BC Provincial Pediatric Early Warning System PEWS Regional Workshop





This Session Will

- Explain The Provincial Pediatric Early Warning System (PEWS)
 - PEWS score
 - Situational Awareness Factors
 - Provincial Escalation Aid
 - SBAR Communication Tool
- Describe & review the Provincial PEWS flowsheet
- Demonstrate how to calculate a PEWS score
- Identify supports & resources available to assist you in using PEWS
- Provide an opportunity for you to apply the components of PEWS using case scenarios

What is PEWS?

- ✓ A clinical tool for frontline staff
- An evidence informed system to support improved recognition and response to pediatric deterioration
 - A system we can and are implementing across BC's hospitals that provide care to children

PEWS is:

- For all patients regardless of acuity
- A complete system-not just a score
- A support for clinical decision making
- Provides a common language to support effective communication

PEWS is not a substitute for clinical judgment



Why do we need earlier warning of a child's compromise?

✓~63 to 89% of children do not survive cardiac arrest

✓ Morbidity in survivors remains high despite advances in resuscitation training, technology and treatment

✓ Evidence indicates **prevention is possible**

✓ Pediatric patients may demonstrate physiologic and behavioral symptom deterioration up to 24 hours prior to cardiopulmonary arrest





Provincial Approach

- A variety of PEWS tools are in use internationally
- Child Health BC worked with Provincial Health Authority Planners to develop a PEWS that will work across the province
- The provincial approach includes the Brighton Scoring Tool and the Cincinnati Situational Awareness Model

Who is Child Health BC?

A provincial network- working to build an integrated, accessible system of health services for children.



The Purpose of the PEW System

- Identify pediatric patients who are at risk of deterioration
- Mitigate the risk (through clinical and procedural response)
- *Escalate* to a higher level of care if mitigation is unsuccessful

... and do it all sooner!



What is the BC PEW system? A standardized, evidence-based system for recognition and response to deterioration...



1. PEWS Score

The Brighton PEWS score can range between 0 and 13 Higher PEWS scores are associated with higher risk of clinical deterioration

There are 6 flowsheets:

0-3	4 - 11	1 - 3
months	months	years
4 - 6 years	7 - 11 years	12+ years

Brighton PEWS Scoring Table

		Brightor	n Pediatric Early Warning	Score				
	0	1	2	3	SCORE			
Behaviour	Playing Appropriate	Sleeping	Irritable	Lethargic &/OR Confused &/OR Reduced response to pain				
Respiratory	Within normal parameters No recession or tracheal tug	10 above normal parameters, Using accessory muscles, &/OR 30+% FiO2 or 4+ liters/min	 >20 above normal parameters recessing/retractions, tracheal tug &/OR 40+% FiO2 or 6+liters/min 	5 below normal parameters with sternal recession/retractions, tracheal tug or grunting &/OR 50% FiO2 or 8+liters/min				
Cardiovascular	Pink/Normal &/OR capillary refill 1-2 seconds	Pale &/OR capillary refill 3 seconds	Grey &/OR capillary refill 4 seconds Tachycardia of 20 above normal rate.	Grey and mottled or capillary refill 5 seconds or above OR Tachycardia of 30 above normal rate or bradycardia				
Q 20 minutes bronchodilators &/OR persistent vomiting following surgery (2 points each) TOTAL PEWS SCORE								

Monaghan A. Detecting and managing deterioration in children. Paediatr Nurs. 2005; 17:32–5.

Flow Sheet & PEWS Score



2. Situational Awareness -factors that

contribute to the risk of pediatric clinical deterioration



Cincinnati Children's found these factors to be 100% sensitive predictors of serious deterioration. Addressing all five on a regular basis helped teams improve predicting & preventing deterioration 13

