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



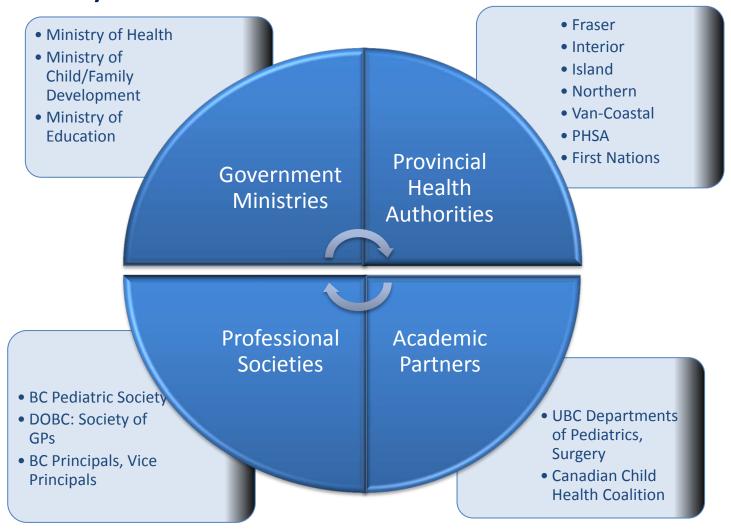


Provincial Approach

- 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

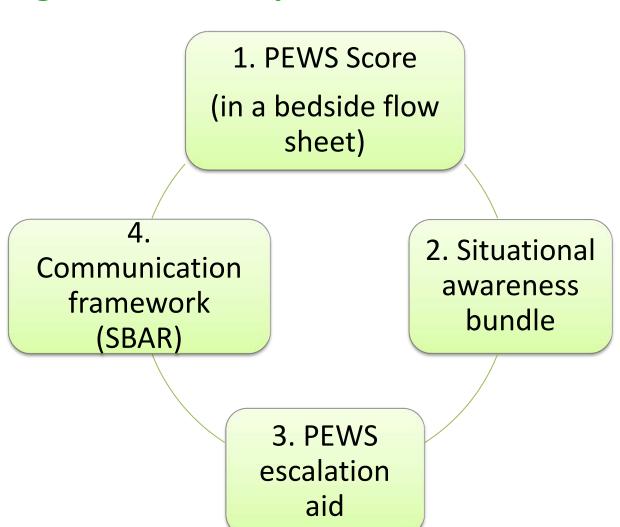
- ✓ *Identify* pediatric patients who are at risk of deterioration
- ✓ Mitigate the risk (through clinical and procedural response)
- ✓ *Escalate* to a higher level of care if mitigation is unsuccessful

... 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
months
 4 - 11
months
 1 - 3
years

 4 - 6
years
 7 - 11
years
 12+ years



Brighton PEWS Scoring Table

		Brightor	n Pediatric Early Warning	Score								
	0	1	2	3	SCORE							
ır	Playing	Sleeping	Irritable	Lethargic &/OR								
Viot	Appropriate			Confused &/OR								
Behaviour				Reduced response to pain								
	Within normal	10 above normal	>20 above normal	5 below normal parameters								
>	parameters	parameters, Using	parameters	with sternal								
to	No recession or tracheal	accessory muscles,	recessing/retractions, tracheal tug	recession/retractions, tracheal								
Respiratory	tug	&/OR		tug or grunting								
Res		30+% FiO2 or 4+	&/OR	&/OR								
		liters/min	40+% FiO2 or 6+liters/min	50% FiO2 or 8+liters/min								
		Dala 8 /OD										
ar	Pink/Normal &/OR	Pale &/OR	Grey &/OR capillary refill 4 seconds	Grey and mottled or capillary refill 5 seconds or above								
Cardiovascular	capillary refill 1-2 seconds	capillary refill 3 seconds		OR								
vas	30001143		Tachycardia of 20 above normal rate.									
dio			normanate.	Tachycardia of 30 above								
Cal				normal rate or bradycardia								
			0.20	minutes bronchodilators &/OR								
Q 20 minutes bronchodilators &/OR persistent vomiting following surgery (2 points each)												
TOTA	L PEWS SCORE											



