Caring for the Student with a Tracheostomy and/or Gastrostomy Tube in the School Setting

Tuesday, January 14, 2025

8:30 am to 4:30 pm

Mt. Yale | Mt. Princeton | Mt. Harvard Conference Rooms Children's Hospital Colorado | Anschutz Medical Campus | Conference and Education Center 2nd floor

OVERVIEW, TARGET AUDIENCE AND LEARNING OUTCOMES

This program is recommended for nurses who care for children with tracheostomy and/or gastrostomy tubes in the school setting. Didactic training will be provided for both tracheostomies and gastrostomies followed by skill stations. Tracheostomy skills stations will include general tracheostomy care, tie/tube changes, suctioning, emergency bag/trach ventilation, ventilator basics, and emergency simulation. Participants will also rotate through gastrostomy skills stations to include accidental dislodgement, tube care, feeding, venting, giving medications, and troubleshooting. After attending this event, participants will report increased knowledge and intent to change practice related to caring for children in the school setting with tracheostomies, ventilator dependence, and gastrostomy tubes. During this event, participants will demonstrate skill competence with tracheostomies, ventilators, and gastrostomy tubes.

OBJECTIVES

- Describe medical indications for needing a tracheostomy or gastrostomy tube.
- Explore the role of delegation and care coordination and the importance of building resource capacity when caring for children with tracheostomies and gastrostomy tubes in the school setting.
- Demonstrate skills related to tracheostomy care, including daily cares of suctioning, cleaning, and tracheostomy tie/tube changes to prevent complications of skin breakdown/infection, plugging and decannulation, emergency ventilation, and the basics of the ventilator operations.
- Demonstrate skills related to gastrostomy tube accidental dislodgement, tube care, feeding, venting, giving medications, and troubleshooting.
- Identify practice changes that nurses can implement in their daily practice when caring for children with a tracheostomy or gastrostomy tubes, including those related to delegation and care coordination.

PROGRAM

8:30am 9:00	Check-in and Light Breakfast Welcome and Instructions	12:00pm	Gastrostomy Care and Stoma Preservation in School
9:15	15 Tracheostomy: It Takes a Team Jessica Dawson, MSN, RN, CPN Meagan Watton, RRT		Catherine Doernbrack, MSN, RN, CPNP-PC Breakout Sessions Break
9:45	Tracheostomy Complications Jessica Dawson, MSN, RN, CPN	2:15 3:15	Breakout Sessions Break
10:05	Care Coordination and Delegation Erin Bluth, BSN, RN	3:30 4:15	Pulling It All Together What Will You Do Differently? Q&A
10:35	Ventilators Meagan Watton, RRT	4:30	Closing and Evaluation
11:30	Lunch (provided)	*Program	subject to change



Children's Hospital Colorado complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex. • ATENCION: si habla español, tiene a su disposición servicios gratuítos de asistencia lingüística. Llame al 1-720-777-1234. CHU V: Neb van noi Tráng Viét, co các dich vu ho for rgón ngữ miền phi dành cho ban. Goi só 1-720-777-1234.

BREAKOUT SESSIONS

Learners will rotate through the following sessions with the color group assigned to them:

BLACK				
Times	Session	Location	Table	
12:30 - 1:00 pm	Emergency Ventilation	Mt. Yale	A1	
1:00 - 1:30	Tracheostomy Care	Mt. Yale	B1	
1:30 - 2:00	Tracheostomy Suctioning	Mt. Yale	C1	
2:15 - 2:45	G-Tube/Stoma	Mt. Yale	D1	
2:45 - 3:15	Vents	Mt. Harvard	E1	
3:30 - 4:15	Putting It All Together	Mt. Yale	F1	

PURPLE				
Times	Session	Location	Table	
12:30 - 1:00 pm	Emergency Ventilation	Mt. Yale	A2	
1:00 - 1:30	Tracheostomy Care	Mt. Yale	B2	
1:30 - 2:00	Tracheostomy Suctioning	Mt. Yale	C2	
2:15 - 2:45	G-Tube/Stoma	Mt. Yale	D2	
2:45 - 3:15	Vents	Mt. Harvard	E1	
3:30 - 4:15	Putting It All Together	Mt. Yale	F2	

BLUE				
Times	Session	Location	Table	
12:30 - 1:00 pm	Emergency Ventilation	Mt. Yale	A3	
1:00 - 1:30	Tracheostomy Care	Mt. Yale	B3	
1:30 - 2:00	Tracheostomy Suctioning	Mt. Yale	C3	
2:15 - 2:45	G-Tube/Stoma	Mt. Yale	D3	
2:45 - 3:15	Vents	Mt. Harvard	E1	
3:30 - 4:15	Putting It All Together	Mt. Yale	F3	

CYAN				
Times	Session	Location	Table	
12:30 - 1:00 pm	Tracheostomy Care	Mt. Yale	B1	
1:00 - 1:30	Tracheostomy Suctioning	Mt. Yale	C1	
1:30 - 2:00	Emergency Ventilation	Mt. Yale	A1	
2:15 - 2:45	G-Tube/Stoma	Mt. Yale	D4	
2:45 - 3:15	Vents	Mt. Harvard	E2	
3:30 - 4:15	Putting It All Together	Mt. Yale	F4	