Situational Awareness

Here is a short video from Cincinnati Children's

http://www.risky-

business.com/video.php?video

<u>id=74</u>



3. Escalation Aid



Provincial Pediatric Early Warning System (PEWS) Escalation Aid

4 &/or score increases 5 – 13 or score of "3" 0 - 12 3 by 2 after in one category interventions • As per PEWS Score 2 As per PEWS Score 2 AND • As per PEWS Score 4 Review patient with a AND MRP to assess more experienced notify most responsible SYSTEM SCORE healthcare provider physician (MRP) or patient immediately (& delegate pediatrician if available) Escalate if deemed Notify further consultation Consider pediatrician If MRP unable to attend. required OR resources consult if patient call for STAT physician do not allow to meet deteriorates further review as per MRP's care needs direction Appropriate "senior" review MRP or delegate As per PEWS Score 4 PEDIATRIC EARLY WARNING communicate a plan of care Plan to mitigate contributing factors of deterioration As per PEWS Score 1 Continue monitoring & Increase frequency of Increase frequency of As per PEWS Score 4 Assessment documentation as perassessments & assessments & document orders & routine documentation as per as per plan protocols plan from consultation with more experienced healthcare provider Reassess adequacy of Increased nursing (1:1) resources available and care with increasing escalate to meet deficits Resources interventions as per plan Consider internal or Reassess care location – external transfer to higher consider internal or external level of care transfer to higher level of care **SITUATIONAL AWARENESS** If patient is assessed with one or more of the following situational awareness factors: Parent concern Watcher patient Follow PEWS Score 2 actions Unusual therapy Breakdown in communication

4. Standardizing Communication (SBAR)

What is SBAR?

SBAR (Situation-Background-Assessment-Recommendation) technique provides a framework for communication between members of the health care team about a patient's condition

SBAR Communication Tool

Situation: What is the situation you are calling about?
I am (name), a nurse on ward (X) I am calling about (patient X)
I am (name), a nurse on ward (X)
- · · ·
I am calling because I am concerned that
(e.g. BP is low/high, pulse is XX, temperature is XX, PEWS score is X)
Background: Pertinent Information & Relevant History
Patient (X) was admitted on (XX date) with(e.g. respiratory infection)
They have had (X procedure/investigation/operation)
Patient (X)'s condition has changed in the last (XX mins)
Their last set of vital signs were (XXX)
Assessment: What do you think the problem is?
I think the problem is (XXX) and I have(e.g. applied oxygen/given analgesia,
stopped the infusion)
OR
I am not sure what the problem is but the patient (X) is deteriorating
OR
I don't know what's wrong but I am really worried
Recommendation: What do you want to happen?
I need you to
Come to see the child in the next (XX mins)
AND
Is there anything I need to do in the meantime? (give a normal saline bolus/repeat
vitals/start antibiotics)
Ask receiver to repeat key information to ensure understanding

Creating a Common & Clear Picture of Risk

Visual cues for all healthcare providers to recognize patients at risk of deterioration

Standardized check-in processes between charge nurse and RNs

		Patient	EDD	Doctor	RES/MSI	Team	RN Phone #	LO RNSTY
	1	(Bernard B)	U	JACOBSON		GI	5749	Layia vy
	2		P1	PANA		CF	5749	Laura 41.
	3	Farmer 18	177	DHYTHHAN	Alyaha	CPU	5749	Lauran
	4	RUE RL	DZ	Dmytryshyn	Mes	сти	5743	Saki K
	5	South fa	PU	HASTERSO.		10101.	5743	Sukiluone
新	6	-	Da	LILLAUIST		CF	5743	Suki Cany
81	7	Fig. 1	Ŧ	SKG				11 1. 004
AF	8	-	D3	YNNG		C.F/END	5744	Katie
	9	and the state	D5	DMYTAYSHN	Algebra	CTU	5744	Katie
-	10	States in	N27	WHITE		R	5744	Katie AL: Twine
	1	1.1.1	D5	Phytoyuhyn	JATINDER	CIU	5748	All your
I	12		15	HSK	Jud index	Сти	3748	FAT: Emily
1	1	-	44	ATIE				

Example: patient room number coloured in red on white board

Case Study: Documentation

Baby Smith:

- 5-month-old admitted with RSV
- Previously vigorous in her activity-now lethargic with a sunken fontanel
- RR 70 with increased use of accessory muscles
- SaO₂ is 95% on 1 L/min of NP
- HR 160, she is pale, cap refill is 4 seconds, BP 82/46
- No wet diapers for 10 hours.