Flow Sheet & PEWS Score

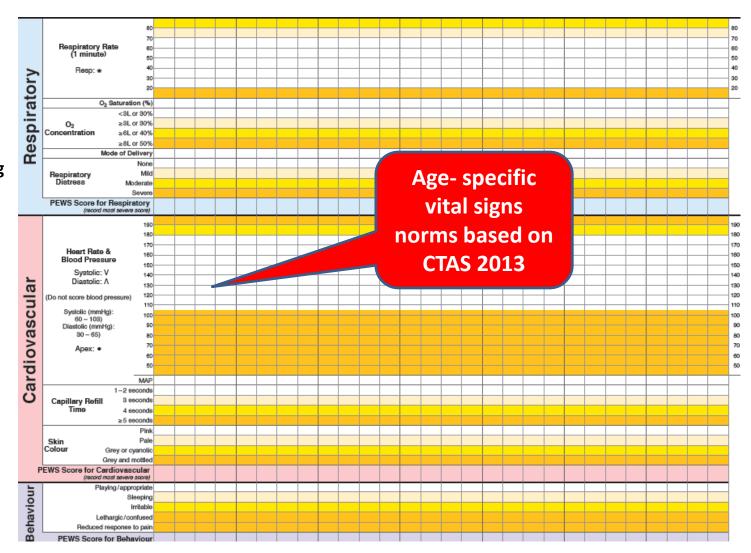
PEWS Scoring Legend

0

1

2

3





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.riskybusiness.com/video.php?video
id=74





3. Escalation Aid



Provincial Pediatric Early Warning System (PEWS) Escalation Aid

		0 – 1	2	3	4 &/or score increases by 2 after interventions	5 – 13 or score of "3" in one category
EARLY WARNING 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 W	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 comi	one or more of the following munication	situational awareness factors Follow PEWS Score 2		



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 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) 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



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

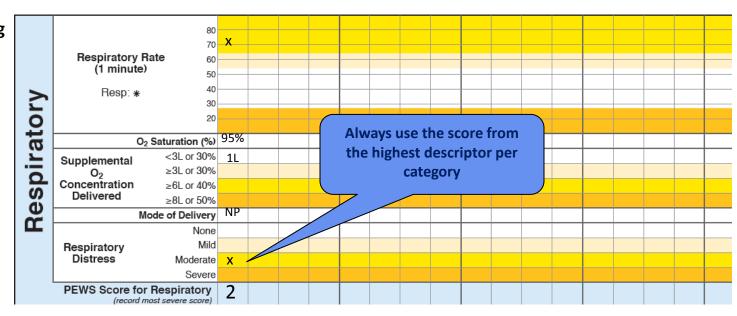
PEWS Scoring Legend

0

1

2

3





How to Score: Cardiovascular

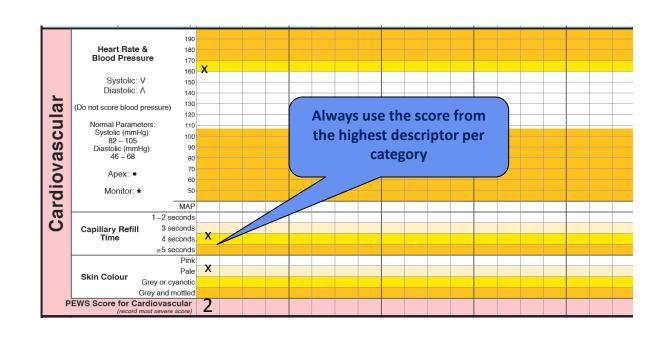
PEWS Scoring Legend

0

1

2

3





How to Score: Behavior

PEWS Scoring Legend

	Playing/appropriate								
Ξ	Sleeping								
.2	Irritable								
à	Lethargic/confused	Х							
\boldsymbol{L}	Reduced response to pain								
Be	PEWS Score for Behaviour (record most severe score)								



How to Calculate Total PEWS Score

PEWS Score for Respiratory (record most severe score)	2									
PEWS Score for Cardiov (record most se		2								
PEWS Score for Behaviour (record most severe score)	3									

S	Persistent vomiting following surgery	0							
EWS	Bronchodilator every 15 minutes	0							
₾	Total PEWS Score C + B + vomiting + bronchodilator)	7	7						
4	• • • • • • • • • • • • • • • • • • • •								



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.



