

Jonathan
Paredes

Acute Renal Failure

Signs & Symptoms

- 1) hemorrhage (heavy bleeding)
- 2) fever
- 3) Rash
- 4) hematuria
- 5) no urine output / high urine output
- 6) swelling around eyes

Pathophysiology

- 1) This pt had a congenital abnormality that left her w/ one kidney
- 2) Pt had sx to remove non-functional kidney.
- 3) Pt contracted COVID that sent her body into shock & putting her functioning kidney into failure.

Diagnostics/Labs

- 1) Creatinine - in Renal failure this will \uparrow
- 2) GFR - will measure how efficiently the kidney is functioning
- 3) BUN
- 4) CRT
- 1) Abdominal X-ray
- 2) Renal ultrasound
- 3) Nuclear medicine study
- * Kidney biopsy was performed that day

Treatment/Medication

- 1) Pt is on dialysis M, W, F
- 2) Rocephin
- 3) Calcitriol capsule
- 4) Renal multivitamin
- 5) Tylenol
- 6) Heparin
- 7) Miralax
- 8) Tyms
- 9) Manitol
- 10) Insulin
- IV Fluids
D5/2NS @ 50ml/hr

Nursing Interventions

- 1) Treat her with diuretics / IV fluids to replace vital nutrient deficiencies.
- 2) Treat other infections associated from contracting COVID & Rocephin.
- 3) Stabilize blood pressure
- 4) Stabilize body Temperature.

Patient Teaching

- 1) Pt has triple lumen IV.
- 2) Pt needs to be reminded not to touch or mess w/ site to prevent infection
- 3) Needs to let the nurse know when she voids or has a bowel movement.
- 4) Pt teaching about S/S of infection & it affecting kidney function

Other

Pt is needing a kidney transplant in the future.
Pt has a good mental attitude about the whole situation.

Priority Nursing Diagnosis

- 1) Excess fluid volume
- 2) Risk for decreased cardiac output
- 3) Risk for imbalanced Nutrition
- 4) Risk for infection