How to Score: Respiratory



How to Score: Cardiovascular









How to Score: Behavior

PEWS Scoring

Legend



<u> </u>	Playing/appropriate								
n	Sleeping								
ÿ	Irritable								
a	Lethargic/confused	Х							
Ч.	Reduced response to pain								
Bel	PEWS Score for Behaviour (record most severe score)	3							



How to Calculate Total PEWS Score



ß	Persistent vomiting following surgery	0							
Ň	Bronchodilator every 15 minutes	0							
<u>د</u> ۱۳۰	Total PEWS Score C + B + vomiting + bronchodilator)	· /							
111			\mathcal{F}						

Maria is:

- 2-years-old, recently diagnosed with Leukemia
- Resp rate of 55, SaO₂ is 92% on room air
- Developed a fever last night 38.8 °C axilla
- She is lethargic and confused
- Tachycardic at 155 BPM, pale, cap refill is 5, BP 98/55
- Persistent vomiting
- Her mom is extremely worried about her
- Has not voided since the previous afternoon.







- 4-years-old, newly diagnosed diabetic
- Transferred to your unit from the ED with an initial PEWS Score of 0
- Respiratory rate 50, SaO₂ 90% on room air
- Heart rate 90, pale, cap refill 3 seconds, BP 110/78
- You find her irritable and increasingly lethargic









You have received your patient assignment for the day. You are looking after a three year old girl, Molly, who has been admitted a few days ago with Pneumonia. Her Mom is staying with her. She was started on Cefotaxime 1000mg q8h. She has been drinking well.



Case Continued

- Her health history includes no developmental delay, history of asthma and allergy to sulfa drugs.
- She is toilet trained but has been wearing pullups in hospital.
- Admission weight was 20 kg. Previous 24 hour was 19.8 kg.

0720

- You go in to check on your patient and do your bedside safety check.
- Pt is asleep.
- Bedside safety check (O2, suction, crib rails up, clear access to bedside)
- IV pumps are in the correct profile
- IV solution D5NS at 15 mL/hr.

Respiratory PEWs

Respiratory:

- RR 38, 02 saturations 98% on room air
- Mild shortness of breath on exertion
- Frequent cough
- A/E equal BL with scattered crackles
- LLL wheeze



PEWS Scoring Legend:





Respiratory Assessment

CTAS 2013 Respiratory Distress Definition:

Mild: Dyspnea; tachypnea; shortness of breath on exertion; no obvious increased work if breathing; able to speak in sentences; stridor without obvious airway obstruction; mild shortness of breath on exertion; frequent cough.

Moderate: Increased work of breathing, restlessness, anxiety, or combativeness; tachypnea; hyperpnea; mild increased use of accessory muscles, retractions, flaring, speaking phrases or clipped sentences, stridor, but airway protected, prolonged expiratory phase.

Severe: Excessive work of breathing, cyanosis; lethargy, confusion, inability to recognize caregiver, decreased response to pain; single word or no speech; tachycardia or bradycardia; tachypnea or bradypnea; apnea irregular respirations; exaggerated retractions, nasal flaring, grunting; absent or decreased breath sounds; upper airway obstruction (dysphagia, drooling, muffled voice, labored respiration's and stridor); unprotected airway (weak to absent cough or gag reflex); poor muscle tone.

Respiratory Assessment

RESPIRATORY	BREATH SOUNDS	CHEST MOVEMENT
	Clear to bases	Equal & adequate
Respirations even and unlaboured		
Respiratory distress:		See Nurses' Notes
Mild Moderate Severe		
Nasal flaring	Wheezes: Inspiratory Expiratory	
Tracheal tug		
Head bobbing		
	LUL LLL Throughout	
Indrawing:	Stridor Grunting	
Intercostal Subcostal	Referred upper airway sounds	
Substernal	Cough: Dry Loose	
Abdominal breathing	Productive	
	Nasal congestion	
Scalene contractions	See Nurses' Notes	
See Nurses' Notes	AIR ENTRY	
	Equal to bases	
	Decreased to:	
	LUL LLL Throughout	

See Nurses' Notes

Cardiovascular PEWS Scoring

- HR 138 per minute
- Cap refill 1-2 sec.
- BP 110/68
- Pale •

190 Heart Rate (1 minute) 180 & Blood Pressure 170 160 Systolic: V 150 Diastolic: A 140 _ 130 cula (Do not score blood pressure) 120 Normal Parameters: 110 Systolic (mmHg): 100 85 - 109ardiovas 90 Diastolic (mmHg): 37 - 6780 70 Apex: • 60 Monitor: * 50 MAP 1-2 seconds Ű Capillary Refill 3 seconds Time 4 seconds ≥5 seconds Pink Pale Skin Colour Grey/Cyanotic Grey & Mottled PEWS Score for Cardiovascular (record most severe score)