PEWS Score for Respiratory (record most severe score)	2									
PEWS Score for Cardiov (record most se										
PEWS Score for Behaviour (record most severe score)	3									

S	Persistent vomiting following surgery								
¥	Bronchodilator every 15 minutes								
<u> </u>	Total PEWS Score	ያ							
(R +	C + B + vomiting + bronchodilator)	<u> </u>							



- 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



PEWS Score for Respiratory (record most severe score)	2									
PEWS Score for Cardiov (record most se		1								
PEWS Score for Behaviour (record most severe score)	3									

S	Persistent vomiting following surgery								
E	Bronchodilator every 15 minutes								
₫	Total PEWS Score								
(R +	C + B + vomiting + bronchodilator)	U							



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

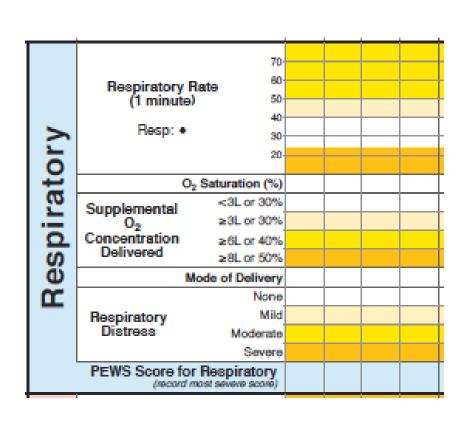
- You go in to check on your patient and do your bedside safety check.
- Pt is asleep.
- Bedside safety check (O2, suction, crib rails up, clear access to bedside)
- IV pumps are in the correct profile
- IV solution D5NS at 15 mL/hr.



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.

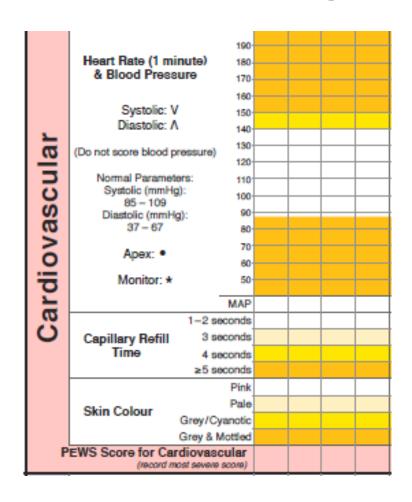
Respiratory Assessment

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



Cardiovascular PEWS Scoring

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



PEWS Scoring Legend:

0	1	2	3



Cardiovascular Assessment

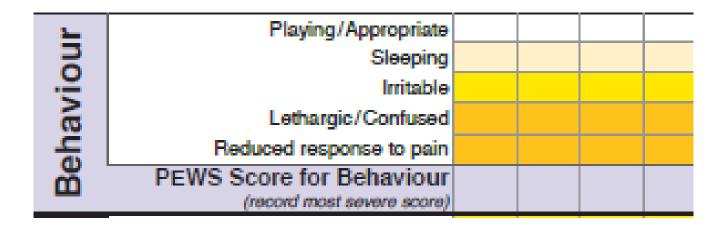
- Warm to touch
- Pulses normal

CARDIOVASCULAR				
CENTRAL COLOUR Pink Pale Mottled Jaundiced Flushed Other	PERIPHER Pink Jaundiced Other	Pale	e 🗌	Mottled
See Nurses' Notes	See Nurse	es' N	otes	
PERIPHERAL TEMPERATURE Warm to: Extremities Other	APICAL PI	_ Irr	egular	
See Nurses' Notes	See Nurse	es' N	otes	
PERIPHERAL PULSES		Normal	Nurses' Notes	
Left radial/ulnar/brachial				
Right radial/ulnar/brachial				
Left femoral/D pedis/P tibialis/po	opliteal			
Right femoral/D pedis/P tibialis/p	popliteal			
See Neurovascular assessment	record			



Behaviour PEWS Scoring

- Awake, quiet
- Co-operative



PEWS Scoring Legend: 0 1 2 3



Persistent Vomiting following Surgery & Bronchodilator

Persistent vomiting following surgery	2
Bronchodilator every 20 minutes	2

PEWS Scoring Legend: 0 1 2 3

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



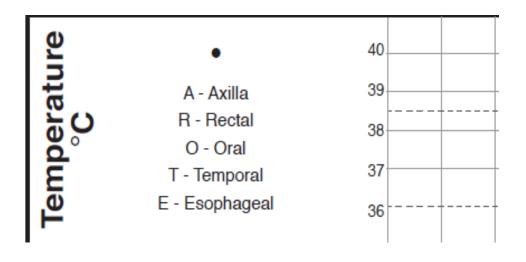
What is Molly's PEWS score? What are your actions?