GREEN				
Times	Session	Location	Table	
12:30 - 1:00 pm	Tracheostomy Care	Mt. Yale	B2	
1:00 - 1:30	Tracheostomy Suctioning	Mt. Yale	C2	
1:30 - 2:00	Emergency Ventilation	Mt. Yale	A2	
2:15 - 2:45	G-Tube/Stoma	Mt. Yale	D5	
2:45 - 3:15	Vents	Mt. Harvard	E2	
3:30 - 4:15	Putting It All Together	Mt. Yale	F5	



Children's Hospital Colorado complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex. • ATENCION: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al 1-720-777-1234. • CHU Ý: Nêu bạn nói Tiếng Việt, có các dịch vụ hỗ trợ ngôn ngữ miễn phí dành cho bạn. Gọi số 1-720-777-1234.

YELLOW				
Times	Session	Location	Table	
12:30 - 1:00 pm	Tracheostomy Care	Mt. Yale	B3	
1:00 - 1:30	Tracheostomy Suctioning	Mt. Yale	C3	
1:30 - 2:00	Emergency Ventilation	Mt. Yale	A3	
2:15 - 2:45	Vents	Mt. Harvard	E1	
2:45 - 3:15	G-Tube/Stoma	Mt. Yale	D1	
3:30 - 4:15	Putting It All Together	Mt. Yale	F6	

ORANGE				
Times	Session	Location	Table	
12:30 - 1:00 pm	Tracheostomy Suctioning	Mt. Yale	C1	
1:00 - 1:30	Emergency Ventilation	Mt. Yale	A1	
1:30 - 2:00	Tracheostomy Care	Mt. Yale	B1	
2:15 - 2:45	Vents	Mt. Harvard	E1	
2:45 - 3:15	G-Tube/Stoma	Mt. Yale	D2	
3:30 - 4:15	Putting It All Together	Mt. Yale	F7	

RED				
Times	Session	Location	Table	
12:30 - 1:00 pm	Tracheostomy Suctioning	Mt. Yale	C2	
1:00 - 1:30	Emergency Ventilation	Mt. Yale	A2	
1:30 - 2:00	Tracheostomy Care	Mt. Yale	B2	
2:15 - 2:45	Vents	Mt. Harvard	E2	
2:45 - 3:15	G-Tube/Stoma	Mt. Yale	D3	
3:30 - 4:15	Putting It All Together	Mt. Yale	F8	

PINK				
Times	Session	Location	Table	
12:30 - 1:00 pm	Tracheostomy Suctioning	Mt. Yale	C3	
1:00 - 1:30	Emergency Ventilation	Mt. Yale	A3	
1:30 - 2:00	Tracheostomy Care	Mt. Yale	B3	
2:15 - 2:45	Vents	Mt. Harvard	E2	
2:45 - 3:15	G-Tube/Stoma	Mt. Yale	D4	
3:30 - 4:15	Putting It All Together	Mt. Yale	F2	

CONTINUING EDUCATION

Registration, attendance, and submission of the evaluation, including a written response to questions related to any change in practice that you may make as a result of learning that took place at this activity, are required for successful completion and receipt of the certificate of attendance. Claim only those hours you attend.

ATTENDANCE

Participants are required to sign-in for this NCPD activity to verify participation in the program. Signing-in: Sign-in opens 30-minutes prior to the event. There are two sign-in options:

Code:

Text to 720-790-4423



Enter at ce.childrenscolorado.org/code



Children's Hospital Colorado complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national orig age, disability, or sex. • ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al 1-720-777-123 CHÚ Ý: Nêu bạn nói Tiếng Việt, có các dịch vụ hỗ trợ ngôn ngữ miền phí dành cho bạn. Gọi số 1-720-777-12

COURSE EVALUATION

To obtain your NCPD certificate, the online evaluation must be completed by midnight, Tuesday, January 28, 2025. After completing the evaluation, you will be promoted to claim your NCPD credits. Any questions or concerns with access should be directed to <u>ce@childrenscolorado.org</u>.

CONTINUING EDUCATION CREDIT

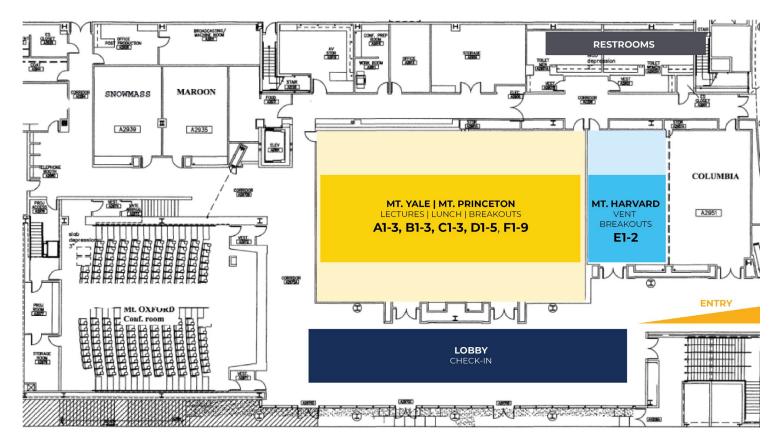
Children's Hospital Colorado is approved with distinction as a provider of nursing continuing professional development by the Colorado Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This educational offering for 5.75 nursing contact hours is provided by Children's Hospital Colorado.