Cardiovascular Assessment

- Warm to touch
- Pulses normal

CARDIOVASCULAR							
CENTRAL COLOUR	Pink Pale Mottled						
PERIPHERAL TEMPERATURE Warm to: Extremities Other	APICAL PULSE Regular Irregular Murmur Other						
See Nurses' Notes	See Nurses' Notes						
PERIPHERAL PULSES	Normal Nurses' Notes						
Left radial/ulnar/brachial							
Right radial/ulnar/brachial							
Left femoral/D pedis/P tibialis/p	opliteal						
Right femoral/D pedis/P tibialis/	popliteal						

See Neurovascular assessment record



Behaviour PEWS Scoring

- Awake, quiet
- Co-operative

-	Playing/Appropriate		
R	Sleeping		
ï	Irritable		
haviour	Lethargic/Confused		
- u	Reduced response to pain		
Bel	PEWS Score for Behaviour		
	(record most severe score)		


Persistent Vomiting following Surgery & Bronchodilator

Persistent vomiting following surgery	2
Bronchodilator every 20 minutes	2



2 points each This is how the score can be 13



Chart Total PEWS Score

- With each vital sign assessment
- If PEWS Score is zero please chart **0**



What is Molly's PEWS score? What are your actions?

		0 – 1	2	3	4 &/or score increases by 2 after interventions	5 – 13 or score of "3" in one category
SYSTEM SCORE	Notify		 Review patient with a more experienced healthcare provider Escalate if deemed further consultation required OR resources do not allow to meet care needs 	As per PEWS Score 2	 As per PEWS Score 2 AND notify most responsible physician (MRP) or delegate Consider pediatrician consult if patient deteriorates further 	 As per PEWS Score 4 AND MRP to assess patient immediately (& pediatrician if available) If MRP unable to attend, call for STAT physician review as per MRP's direction Appropriate "senior" review
ARNING S	Plan				MRP or delegate communicate a plan of care to mitigate contributing factors of deterioration	As per PEWS Score 4
RIC EARLY WARNING	Assessment	Continue monitoring & documentation as per orders & routine protocols	As per PEWS Score 1	 Increase frequency of assessments & documentation as per plan from consultation with more experienced healthcare provider 	 Increase frequency of assessments & document as per plan 	As per PEWS Score 4
PEDIATRIC	Resources				 Reassess adequacy of resources available and escalate to meet deficits Consider internal or external transfer to higher level of care 	 Increased nursing (1:1) care with increasing interventions as per plan Reassess care location – consider internal or external transfer to higher level of care
SITUATIONAL	AWARENESS	If patient is assessed with (Parent concern Watcher patient Unusual therapy Breakdown in comm		situational awareness factors		

Temperature

• Temp 37.4



Neurological Assessment

- This is to be done per shift or more frequent as condition or orders determine
- GSC and Pediatric modified GCS will be in resource pack ——>

- CWMS charting is still required on limb assessment form for orthopedic patients
- Bladder function reflects normal tone/emptying

		PUPII	s	Size	Rig	ht	
					L	eft	
		B=E	Brisk Sluggish	Reaction	n Rig	ht	
		F = F			L	eft	
	Ν			5	Spontaneous	4	
		E Y			To speech	3	
	Ε	Ē			To pain	2	
			C = Clo	sed	None	1	
	U	v		Co	os/Oriented	5	
	D	E R		Irritable Ci	ry/Confused	4	
	n	в	Cri	es to pain/I	nappropriate	3	
	Ο	A	Moans to	pain/Incom	nprehensible	2	
		L.				1	
	L				ous / Obeys	- H	
		M O			h / Localized	-	
	Ο	Ť	Withdr		/Withdraws	-	
5	C	0			ormal flexion	-	
•	G	R		Abnorm	al extension	-	
			_		Flaccid		
					ORE GCS	_	
	С		cle Stre	ength cale below	Right Arr	-	
J		Rate 0		cure peren	Left Arr	-	
	Α				Right Le	Ŭ ⊢	
ł					Left Le	-	
	L			ARMTH ON OF	Right Arr	-	
-		EXT	REMITI	ES	Left Arr	-	
		✓ = No NN = N	ormal Nurses' No	otes	Right Le	- F	
		BLA	DDER	✓ = No		9	
			CTION	NN = N	Jurses' Notes		