		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
	Plan				MRP or delegate communicate a plan of care to mitigate contributing factors of deterioration	As per PEWS Score 4
PEDIATRIC 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
	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 com	one or more of the following	situational awareness factors Follow PEWS Score 2		



Temperature

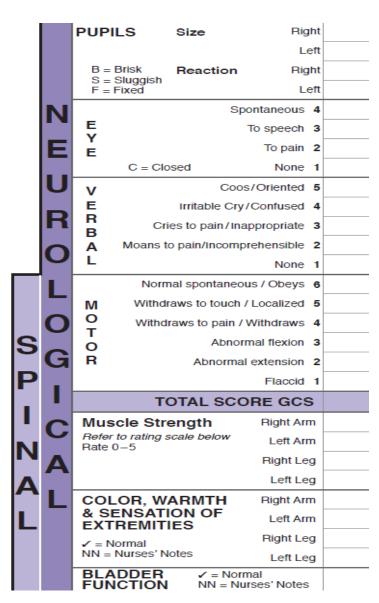
Temp 37.4



Neurological Assessment

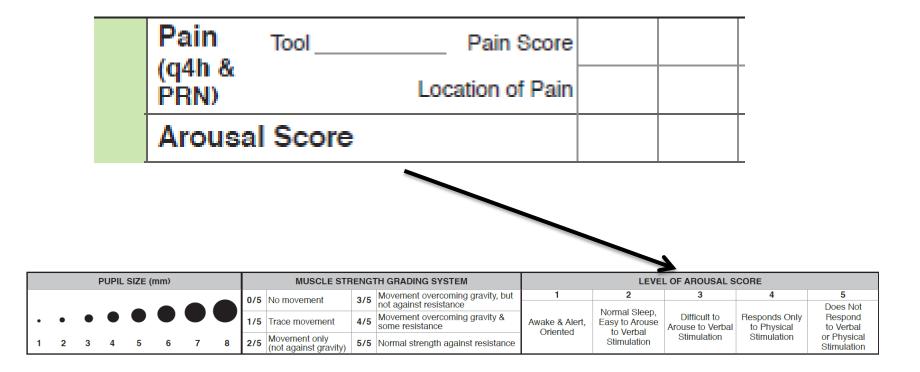
- This is to be done per shift or more frequent as condition or orders determine
- GSC and Pediatric modified GCS will be in resource pack

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



Regular Checks

Pain (see resources)





Regular Checks

-			
		Enteral / Gastric Tube	
	Regular Checks	IV Site to Source: Touch, look & compare q1h	
		Patient Safety Check q1h	
	PRAM	Score (Asthma patients only)	
C			
A			
D		Repositioning qh	
n		Ambulation	
F		Foley Care / Pericare	
-	Routine Nursing	Shower (S) / Bath (B)	
	Care	Mouth care	
	O	rimeter 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 $\sqrt{\ }$ to indicate assessment findings.



Quality Checks & Safety Scores

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/MC	OOD	
☐ Happy ☐ Withdrawn	_	
Flat	Other _	
Mental Hea	Ith Status Ex	am
See Nurses	'Notes	



Personal Safety Precaution

PERSON	IAL SAFETY PRECAUTIONS
None	Suicidal Elopement
Siderai	ls Up
Other	
Violend	e Prevention Care Plan insitu
See Nu	ırses' Notes

Additional Assessment

GI:

Abdomen soft and round, BS x 4

GASTROINTESTINAL		—
ABDOMEN	BOWEL SOUNDS	GASTRIC TUBE N/A
☐ Flat ☐ Rounded ☐ Soft	☐ Present ☐ Absent	☐ Insitu
☐ Firm ☐ Distended ☐ Shiny	Location of bowel sounds:	Location
☐ Tenderness:	☐RUQ ☐LUQ ☐RLQ ☐LLQ	Type
□RUQ □LUQ □RLQ □LLQ	See Nurses' Notes	Length
Guarding		☐ Tube placement verified pH
See Nurses' Notes	NUTRITION	Straight drainage Intermittent suction
	Oral ad lib Breastfeeding NPC	Clamped
BOWELS	Nausea ☐ Vomiting	Suction:
Last bowel movement	Meal Plan	Continuous Intermittent
See stool chart	See Nurses' Notes	See Nurses' Notes
Ostomy site	- FEEDING □ N/A	
Drainage: ☐ Yes ☐ No	Continuous Bolus	
See Nurses' Notes	_	
OGG INGIGGS	☐ Intermittent qh	
	See Nurses' Notes	