Others: A general certificate of attendance will be provided to all other attendees.

DISCLOSURE FOR CONFLICT OF INTEREST

Planners, faculty, and others in control of content (either individually or as a group) have no relevant financial relationships with ineligible companies.

CONFERENCE CENTER MAP





Children's Hospital Colorado complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex. • ATENCION: si habla español, tiene a su disposición servicios gratuítos de asistencia lingüística. Llame al 1-720-77-1234. CHU Y: Néb Dan noi Triếng Việt, có các dịch vụ hó trợ ngôn ngữ miền phi dành cho ban. Gọi số 1-720-777-1234.

FACULTY AND PLANNING COMMITTEE†

Raina Benton, BSN, RN School Nurse Consultant School Health Program Children's Hospital Colorado

Erin Bluth, BSN, RN† School Nurse Consultant School Health Program Children's Hospital Colorado

Kelly Brown, MPH, BSN, RN School Nurse Consultant |School Health Program Children's Hospital Colorado

Kirsten Christensen, MSN, RN, NPD-BC† Professional Development Specialist Professional Development Children's Hospital Colorado

Brittany Cook, BSN, RN, CPN School Nurse Consultant School Health Program Children's Hospital Colorado

Ray Cuellar† Operations Coordinator Professional Development Children's Hospital Colorado

Jessica Dawson, MS, RN, CPN, ACM-RN† Clinical Specialty Coordinator Ventilator Care Program Breathing Institute

Catherine Doernbrack, MSN, RN, CPNP-PC† Senior Instructor of Pediatrics, University of Colorado Pediatric Nurse Practitioner, Special Care Clinic and Epidermolysis Bullosa Regional Program Liaison to School Nurses with a focus on medically fragile and technology-dependent children Adaptive Care Program Provider Children's Hospital Colorado

Nicole Guider, BSN, RN, NCSN† School Nurse Consultant School Health Program Children's Hospital Colorado

FURTHER INFORMATION

For further information related to the course, contact Ray Cuellar at Children's Hospital Colorado at ray.cuellar@childrenscolorado.org or 720-777-6101.



Elyse Keating, BSN, RN School Nurse Consultant School Health Program Children's Hospital Colorado

Sara Sroka Kihn, MS, RN, NCSN† Associate Clinical Manager School Health Program Children's Hospital Colorado

Laura Pickford, MSN, RN, CPN Clinical Practice Specialist Community Health Children's Hospital Colorado

Megan Pruett, BSN, RN, AE-C School Nurse Consultant School Health Program Children's Hospital Colorado

Andria Redman, BSN, RN, AE-C School Nurse Consultant School Health Program Children's Hospital Colorado

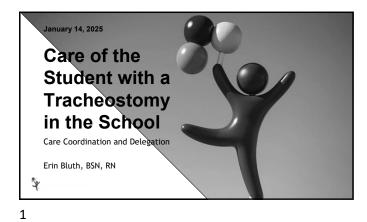
Nicki Shonka, MS, RN, NPD-BC, CPN Clinical Education Outreach Program Director Professional Development Children's Hospital Colorado

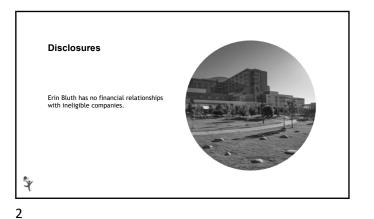
Leah Sisson, BSN, RN School Health Nursing Children's Hospital Colorado

Meagan Watton, RRT† Pulmonary Rehab Respiratory Chronic Care Specialist Children's Hospital Colorado

Julie Wilken, MPH, RN, NCSN† Clinical Manager, School Health Children's Hospital Colorado

Children's Hospital Colorado complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex. * ATENCION: si habla español, tiene a su disposición servicios gratuítos de asistencia lingüística. Llame al 1-720-777-1234. CHU Y: Néb Dan noi Thiến Việt, có các dích vu hồ trợ ngôn ngữ miền phi dành cho ban. Gọi số 1-720-777-1234.









How do we make this happen?