Regular Checks

• Pain (see resources)





Regular Checks

		Enteral / Gastric Tube	
	Regular Checks	IV Site to Source: Touch, look & compare q1h	
		Patient Safety Check q1h	
	PRAN	I Score (Asthma patients only)	
С		Phototherapy/Eye Shields	
A			
R		Repositioning q h	
n		Ambulation	
Ε		Foley Care / Pericare	
-	Routine	Shower (S) / Bath (B)	
	Nursing Care	Mouth care	
	0	ximeter site probe change q4h	
		Family presence	

- Hourly for IV site to source & TLC
- Hourly Enteral/Gastric if in use
- PRAM as ordered and PRN (Asthma only)
- Hourly Phototherapy/Eye Shield if in use

Assessment

- Initial head to toe assessment to be complete at the start of each shift
- Document time of assessment and initial

Assessment	Time:	Initials:
------------	-------	-----------

Strike a line through any assessment data to indicate that it does not apply or has not been assessed Check boxes \checkmark to indicate assessment findings.



QUALITY CHECKS & SCORES

Indicate completed check with a ✓ and insert actual score into box

Alarms on & reviewed	Braden Q Score
Identification Band on	Mobility
Allergy Band on	Activity
Bedside Safety Check	Sensory Perception
Violence Prevention Screen	Moisture
Patient plan of care updated	Friction & Shear
Falls Risk Assessment score	Nutrition
Family orientation / Education to area / Diagnosis	Tissue Perfusion
Seizure chart	Total Score



Mental Health

Continue to chart on the Mental Health documents in addition to this assessment

PSYCHOSO	CIAL / BEI	HAVIORAL
AFFECT/MO	DOD	
☐ Happy ☐ Withdrawn ☐ Flat		Anxious
Mental Hea	Ith Status Ex	am
See Nurses	'Notes	



PERSONAL SAFETY PRECAUTIONS

None Suicidal Elopement

Siderails Up

Other ____

Violence Prevention Care Plan insitu

See Nurses' Notes

Additional Assessment

GI:

• Abdomen soft and round, BS x 4

GASTROINTESTINAL ABDOMEN Flat Rounded Soft Firm Distended Shiny Tenderness: Shiny LUQ RLQ LLQ Guarding See Nurses' Notes BOWELS Last bowel movement See stool chart	BOWEL SOUNDS Present Absent Location of bowel sounds: RUQ LUQ RLQ LLQ See Nurses' Notes NUTRITION Oral ad lib Breastfeeding NPO Nausea Vomiting Meal Plan See Nurses' Notes	Suction:
Last bowel movement	Meal Plan	Continuous Intermittent
 See stor chart Ostomy site Drainage: Yes No See Nurses' Notes 	FEEDING N/A Continuous Bolus Intermittent qh	See Nurses' Notes

Additional Assessment

GU:

• has a pull up on, no void

GENITOURINARY	
BLADDER	REPRODUCTIVE N/A
Self-voidingDiaperCatheter: SizeIntermittentContinuous	Menses at present
See Nurses' Notes	
URINE N/A Dilute Concentrated	
Colour: Clear Cloudy Amber Yellow Other Hematuria: Slight Moderate Marked	
See Nurses' Notes	

Additional Assessment

Musculoskeletal

Integument

Hydration

MUSCULO-SKELETAL

\sim		-
9		

Steady Unsteady Not observed Ambulatory/Walker Wheelchair See Nurses' Notes

DEVICES N/A Traction Cast

Splint Brace Other See Nurses' Notes

Site:

DRESSINGS || N/A

Dry & intact

Location Type

INTEGUMENT

Skin clear Bruising Petechiae Rash Location See Nurses' Notes PHOTOTHERAPY \[\N/A] Start date Type Irradiance See Nurses' Notes MUCOUS MEMBRANES