Additional Assessment

GU:

has a pull up on, no void

GENITOURINARY	
BLADDER	REPRODUCTIVE \square N/A
Self-voiding Diaper	Menses at present
☐ Catheter: Size ☐ Continuous	See Nurses' Notes
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

	GAIT Stead Not o Ambu See N DEVIC	Steady Unsteady Not observed Ambulatory/Walker Wheelchair See Nurses' Notes
	Other	r
Skin clear Bruising Location See Nurses'	Petechiae	Site: Dry & intact VAC continuous/intermittent at mm Hg
PHOTOTHER Start date Irradiance See Nurses' MUCOUS ME	Type	DRAINAGE N/A Fresh Old Sanguinous Serous Serosanguinous Purulent None
Pink Painful Stomatitis/MSee Nurses	Drooling ucositis Grade	☐ Insitu ☐ Location
	Peripheral edema Skin turgor: Ela	present: Yes No astic Poor y Diaphoretic es: Moist Dry
	Closed	☐ Flat & soft ☐ Sunken

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





Intake/Output Example

Time:	0	08	09	10	11	12	13	14	15	16	П	18	19	20	21	22	23	24	01	02	03	04	05	06
IN-D5NS	24	24 48	24/12	2496	10	130	10	150	160	170	180	150	10/10	1020	10 30	1040	10 50	10 60	10 70	10 10	10 90	10	10	10
	/	/	/		/		/		/	/	/		/				/		/			/	/	1
		/	/,	/	/	/	/		/	/	/	/	/	/	4	/	/	/	/	/	/	/	/	1
PO					/				/	-			4					/		4				K
ale a				/	15	15	15	15/2	15	15	15	15	5	18	15	15	15	15	15	15	IS .	15	15	15
NG-Similar Advance					0	15	15 30	3 3	60	15	10	105	15	30	45	2	15	90	105	3	135	150	11/5	
-med/flush								3	/			6	6			,3		/		96	/	/		3
		/		01												100	/			-		/		1
Cumulative Total IN:		Pa -		96	35	-		198	_	_		30				103	_	20		206				30
Unine		90 10	/	/	110		/		/	/		140	/			30 50		50		/		/	/	40
i			/										/				/	/			/		/	
Strol												/	/	/			/	/			/		/	
			/		/		00		/	10	/		/	dit							20		/	1
Cambo							80 80			140	/			48							28 76		/	
		/	/		/			/	/			/	/				/						/	
			/		/							/							/				/	1
Bristol Stool Score: (Document in NN if abnormal)																								
Cumulative Total OUT:				90				190		1.		380				78				98				16
alculated Maintenance Fluids 24 mL/hr	Total Fi	uids 4.3	mL/kg	g/hr Uri	ne Outpu	1.9	mL/kg/hi	121	nour ba	lance:	+	21	Total	Fluids 4	1,3 mL	Ng/hr U	rine Out	put 1.25	mL/kg	hr 12	hour be	alance:	+14	13
INTRAVENOUS INITIATION:									7 1	Other I	Measur	ements								24	hour be	alance:	+10	64
	heter Siz	e # of	Attempts	1		Signat.	ire			(For e	sample: h	Previous 24 hour balance co. photominal girth, head co. photometer, peak flows)								alance:	-12	5		



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:

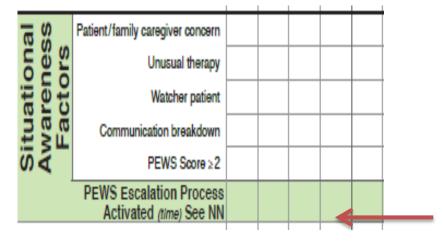
- HR 156, pulses normal peripherally
- BP 105/72
- Cap refill 2 seconds, remains pale with flushed face

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