- Gather information:
 Communicate with family
 R0I and orders
 Communicate with school staff and
 health care team
- Develop IHP
- Plan training and delegation
- Models of Care May Include:
 Delegation of School Staff
 Private Duty Nursing Services
 District/Program may hire for
 Student

4

CO Nurse Practice Act CO Department of Education Delegation Considerations	CO Nurse Practice Act The delegating nurse shall be solely responsible for determining the required degree of supervision the delegatee will need, after an evaluation of the appropriate factors which shall include but not be limited to the following: (a) The stability of the condition of the patient; (b) The training and ability of the delegatee; (c) The nature of the nursing task being delegated; and (d) Whether the delegated task has a predictable outcome.	CDE Delegation Considerations Delegation is determined on case-by-case basis by the professional RN Scope of RN stills, knowledge, ability Does task require an order Routine, repetitive nature of the task Is the RN able to provide appropriate and adequate supervision Factor in district policies, protocols, and standards Additional considerations on CDE website	5
			0

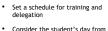
	Emergency Tracheostomy Changes- Yes
Delegation:	Manual Resuscitation with Bag- Yes
What can	Tracheal Suctioning- Yes
we do?	Bulb or Yankauer Suctioning-Yes
	General Tracheostomy Care-Yes (Rarely done during the School Day)
	Ventilator Management-No
Y	



	Delegatior	n – How do v	we begin?
۲°	1	2	3
	Meet	Identify	Plan
	with the	staff	times to
	school	and	delegate
	team	back-up	by task



- Choose one procedure at a time i.e. suctioning during one session and emergency trach change another session
- Review procedure guidelinesSet a schedule for training and



- Consider the student's day from start to finish Establish system for documenting all
- Establish system for documenting all training, delegations, and supervisions



•

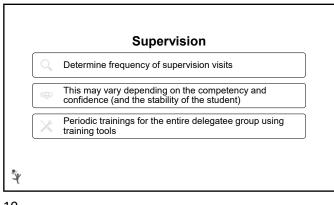
Y

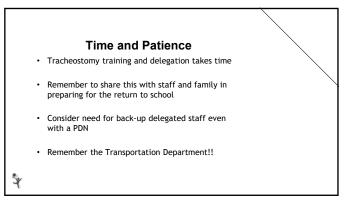
8

More Delegation Tips

- Demonstrate the procedure as many times as needed
- Utilize training tools such as videos and trach training doll
- Consider partnering with family for training supplies and procedures
- When delegatee is ready, return demonstrate
- Remember as the delegating RN you do not have to complete the delegation until you feel the delegatee has demonstrated competency!

Y





11



Standard Precautions and Privacy

- Ensure access to and proper use of PPE, such as gloves and eye protection
- Clean vs sterile procedures .
- Move to separate area when suctioning, ensure student privacy

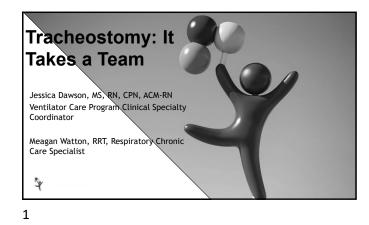
Resources

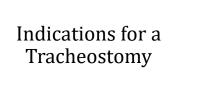
CO Nurse Practice Act: https://dpo.colorado.gov/Nursing/Laws#:-:text=The%20Nurse%20Practice%20Act %20defines.on%20the%20present%20curriculum%20criteria CDE Training and Delegation Resources: https://www.cde.state.co.us/healthandwellness/nurse_delegation

Children's Hospital Colorado - School Nurse Resources: https://www.childrenscolorado.org/community/community-health/schoolhealth/school-nurse-resources/

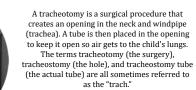
ب 13

Questions???









الاً ع



Indications for a Tracheostomy

- Alterations in upper airway anatomy •Congenital •Acquired •Trauma
- Need for chronic ventilation •Lung disease •Muscle weakness/paralysis •Alteration in neurological function •Alterations in spinal cord function

6

4

Subglottic Stenosis

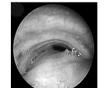
- A narrowing of the larynx usually at the level of the cricoid cartilage.
- Congenital: Congenital subglottic stenosis is usually not diagnosed until the airway is challenged: i.e. respiratory illness.
- · Acquired: Caused by long-term intubation
- For significant subglottic stenosis a tracheostomy or tracheal reconstructive surgery may be indicated.

٠¥

5

Tracheomalacia

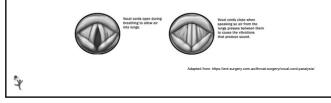
- Tracheomalacia is when the tracheal cartilages collapse during the respiratory cycle.
- Can be more pronounced during illness.
- Diagnosed with a bronchoscopy.
- Severe tracheomalacia may require tracheostomy and sometimes ventilation.



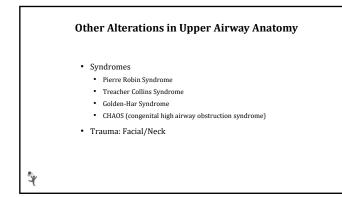
Y

Vocal Cord Paralysis

- Vocal cord dysfunction is usually the consequence of other problems such as surgical trauma to the laryngeal nerve during cardiac surgery, Arnold-Chiari malformation of the brain stem, or prolonged intubation.
- Sometimes dysfunction will resolve spontaneously
- Tracheostomy is sometimes required for bilateral vocal cord paralysis



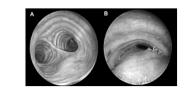
7



Indications for Chronic Ventilation

Bronchomalacia

- Collapsing of the airways below the trachea
- Children with bronchomalacia may need a trach and ventilation



10

Ÿ

Bronchopulmonary Dysplasia (BPD)

