Heated High Flow Oxygen using OptiFlow™ system

UIHC
Heated High Flow Oxygen Therapy via OptiFlow™ system

Clinical Outcomes

- Deliver heated humidified Oxygen at higher flows
- Reduce RR
- Improve oxygenation
- Reduce CO2
- Improve mucus clearance

How does Optiflow work?

- Heated 31-37° C
- Humidified Gas at high flow rates
- Flow rates from 30-60 L
  - UIHC policy for adults start at 50L/m
- Adjustable FiO2 from 21-100%
- Large Bore Nasal Cannula or Trach Connection
Equipment

Sterile Water

Air/O2 Blender system
- FiO2 21-100%

Flow meter
- 30-60 L

Humidification Chamber

Humidifier

Heated wire circuit

O2 tank for transport

Titration of flow is performed by RT per a UIHC protocol

PC-RC-C05.022
Walking on Optiflow

• To hook up to tank:
  – Place ‘cheater connector’ on the oxygen tank
  – Air (Yellow) goes first
  – Oxygen (Green) goes second

• To hook back up to wall:
  – Oxygen (Green) goes first
  – Air (Yellow) goes second
  – Plug in heater
Safety/Warning Alarms and Troubleshooting

Safety/Warning Alarms

- Running out of Sterile Water
- Low temperature
- Too much water building up in the tube

Troubleshooting

Contact a RT
Prevention of Medical Device-Related Pressure Ulcers

- Check skin integrity under device and around ears every 8 hours
- Apply Mepilex lite for any redness or discomfort noted by patient
Heated High Flow Oxygen using OptiFlow™ system at UIHC

- UIHC currently utilizes Fisher & Paykel’s OptiFlow™ system to deliver Heated High Flow Oxygen Therapy

- This system is approved for use in the following areas:
  - MICU
  - CVICU
  - SNICU
  - PICU
  - BICU
  - ED
  - RSCCU