Student Name: Jonathan D. Paredes Unit: PICU Date: 2/17/23

GENERAL APPEARANCE	CARDIOVASCULAR	PSYCHOSOCIAL
Appearance: <input type="checkbox"/> Healthy/Well Nourished <input checked="" type="checkbox"/> Neat/Clean <input type="checkbox"/> Emaciated <input type="checkbox"/> Unkept Developmental age: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Delayed	Pulse: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Irregular <input type="checkbox"/> Strong <input type="checkbox"/> Weak <input type="checkbox"/> Thready <input type="checkbox"/> Murmur <input type="checkbox"/> Other _____ Edema: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Location _____ <input type="checkbox"/> 1+ <input type="checkbox"/> 2+ <input type="checkbox"/> 3+ <input type="checkbox"/> 4+ Capillary Refill: <input type="checkbox"/> < 2 sec <input type="checkbox"/> > 2 sec Pulses: Upper R <u>2+</u> L <u>2+</u> Lower R <u>2+</u> L <u>2+</u> 4+ Bounding 3+ Strong 2+ Weak 1+ Intermittent 0 None	Social Status: <input checked="" type="checkbox"/> Calm/Relaxed <input checked="" type="checkbox"/> Quiet <input checked="" type="checkbox"/> Friendly <input checked="" type="checkbox"/> Cooperative <input type="checkbox"/> Crying <input type="checkbox"/> Uncooperative <input type="checkbox"/> Restless <input type="checkbox"/> Withdrawn <input type="checkbox"/> Hostile/Anxious Social/emotional bonding with family: <input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent
NEUROLOGICAL	ELIMINATION	IV ACCESS
LOC: <input checked="" type="checkbox"/> Alert <input type="checkbox"/> Confused <input type="checkbox"/> Restless <input type="checkbox"/> Sedated <input type="checkbox"/> Unresponsive Oriented to: <input checked="" type="checkbox"/> Person <input checked="" type="checkbox"/> Place <input checked="" type="checkbox"/> Time/Event <input checked="" type="checkbox"/> Appropriate for Age Pupil Response: <input checked="" type="checkbox"/> Equal <input type="checkbox"/> Unequal <input checked="" type="checkbox"/> Reactive to Light <input type="checkbox"/> Size <u>3mm</u> Fontanel: (Pt < 2 years) <input type="checkbox"/> Soft <input type="checkbox"/> Flat <input type="checkbox"/> Bulging <input type="checkbox"/> Sunken <input type="checkbox"/> Closed Extremities: <input checked="" type="checkbox"/> Able to move all extremities <input checked="" type="checkbox"/> Symmetrically <input type="checkbox"/> Asymmetrically Grips: Right <u>5</u> Left <u>5</u> Pushes: Right <u>5</u> Left <u>5</u> S=Strong W=Weak N=None EVD Drain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Level _____ Seizure Precautions: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Urine Appearance: _____ Stool Appearance: <u>WNL</u> <input type="checkbox"/> Diarrhea <input type="checkbox"/> Constipation <input type="checkbox"/> Bloody <input type="checkbox"/> Colostomy <u>(300mL) 1st & (500mL) 2nd</u>	Site: <u>IVJ</u> <input type="checkbox"/> INT <input type="checkbox"/> None <input type="checkbox"/> Central Line Type/Location: <u>Hemodialysis Catheter</u> Appearance: <input checked="" type="checkbox"/> No Redness/Swelling <input type="checkbox"/> Red <input type="checkbox"/> Swollen <input type="checkbox"/> Patent <input type="checkbox"/> Blood return Dressing Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Fluids: <u>Dextrose 5% & NaCl</u> <u>0.45%</u>
RESPIRATORY	GASTROINTESTINAL	SKIN
Respirations: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Irregular <input type="checkbox"/> Retractions (type) _____ <input type="checkbox"/> Labored Breath Sounds: Clear <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Left Crackles <input type="checkbox"/> Right <input type="checkbox"/> Left Wheezes <input type="checkbox"/> Right <input type="checkbox"/> Left Diminished <input type="checkbox"/> Right <input type="checkbox"/> Left Absent <input type="checkbox"/> Right <input type="checkbox"/> Left <input checked="" type="checkbox"/> Room Air <input type="checkbox"/> Oxygen Oxygen Delivery: <input type="checkbox"/> Nasal Cannula: _____ L/min <input type="checkbox"/> BiPap/CPAP: _____ <input type="checkbox"/> Vent: ETT size _____ @ _____ cm <input type="checkbox"/> Other: _____ Trach: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Size _____ Type _____ Obturator at Bedside <input type="checkbox"/> Yes <input type="checkbox"/> No Cough: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Productive <input type="checkbox"/> Nonproductive Secretions: Color _____ Consistency _____ Suction: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Pulse Ox Site _____ Oxygen Saturation: <u>92%</u>	Abdomen: <input checked="" type="checkbox"/> Soft <input type="checkbox"/> Firm <input type="checkbox"/> Flat <input type="checkbox"/> Distended <input type="checkbox"/> Guarded Bowel Sounds: <input checked="" type="checkbox"/> Present X <u>4</u> quads <input checked="" type="checkbox"/> Active <input type="checkbox"/> Hypo <input type="checkbox"/> Hyper <input type="checkbox"/> Absent Nausea: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Vomiting: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Passing Flatus: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Tube: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Location _____ Inserted to _____ cm <input type="checkbox"/> Suction Type: _____	Color: <input type="checkbox"/> Pink <input type="checkbox"/> Flushed <input type="checkbox"/> Jaundiced <input type="checkbox"/> Cyanotic <input type="checkbox"/> Pale <input checked="" type="checkbox"/> Natural for Pt Condition: <input checked="" type="checkbox"/> Warm <input type="checkbox"/> Cool <input type="checkbox"/> Dry <input type="checkbox"/> Diaphoretic Turgor: <input type="checkbox"/> < 5 seconds <input type="checkbox"/> > 5 seconds Skin: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Bruises <input type="checkbox"/> Lacerations <input type="checkbox"/> Tears <input type="checkbox"/> Rash <input type="checkbox"/> Skin Breakdown Location/Description: _____ Mucous Membranes: Color: <u>Pink</u> <input checked="" type="checkbox"/> Moist <input type="checkbox"/> Dry <input type="checkbox"/> Ulceration
	NUTRITIONAL	PAIN
	Diet/Formula: <u>NPO for procedure</u> Amount/Schedule: _____ Chewing/Swallowing difficulties: <input type="checkbox"/> Yes <input type="checkbox"/> No	Scale Used: <input checked="" type="checkbox"/> Numeric <input type="checkbox"/> FLACC <input type="checkbox"/> Faces Location: _____ Type: _____ Pain Score: 0800 <u>0</u> 1200 _____ 1600 _____
	MUSCULOSKELETAL	WOUND/INCISION
	<input type="checkbox"/> Pain <input type="checkbox"/> Joint Stiffness <input type="checkbox"/> Swelling <input type="checkbox"/> Contracted <input type="checkbox"/> Weakness <input type="checkbox"/> Cramping <input type="checkbox"/> Spasms <input type="checkbox"/> Tremors Movement: <input type="checkbox"/> RA <input type="checkbox"/> LA <input type="checkbox"/> RL <input type="checkbox"/> LL <input checked="" type="checkbox"/> All Brace/Appliances: <input type="checkbox"/> None Type: _____	<input checked="" type="checkbox"/> None Type: _____ Location: _____ Description: _____ Dressing: _____
	MOBILITY	TUBES/DRAINS
	<input checked="" type="checkbox"/> Ambulatory <input type="checkbox"/> Crawl <input type="checkbox"/> In Arms <input type="checkbox"/> Ambulatory with assist _____ Assistive Device: <input type="checkbox"/> Crutch <input type="checkbox"/> Walker <input type="checkbox"/> Brace <input type="checkbox"/> Wheelchair <input type="checkbox"/> Bedridden	<input checked="" type="checkbox"/> None <input type="checkbox"/> Drain/Tube Site: _____ Type: _____ Dressing: _____ Suction: _____ Drainage amount: _____ Drainage color: _____