- BPD is a chronic lung disease resulting from acute respiratory disease in the neonatal period.
- Risk factors include prematurity, high inspired oxygen concentrations, positive pressure ventilation, and PDA.
- BPD results in bronchiolar and interstitial changes resulting in thickened walls and fibrosis.
- BPD, tracheomalacia, and bronchomalacia are often comorbid

Ŷ

11

Congenital Diaphragmatic Hernia (CDH)

- Abnormal development of the diaphragm during fetal development causes one or more of the abdominal organs to herniate through the diaphragm
- Results in underdevelopment of the affected lung
- Surgical intervention in the first few hours to days of life is required



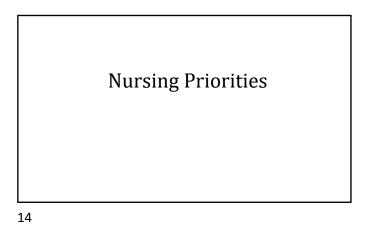
Adapted from

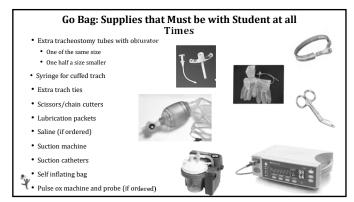
Intestine protruding through hole in diaphragm

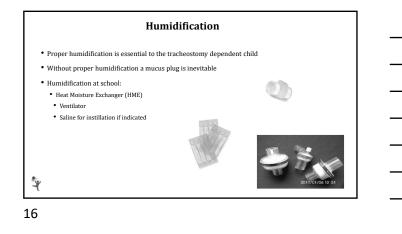


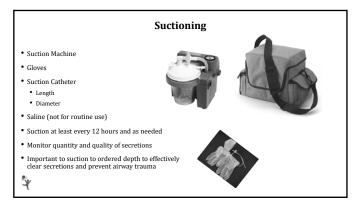
	Other Indications for Chronic Ventilation
	 Muscle weakness/paralysis Duchenne's muscular dystrophy Spinal muscular atrophy (SMA) Guillain-Barre syndrome Transverse myelitis
	 Alterations in neurological functioning Traumatic brain injury Brain tumors
۲	 Alterations in spinal cord functioning Spinal cord injuries Spinal cord tumors









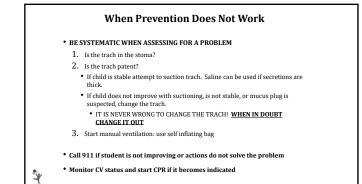


Preventing Emergencies

• Know the child

- History: Why do they have a trach?
- Baseline status
- Equipment: Be familiar with use and maintenance
- Ensure student always has emergency equipment with them (go bag)
- Monitor the child's status
 Awake, alert, trained caregiver 24/7
- Note changes to status
- Secretions
- Oxygenation
- Position of trach
- Provide Routine care
- Suctioning • Proper humidification





Tracheostomy Complications

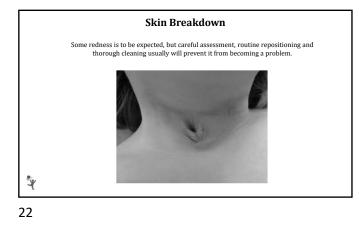
20

Mucus Plugs

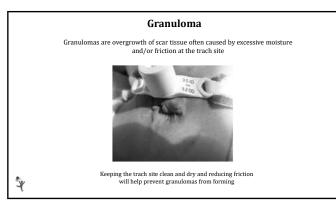
Mucus plugs are secretions that are thick and plug the tracheostomy tube. This can occur from lack of humidity or illness. These can cause the tracheostomy tube to completely occlude leading to a medical emergency.

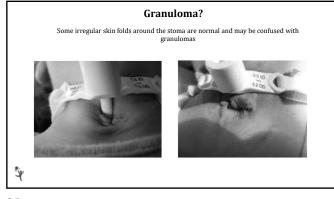
Preventing a plug = <u>HUMIDIFCIATION</u>

Y



<text><text><image><image>





Developmental Support

26

One-way valve (speaking valve)

- One way valve placed on trach or in ventilator circuit that allows inhalation through the trach but closes during exhalation, forcing air out of the mouth and nose
- Helps facilitate speaking and swallowing and may restore physiological PEEP
- May be used as a tool to progress toward decannulation
 <u>Must be used under direct supervision of a trained</u>
- caregiver • Use may be paused or limited during acute illness
- Remove valve to suction or for signs of acute respiratory distress
- Must be removed for sleep
- Y





Tracheostomy Cap

- Placed directly on tracheostomy tube
- Occludes tracheostomy tube to facilitate inhalation and exhalation through mouth and nose
- Often used as a tool to progress toward decannulation
- <u>Must be used under direct supervision of a trained caregiver</u>
- Use may be paused or limited during acute illness
- Remove cap to suction or for signs of acute respiratory distress
- Must be removed for sleep



Ÿ

28

Implications for School Nurses

29

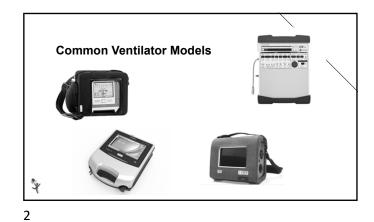
Know your student Why do they have a trach? Do they have the supplies they need at school? Are you familiar with equipment and how to use it? Skill knowledge Following delegation guidelines Ensuring skills are within scope of practice IHP development

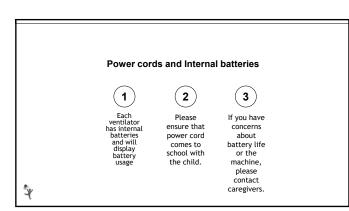
Questions?

