Patch Fentanyl SC				
Desired medication for parenteral pa	in pump order	Hydrome	orphone So	C
Route of administration If IV, basal rate vol. must be min. 0.5n	nl/hr)	SC		1
Recommended rate of administration	1	0.5	5	mg/hr
Enter the frequency (minutes) you w eg: 60 minutes, 30 minutes Recommended: 30 minutes	ant patient to get a bolus dose	20	1	minutes
Recommended PCA bolus dose		0.4		mg
Preferred concentration		2	9	mg/mL
Preferred reservoir size	1	10	0	mL



Compounding Order I

Name: Patient						Date	: 5-00	ct-201	8	
Order: HYDROmor		ng/hr;(max	7 mg/hr); s -	Bolus 1					PRN
Final Product: HYI		100		_				-		
Stability: 30 Days		Refrigerate	-		-	Sterile Emp	oty Bag***	Remo	ove Air:	YES
	***§				111				R. Ph.	
Medication	Final Conc.	Total Amount to withdraw	Quantity	Due Date	Comp Date	Prep room Initials	Clean Room Initials	Prep Room Initials	Or R. Ph. T Initials	Cassett /Bag
Additive 1							1			
HYDROmorphone	100 mg/mL	 								1.7
Additive 2		80								
Normal Saline	1000	mL								
REFILLS	-	-	-	-				1	1	

Compounding Order II

Medication Final Conc. Amount to Quantity room Room Room	New Dationt N	lama					Dette	E O	+ 201	0	
Image: Final Product: HYDROmorphone 20 mg/mL = 2000 mg in 100 mL Stability: 30 Days Storage: Refrigerate Bag Size: 100 mL ***CADD Cassette*** Remove Air: YES Comment/Special Instructions Image: Medication Final Conc. Total Amount to withdraw Quantity Due Date Comp Prep room Room Initials Remove Air: YES Additive 1 100 20 Date Prep Date Clean Room Initials Prep Room Initials R.Ph. Casse Zase Additive 1 100 20 mL Image: I				and the second s		_		- 10 C - C - C -			_
Stability: 30 Days Storage: Refrigerate Bag Size: 100 mL ***CADD Cassette*** Remove Air: YES Comment/Special Instructions ***CADD Cassette*** Remove Air: YES Medication Final Conc. Total Amount to withdraw Quantity Due Date Prep room Initials R.Ph. Or R.Ph. T Initials Casse // Remove Air: YES Additive 1 100 20 M. M. M. M. M. M. Lot # Epiry Additive 2 80 M. M. M. M. M. M.	Order: HYDROmor	phone 7	mg/hr;(max_	7 mg/h	r); S -	Bolus _	10 mg;(max_10	_mg); q	30 min	PRN
Comment/Special Instructions ***CADD Cassette*** Medication Final Conc. Total Amount to withdraw Quantity Due Date Comp Date Prep room Initials Clean Room Initials Prep Room Initials R.Ph. Or R.Ph. T Initials Casse /Ba Additive 1 100 20	Final Product: HYD	ROmorphon	e _ 20 _ mg/	/mL = 200	0 mg i	n_100	mL				
Medication Final Conc. Total Amount to withdraw Quantity Due Date Comp Date Prep room Initials Clean Room Initials Prep Room Initials R. Ph. Or R. Ph. T Initials Casse /Ba Additive 1 100 20	Stability: 30 Days	Storage: I	Refrigerate	Bag Siz	e: 100		CADD Ca	assette***	Remo	ove Air: `	YES
HYDROmorphone 100 20 Lot # mg/mL mL Additive 2 80 Normal Saline mL			Total				Prop	-		R. Ph.	
HYDROmorphone 100 20 Lot # mg/mL mL Additive 2 80 Normal Saline mL					Due	Comp					Casse
HYDROmorphone	Medication	Final Conc.	Amount to	Quantity	and the second		room	Room	Room	Or R. Ph. T	
Additive 2 Normal Saline		(manual)	Amount to withdraw	Quantity	and the second		room	Room	Room	Or R. Ph. T	
Normal Saline mL	Additive 1 HYDROmorphone	100	Amount to withdraw	Quantity	and the second		room	Room	Room	Or R. Ph. T	
REFILLS	Additive 1 HYDROmorphone Lot # Expiry	100	Amount to withdraw	Quantity	and the second		room	Room	Room	Or R. Ph. T	
	Additive 1 HYDROmorphone Lot # Expiry Additive 2	100	Amount to withdraw 20 mL 80	Quantity	and the second		room	Room	Room	Or R. Ph. T	
	Additive 1 HYDROmorphone Lot # Expiry Additive 2 Normal Saline	100	Amount to withdraw 20 mL 80	Quantity	and the second		room	Room	Room	Or R. Ph. T	Casse /Ba
	Additive 1 HYDROmorphone Lot # Expiry Additive 2 Normal Saline	100	Amount to withdraw 20 mL 80	Quantity	and the second		room	Room	Room	Or R. Ph. T	

Benefits to Electronic Order Sets

- Clarification of orders process has:
 - Reduced the number of physician errors
 - Improved time expected to process orders
 - Increased standardization of complex medication dispensing orders
 - Reduced duplication and number of errors in supply orders



Symptom Relief Kits

Benefits:

- Readiness for family
- Support for patient
- Part of advanced care planning







Evaluation of Programs

Metrics to Evaluate Pharmacy Programs:

- # Physician errors / total orders
 - Triggers need for additional support for physicians by region
- # order errors for supplies / total supply orders
 - Need for support for additional training for case managers by region
- # patients with SRKs / # palliative program patients in a year
 - Need for support for additional ACP training
- # Deliveries on time / total orders
 - Timely access to pain and symptom relief



Evaluation of Programs

Metrics to Evaluate Clinical Programs:

- Length of Stay by Palliative Performance Scale stage compared across programs
 - Better outcomes achieved with early referrals
- Satisfaction surveys
 - Family experience helps to understand risk of burn out and need for bereavement support
- Preferred place of death
 - Patient satisfaction and managing change through palliative journey





I wonted to sold a grack wood of thank you Cur Jean of Laburdge theather estama try to previde the in home pathotice care for putrats they conditions thange so quickly and we try to to repared but ofter we are in hard

your team is always so allow datine and kind about our urgent The padients thank is and hear see you or the you do to Hank you deredly. want the thank you you have closen a hard job (10 a pharmacest share are many ther easier options. I guess the Could be said for the physicians to but us - sad



Di Caroline miallister

Dear Pharmacists,

I would like to send a quick word of thank you. Our team at Lakeridge Health Oshawa try to provide the best in home palliative care for our patients. Their conditions change so quickly and we try to be prepared but often we are in need of urgent medications.

Your team is always so accommodating...and kind about our urgent requests! The patients thank us often and never see you or the work you do to thank you directly. So I want to thank you.

You have chosen a hard job as a pharmacist, there are many other easier options. I guess the same could be said for the physicians on our team too...but as I said we see the patients, we hear their thank you, we see the relief of the medicines you provide.

Thank you for all you do and your commitment to a challenging time sensitive profession.

Sincerely, Dr. Caroline McAllister





Our Presence Across Canada



Bayshore HealthCare is a family of more than 13,000 staff members



Over 100 Locations 65 Home Care Offices 13 Pharmacies 75+ Community Care Clinics



Every year we take care of more than 375,000 Canadians



Bayshore caregivers provide over 11,000,000 hours of care per year



Over 50 Years of Health Care in Canada







Passionate, Caring

Imagine being the difference.



Thank you

from the Bayshore Family

We look forward to working with you and supporting your health, your way, in your community.







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