Student Name: Jonathan P. Paredes

Unit: PICU

Date: 2/7/23

INTAKE/OUTPUT													
PO/Enteral Intake	07	08	09	10	11	12	13	14	15	16	17	18	Total
PO Intake													
Intake – PO Meds													
Enteral Tube Feeding													
Enteral Flush													
Free Water													
IV INTAKE	07	08	09	10	11	12	13	14	15	16	17	18	Total
IV Fluid													1,000 mL
IV Meds/Flush													
OUTPUT	07	08	09	10	11	12	13	14	15	16	17	18	Total
Urine													500 mL
# of immeasurable													
Stool													
Urine/Stool mix													
Emesis													
Other													

NPO
for
Kidney
Biopsy

D5 1/2

Children's Hospital Early Warning Score (CHEWS)	
(See CHEWS Scoring and Escalation Algorithm to score each category)	
Behavior/Neuro	Circle the appropriate score for this category: <u>0</u> 1 2 3
Cardiovascular	Circle the appropriate score for this category: <u>0</u> 1 2 3
Respiratory	Circle the appropriate score for this category: <u>0</u> 1 2 3
Staff Concern	1 pt - Concerned
Family Concern	1 pt - Concerned or absent
CHEWS Total Score	
CHEWS Total Score	Total Score (points) <u>0</u>
	Score 0-2 (Green) – Continue routine assessments
	Score 3-4 (Yellow) – Notify charge nurse or LIP, Discuss treatment plan with team, Consider higher level of care, Increase frequency of vital signs/CHEWS/assessments, Document interventions and notifications
	Score 5-11 (Red) – Activate Rapid Response Team or appropriate personnel per unit standard for bedside evaluation, Notify attending physician, Discuss treatment plan with team, Increase frequency of vital signs/CHEWS/assessments, Document interventions and notifications

Student Name: Jonathan Paredes

Unit: _____

Date: _____

CHEWS Scoring and Escalation Algorithm

	0	1	2	3
Behavior/Neuro	- Playing/sleeping appropriately OR - Alert, at patient's baseline	- Sleepy, somnolent when not disturbed	- Irritable, difficult to console OR - Increase in patient's baseline seizure activity	- Lethargic, confused, floppy OR - Reduced response to pain OR - Prolonged or frequent seizures OR - Pupils asymmetrical or sluggish
Cardiovascular	- Skin tone appropriate for patient - Capillary refill ≤ 2 seconds	- Pale OR - Capillary refill 3-4 seconds OR - Mild tachycardia OR - Intermittent ectopy or irregular HR (not new)	- Grey OR - Capillary refill 4-5 seconds OR - Moderate tachycardia	- Grey and mottled OR - Capillary refill > 5 seconds OR - Severe tachycardia OR - New onset bradycardia OR - New onset/increase in ectopy, irregular HR or heart block
Respiratory	- Within normal parameters - No retractions	- Mild tachypnea/increased WOB (flaring, retracting) OR - Up to 40% supplemental oxygen OR - Up to 1L NC $>$ patient's baseline need OR - Mild desaturations $<$ patient's baseline OR - Intermittent apnea self-resolving	- Moderate tachypnea/increased WOB (i.e. flaring, retracting, grunting, use of accessory muscles) OR - 40-60% oxygen via mask OR - 1-2 L NC $>$ patient's baseline need OR - Nebs Q 1-2 hour OR - Moderate desaturations $<$ patient's baseline OR - Apnea requiring repositioning or stimulation	- Severe tachypnea OR - RR $<$ normal for age OR - Severe increased WOB (i.e. head bobbing, paradoxical breathing) OR - $> 60\%$ oxygen via mask OR - > 2 L NC more than patient's baseline need OR - Nebs Q 30 minutes – 1 hour OR - Severe desaturations $<$ patient's baseline OR - Apnea requiring interventions other than repositioning or stimulation
Staff Concern		- Concerned		
Family Concern		- Concerned or absent		

Green = Score 0-2	Yellow = Score 3-4	Red = Score 5-11
- Continue Routine Assessments	- Notify charge nurse or LIP - Discuss treatment plan with team - Consider higher level of care - Increase frequency of vital signs / CHEWS / assessments - Document interventions and notifications	- Activate Rapid Response Team or appropriate personnel per unit standard for bedside evaluation - Notify attending physician - Discuss treatment plan with team - Increase frequency of vital signs / CHEWS / assessments - Document interventions and notifications

A PEDIATRIC CODE CAN BE ACTIVATED AT ANYTIME BY ANYONE
Use SBAR communication

Reference: McLellan, M.C., et al., Validation of the Children's Hospital Early Warning System for Critical Deterioration Recognition, Journal of Pediatric Nursing (2016), <http://dx.doi.org/10.1016/j.pedn.2016.10.005>