31

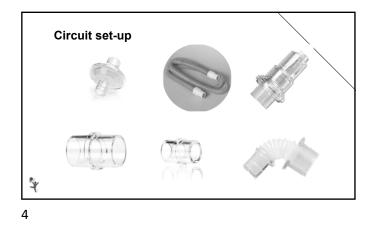
	References
A standardized disch	3., Thrasher, J., Moore, H. M., Baker, J., Abman, S. H., & Glen, J. (2016) arge process decreases length of stay for ventilator-dependent childr i:10.1542/peds.2015-0637
	low to perform a tracheostomy dressing and inner cannula change. (30), 34-36. doi:10.7748/ns.30.30.34.s44
Kozin, E., Straton, J., Medicine, 15(3), 359-3	& Kapo, J. (2012). Tracheostomy care #250. Journal of Palliative 860
	r, A., & Mcintosh, E. (2013). Tracheostomy care and complications in t ritical Care Nurse, 33(5), 18-30. doi:10.4037/ccn2013518
	racheostomy Care. Nursing Critical Care, 9(6), 38-41.
Schreiber, M. (2015). MEDSURG Nursing, 2	Clinical 'how to'. tracheostomy: site care, suctioning, and readiness. 24(2), 121-124.
Sterni, L. M., & Carro New York: Humana P	II, J. L. (2016). Caring for the ventilator dependent child: a clinical guid ress.



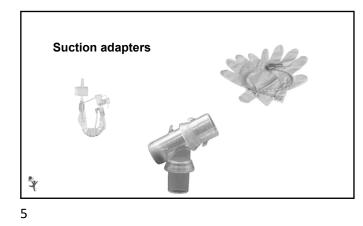


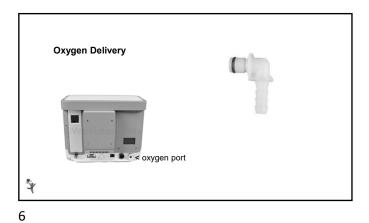




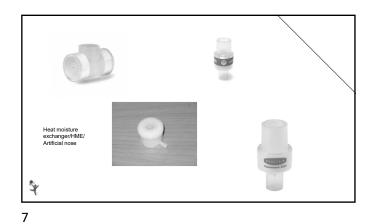




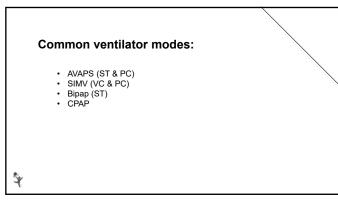








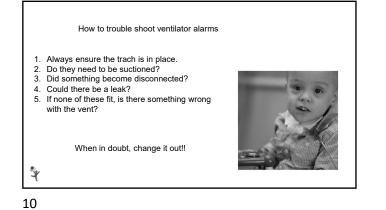




Common ventilator alarms

- Circuit disconnect
- Low circuit leak
 High inspiratory pressure

- High inspiratory pressure
 Low inspiratory pressure
 High Vte
 Low Vte
 High RR
 Low RR
 Check circuit
 Starting on battery power or switching to internal battery



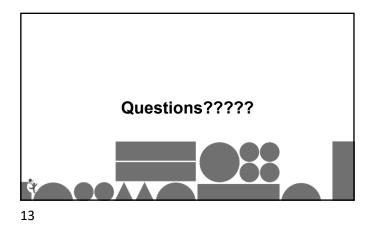
Manual ventilation Is your patient struggling to breathe despite being on the ventilator? Are they turning blue or using accessory muscles? Are they oxygen saturations below normal?

Is the ventilator malfunctioning?

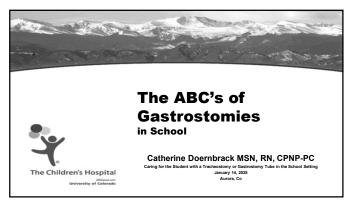
When in doubt, bag it out!!