1000000	MENDIAN	20
Pink	Intact	Lesions
🗌 Painful	Drooling	
Stomatitis	s/Mucositis G	rade
See Nurs	es' Notes	

VAC continuous/intermittent at _____ See Nurses' Notes DRAINAGE N/A Fresh Old Sanguinous Serous Serosanguinous Purulent None See Nurses' Notes DRAIN N/A Insitu

mm Ha

HYDRATION

Central edema present: Yes No		
Peripheral edema present: Yes No		
Skin turgor: 🗌 Elastic 📃 Poor		
Skin: Dry Diaphoretic		
Mucous membranes: Moist Dry		
See Nurses' Notes		
FONTANELLE N/A		
Closed Flat & soft		
Full/bulging Sunken		
See Nurses' Notes		

Additional assessment

• Other measurements

Other Measurements: (For example: height, abdominal girth, head circumference, photometer, peak flows)

Other measurements include Head Circumference, PICC length, abdominal girth etc.



0900

Molly's weight today is 19.7 kg. Molly ate a small amount yogurt and 50 mL's of apple juice for breakfast. She walks with her Mom to the BR and her pull-up is changed for 220 mL clear amber urine.

(Molly's admission weight was 20 kg & previous 24 hours was 19.8)



In's and Outs

	07	08	09	10	11	1900
D5NS	15	15 30	15 45	15 60	15 75	180

Record the actual time of reading the pumps, pump cumulative at the bottom, calculated infused amount at the top





Time:	07	08	09	10	11	12	13	14	15	16	П	18	19	20	21	22	23	24	01	02	03	04	05	06
IV-D5NS	24 24	24 48	24/12	24/96	10	10	10	10	10	10	10	10	10/10	10,20	10 50	1040	10 50	10 60	10 10	10	10 90	10	10	10,2
	1	12	/	1	/		1	/	/	/	100		/	1	1	1	/	1		1	1	/		
	1		/	1	/	1	1		/	/		/	/		\mathbb{Z}	1	1	1	1	/	/	/	/	2
PO	1	1	/	/	/	1	1	1	/	/	/	/	1	2	1	1	/	1	1	1	1	1	1	
	1	/	/	/	/	1	1	/	/	/	/	/	/	1	1	1	1	/	1	1	/	/	/	2
NG-Similac Advance	1	1	/	/	150	15	15 30	1545	15 60	15	15 10	15	15	15 30	15-45	15 60	15	15	15	15	15	15	15 15	15
- med/Flysh	/	1	/	/	/	/	1	3 3	/	/	/	3 6	/	1	1	33	/	1		36	1	/	1	3
	1	1	/	1	/	/	\sim	/	/	/	/	/	/	1	1	/	/	/	/	1	1	/	/	1
Cumulative Total IN:				96		1.1	-	198				301				103				206				30
Unne	/	90 10	/	1	20/110	/	1	/	/	1	/	30	/	/	1	30 50	/	2050	/	/	/	/	1	40 9
	/	/	/	/	/	/	1	/	/	/	/	/	/	/	/	/	/	/	1	/	1	/	/	1
Stool	/	/	/	/	/	/	/	/	/	/	/	/	/	\geq	/	1	/	1	1	1	/	/	/	1
	/		/	/	/	/	1	/	/	/	1	/	/	/	/	/	/	/	1	/	1	1	/	1
Cambo	/	/	/	1	/	/	80 80	/	/	60140	/	1	/	48	/	/	/	1		1	28 76	/	/	1
	/	/	/	1	/	/	12	1	/	/	/	/	/	1	/	/	/	/	/	/	12	/	/	1
	/	/	/	/	/	/	/	/	/	/	/	/	/	1	/		/	/	/	/	1	/	/	1
Bristol Stool Score: (Document in NN if abnormal)				1																				
Cumulative Total OUT:				90				190		1.		280				18				98				166
ulated Maintenance Fluids 24 mL/hr	Total Fi	uids 4,2	mL/k	a/hr Uri	ne Outpu	1.9	mL/kg/h	121	hour ba	lance:	+	21	Total	Fluids 4	.3 mL	Alg/hr U	rine Out	put 1.25	5 mL/kg	hr 12	hour ba	lance:	+14	13
							0.0000		-						_					24	hour be	lance:	+10	
INTRAVENOUS INITIATION: Time Insertion Site Call	halar Qia	e # of J	Marriele	1		Signati	ing.			Other Measurements: (For example: height, abdominal girth, head circumference, photometer, peak flows)						Previous 24 hour balance: - (25								



1100

Mom calls you to the room and is concerned Molly "feels warm" to her. Temp 38.8C. Tylenol 285 mg given po.

