

Virtual Simulation Participant Guide

Overview

The virtual simulation session is designed to be a training opportunity to build on virtual education sessions delivered through Connected Care (e.g. virtual tracheostomy workshop, virtual invasive ventilation workshop). The virtual simulations will allow participants to apply content learned from previous sessions and build problem-solving skills in caring for children requiring complex medical technology in the home.

Role of the Participant

Participants will observe virtual simulations, reflect on assessments, actions and interventions in the simulations and engage in discussions to highlight key learnings.

General Virtual Etiquette

- Ensure you have access to a computer that has audio and video capabilities.
- Sign in online at least 5 minutes before the session starts.
- Have a pen and paper for taking notes.
- Mute your microphone when you are not speaking.
- If you have internet issues you may need to leave and then sign back in.
- Please be patient if there is an internet delay for the simulation.
- Participate in the debrief after each virtual simulation
- Avoid multitasking when participating in virtual education

Virtual Simulation Guiding Principles

The simulation scenarios that you will be observing and engaging in discussions will demonstrate potential encounters that may occur in a child's home. This simulation activity is a learning experience and is designed to provide opportunities to apply previous learnings and experiences into action. Participants will be divided into two breakout groups using Zoom breakout rooms. In a safe learning environment, participants will have the opportunity to discuss what was observed, what actions to be taken next and reflect on key learnings from each scenario.

Preparing for the Virtual Simulation

Prior to attending, review the following slides, safety checklist and sample orders. These tools will support your participation in discussions during the simulation scenarios. Your facilitator(s) will refer to these throughout the workshop.

PAEDIATRIC TRACHEOSTOMY CARE SAFETY CHECKLIST

START OF SHIFT DISCUSSION WITH FAMILY CAREGIVERS

- Review the child's care plan and discuss any updates with family caregivers
- Establish a system to communicate with family caregivers in case of emergency/support required
- Discuss the use of Connected Care Live with family caregiver

PHYSICAL ASSESSMENT

- General appearance (tone, interactivity, consolability, look/gaze, speech/cry)
- Work of breathing (use of respiratory muscles, retraction, audible abnormal breathing sounds, nostril flaring)
- Circulation (skin colour, skin temperature, capillary refill)
- Tracheostomy stoma site assessment
- Vital signs (e.g. temperature, heart rate, respiratory rate, oxygen saturation)

TRACHEOSTOMY

- Check that tracheostomy ties are secure (one finger width spacing between neck and ties)
- Check that there is an appropriately sized face mask and tracheostomy adapter for the manual ventilation bag

EMERGENCY TRACHEOSTOMY KIT

- Spare tracheostomy tube (same size) with obturator and ties assembled (also check that obturator slides in and out of tracheostomy with ease)
- One size smaller tracheostomy tube with obturator and ties assembled
- Blunt end scissors
- Pre-cut gauze
- Water soluble lubricant
- Normal saline tubes
- Gauze for cleaning stoma site
- Manual suction setup (ensure the appropriate size feeding tube for the same size trach tube and also for the one size down tube)
- Syringe and sterile water tube for inflating a water cuff tracheostomy tube (if child has this type)
- Optional: one size smaller suction catheter in the event the smaller backup tracheostomy tube is used
- Extra inner cannula if the child's tracheostomy tube has one

OXIMETER

- Check that machine is plugged into AC power, charging internal battery
- Ensure oximeter is turned on and probe is connected to child
- Verify oximeter is reading accurately and there are no alarms
- Verify settings against orders
- Ensure extra oximeter supplies available (e.g. probes and stickers)

SUCTION MACHINE

- Check that unit is plugged into AC power and charging
- Ensure back-up suction machine is plugged into AC power/charging and readily available
- Verify that suction pressures are set appropriately
- Ensure enough supplies are available

OTHER

- Perform manual resuscitation bag checks, ensure oxygen tubing is connected and bag is accessible
- Flashlight available
- Check that cell phone is charged
- Ensure contact numbers are available and know who to call and when

OXYGEN (PLEASE REFER TO CHECKLIST PROVIDED BY OXYGEN VENDOR)

- Check that tanks are securely stored (at home and if traveling)
- Ensure regulators are attached properly and turned off if not in use
- Check that tanks are not empty
- Ensure concentrator is located in a well-ventilated area, plugged in and providing flow
- Check that oxygen tubing is connected to the oxygen source (i.e. concentrator, tank)
- Check that no oil, grease or petroleum-based products are on the equipment or the child
- Ensure you have the number to the oxygen vendor (check for a sticker on tank/concentrator)

HUMIDIFICATION

- HME
 - Check that HME is clean and unobstructed
 - Has not been used for more than 24 hours
 - Verify orders for when to apply HME
- Tracheostomy mask via compressor or concentrator
 - Ensure compressor or concentrator is plugged into AC power
 - Verify setup (tubing, mask, water bottle) and ensure components are clean
 - Turn on the compressor or concentrator to ensure the setup is providing humidity
 - Verify orders for providing humidity

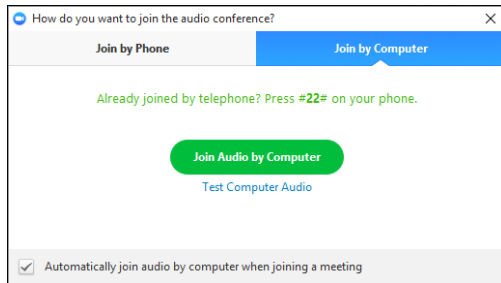
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How to Join a Zoom Meeting

Step 1: Click on the Zoom link that was sent to your email (check your personal, work and junk folders). Follow the prompts to download and run Zoom.

Step 2: Just before entering the meeting you will be prompted to enter a display name. This name is simply to identify you in the meeting and is not connected to your username.

Step 3: You will then be prompted to join audio. Select Join Audio by Computer (*TIP: by selecting the 'Automatically join audio by computer...' option you won't be prompted in the future*)



Step 4: Turn on your video if possible. If you are having issues with the quality of your video, you can turn it off, but turn it on to participate in discussions or to ask a question.

Step 5: Mute your microphone to avoid distracting noises and feedback sounds for the facilitator and other participants. Unmute to speak.