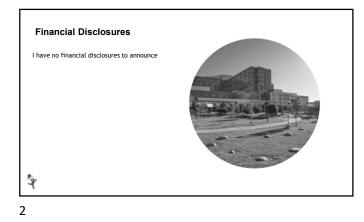
Ľ

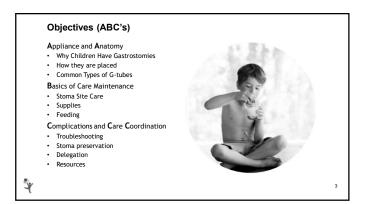












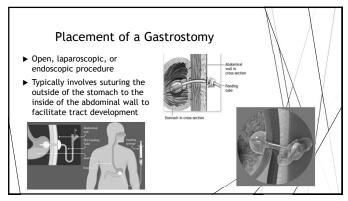
Why Children Have Gastrostomies (G-tubes)

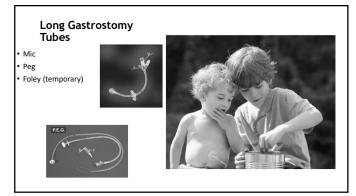
- Gastrostomies provide nutrition and . vasu usuallies provide nutrition and hydration necessary for growth and development when a child does not have the ability to do so safely or adequately by mouth
- Used for long-term feeding supplementation > 3 months duration
- . Children require g-tubes for a variety of reasons – failure to thrive – Aspiration

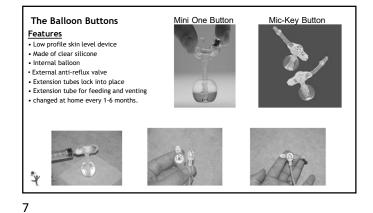
4

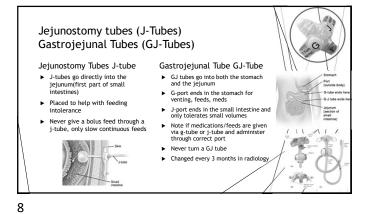
- Aspiration
 anomaly of the GI tract
 fundoplication surgery
 poor oral skills
 medication compliance

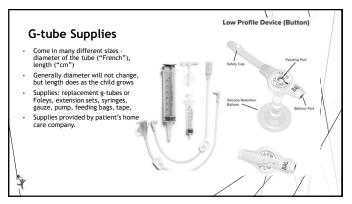


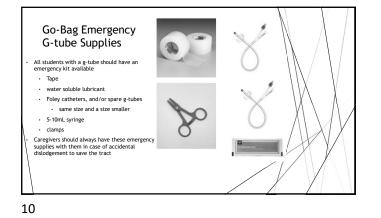


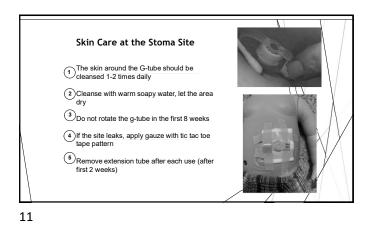


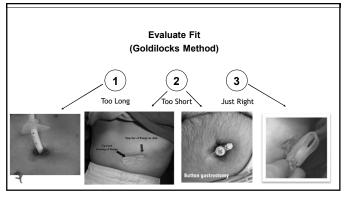




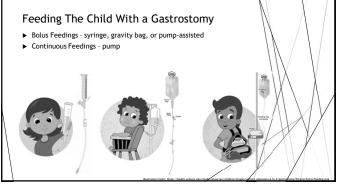










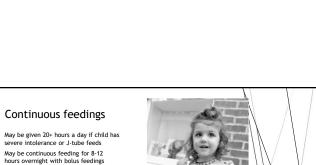


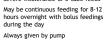
Bolus feedings Syringe Gravity bag Pump assisted • : Method of feeding depends on child's tolerance – i.e. reflux, vomiting, upset stomach In general, bolus feeding should be given over the same time period a child would normally eat (-20min) Prime the tubing Flush with Water The biver the quirage the factor it goes :

The higher the syringe, the faster it goes

ľ

14

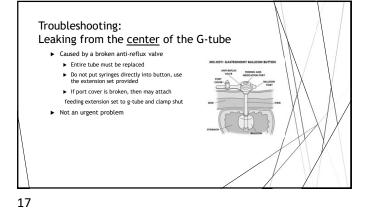






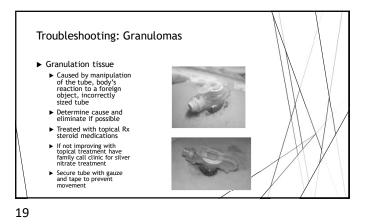


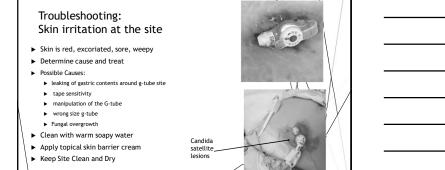
<section-header><list-item><list-item><list-item><list-item><list-item><list-item>



Troubleshooting: Leaking around the G-tube site Causes: Granulation tissue, coughing, constipation, poor G-tube fit, leaking balloon Determine cause and treat if necessary Stabilize tube to prevent excessive movement Use 2x2's under g-tube to help with fit and to absorb drainage, secure with tic tac to tape Have parents check the water in the balloon after school Appointment to evaluate size if unclear

- Protect the skin with barrier cream
- Not an urgent problem





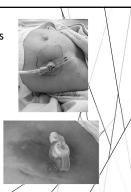
Troubleshooting: Bleeding at G-tube site