Respiratory:

- RR 44, mild use of accessory muscles, subcostal retractions
- O2 saturation is 97% on room air

Cardiovascular:

- HR 156, pulses normal peripherally
- BP 105/72
- Cap refill 2 seconds, remains pale with flushed face

Behavior:

 Patient co-operative but increasing sleepiness noted



Situational Awareness





In NN Record the **time** the Pews escalation process is activated as well as **DAR**

Reassessment: 1120

Respiratory:

- RR-40, A/E BL with scattered wheeze, indrawing remains
- O2 saturations 99 % on 2 LNP

Cardiovascular:

HR: 148, Pulses normal, cap refill 2 seconds, BP 107/77 remains pale, cheeks less flushed

Temp 38.5, given 4 puffs Ventolin

Behavior:

 More interactive during assessment, although slept between assessments

1215

Respiratory:

- RR-38, wheeze resolved, no more indrawing noted
- O2 sats 100% on 2L NP

Cardiovascular:

- HR 138, cap refill 2 seconds, BP 108/67
- Pale, slight facial flush remains

Behavior:

- Asking for juice
- Playing quietly with toys

Temp 37.8

Things to Consider

- Any change from original shift assessment will need to be documented in the Nursing Notes in Data, Action, Response (DAR) format
- Continue to use Sepsis and PRAM tools if used at your agency
- Continue to document medications given on the Medication Administration Record (MAR) specific to your agency
- The PEWS CDST, Using the Flowsheet and Vital Sign Assessment & Documentation guidelines are found on the CHBC website
- Charting to be completed "just in time" at bedside whenever possible- chart the actual time of interventions
- Share questions/concerns with your PEWS site leader, and/or educator/coordinator. They will pass concerns to CHBC Regional Coordinator, who will share with PEWS Project Team.



Do the PEWS tools work? What has research found?

- Nearly 50% decrease in rates of UNSAFE ICU transfers
- Potentially provides advanced time of >11 hours
- Positive directional trends in improved clinical outcomes
- Enhanced multi-disciplinary team work, communication and confidence
- There are **no negative outcomes** reported in the literature related to the use of PEWS

How will we know if PEWS is working?



 Mixed method, pre-post evaluation design: chart reviews, interviews, focus groups and surveys at all phase 1 sites.



What is My Role in Supporting the PEWS Evaluation?

- Regular implementation audits as needed to ensure ongoing quality
- Complete the PEWS Implementation Plan Report (one month post implementation)
- Complete 20 quick flowsheet audits, (or max 20 dependent on # of patients) @: 6 weeks, 3 months, 6 months, 9 months, 12 months and then every quarter post implementation. Send to the coordinator in your Health Authority(HA)

Implementation Plan

Work with your team members to identify:

- ✓ What will be the visual cue for your unit or agency?
- ✓ What will be your daily management plan?
- ✓ How will you ensure nurses are using the PEWS flowsheet correctly?
- How will you encourage your healthcare team to engage patient's and families in the situational awareness factors?
- ✓ Where will you hang the situational awareness posters?
- ✓ Where will you put your supporting resources (Braden Q, falls, pain etc.) ring with the clipboard? resource binders?



Trainer's Next Steps...

- ✓ Track staff completion of online modules
- ✓ Book your in-person site training sessions (2 hours) to ensure you capture all staff who will be using the system
- Continue to finalize the implementation plan for your agency
- Access and review all PEWS resources Seek out additional support as needed
- Educational Resources are all available on the Child Health BC Website

Trainer Resources

Education Support Tools

- Situational Awareness Poster
- Brief Overview of PEWS
- SBAR tool
- PEWS Lanyard Card
- Pediatric Vital Sign Lanyard Card
- PEWS Nursing PowerPoint
- Provincial PEWS Education Lesson Plan
- PEWS Education Session Evaluation
- Physician PowerPoint
- Leadership PowerPoint
- Case Studies
- QI Tools
- Edu-quicks