Causes

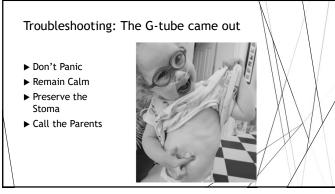
- ▶ Granuloma
- Manipulation of tube
- Tube was dislodged (pulled out)
 Skin breakdown
- Skin breakdown
- small amount of bleeding can be normal and is not an emergency, determine source of bleeding
- ► Apply pressure with gauze or a soft cloth x 5-10 minutes
- ► If bleeding does not stop, send them in

Troubleshooting: G-tube Cellulitis

- Infection of the skin around the tube (cellulitis) is rare
- Skin around G-tube is reddened, firm, and warm to the touch
- ► The redness spreads by the hour
- ► The child may run a fever
- ► The G-tube site is VERY painful May require treatment with oral or IV antibiotics (need same day appointment)







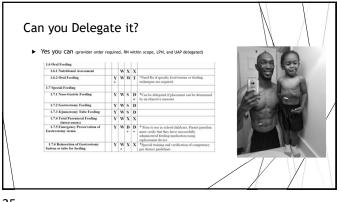
23

Stoma Preservation

- ► If balloon button (Mic-Key, Mini One, etc.)
 - Balloon intact and filled -> deflate balloon, put g-tube back in stoma, tape in place, call parent/emergency contact

 - Balloon broken/empty → put g-tube back in stoma, tape in place, call parent/emergency contact
 If RN is comfortable, district policy allows, and the g-tube was placed > 8 weeks ago, RN may inflate balloon
- If unable to replace button, insert a Foley catheter or a smaller size g-tube, tape in place, and call parent or emergency contact.
- If GJ tube, or Long g-tube use balloon button or Foley for stoma preservation, they will need to go in to the hospital for replacement ►
- Stoma can close within hours if button is left out. \►
- If the stoma narrows or closes, the child will need a painful dilation or another surgery to replace the tube.







Revised Tube Feeding Authorization Form

- Prompt attention is important if a gastrointestinal feeding tube becomes disloged. The tract can narrow or close in less then one (1) hour if it is not preserved. Do not use the G-tube or Foley catheter for feedings or medications until placement is verified by the parent. If stoma < 8 weeks old stoma preservation may only be performed by a RN, and placement must be verified by provider before the tube is used. School nurse or trained/delegated personnel will preserve the stoma
- Sohod nurse or trained/defagated personnel will preserve the stoma: Using a G-ubic une more of disdiged faultion G-ubic (Mic-Key) if available and undamaged. Deflate balloon, lubricate half with water-stolde labricant if available such as Surgitube and insert into garrostomy site. DO NOT WULTET TE BALLON. Secure in place with medical lags. Glubiga G-Dide Cableser: Like Foljev cabateter of the same diameter (French) or one site smaller than patient's of a chick of any garbane site of the same diameter (French) or one site smaller than patient's of a chick of any garbane site has a theory work to like some the same diameter (French) or one site smaller than patient's of a chick of any garbane a theory work like some the same diameter (French) or one site smaller than patient's G-Like a G-Like you chick linese the Foljev cablese? I zinches. Kink the tubing teo that temach contents does not like adv gaint tage to the site in with medical lage?. DN ON PMCLAT THE MLLOON. na Preservation Plan
- Clinic Name
- Phone Number: _____ Provider's Name (Print): Date: Fax Number:
- Provider's Signature:

26

Troubleshooting: Kids that pull out their g-tubes

- Is it possible to determine why is this happening? Determine the Root Cause
- Are there known triggers that can be avoided or minimized?
- Is this behavior related to an issue with the device, pain, itch, or is it a behavior that meets another need? For instance, does this happen when the student is generally frustrated and cannot communicate effectively? Is there an issue with the actual g-tube site?
- Can staff anticipate when this is going to happen and provide the student with a diversional activity that prevents him or her from pulling on the device? •

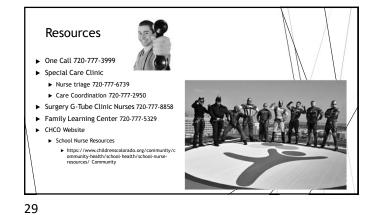
Before applying a physical barrier to prevent pulling, collaboration with the care provider and parent/guardian, in addition to investigating best practices, would need to occur to ensure that any techniques used are safe and appropriate.

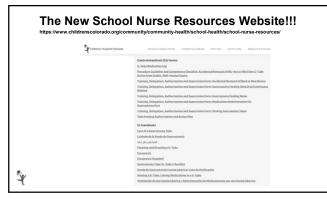


Summary

- Gastrostomy tubes are important tools for longterm feeding supplementation for some children
- Many types of gastrostomy tubes exist skin level buttons most common device in children
- Proper skin care and ability to troubleshoot problems is important
- In the event of dislodgment please preserve the storma to avoid unnecessary expense, pain, trauma, surgeries
- ▶ We are here to support you, use your resources







References

- Delegation Grid CDE website Tube Feeding Authorization Form CDE website ٠
- CDE website Supporting Students with Special Healthcare Needs Guidelines and Procedures for Schools 3rd Edition PDFs Handouts published by CHCO attached to this conference Children's Hospital Colorado YOUTUBE channel has multiple videos on g-tube care





