Beyond Air Tankless Nitric Oxide System

The Beyond Air Tankless Nitric Oxide System represents a whole new era in nitric oxide administration. As opposed to the traditional cylinder based nitric oxide system, the Beyond Air system produces nitric oxide using room air, electrodes, and a special Smart Filter designed to protect against NO2. Beyond the creation of nitric oxide, the setup is very similar to our traditional system, as the Beyond Air system has a main delivery system, a backup system via injector line, and a line for manual ventilation. The system also monitors FiO2, nitric oxide PPM, and NO2 PPM. The Beyond Air System is easy to setup and simple to operate for adult, pediatric, and neonatal populations.

Upon completion of this station, the participant will be able to:

- Discuss the various indications for nitric oxide administration
- Identify the components on the front of the delivery unit, including:
    - Mode selector knob
    - Main cable plug-in receptacle
    - Injector line attachments
    - Inlet / Outlet for manual ventilation
    - Mains Power light
    - NO2 filter release switch
    - Backup status indicator lights
- Perform the pre-use checkout procedure
- Demonstrate the proper setup for delivery via mechanical ventilation, nasal cannula, manual ventilation, and backup delivery via injector line
- Set the nitric oxide dosage according to the desired PPM
- Change the nitric oxide dosage as desired
- Identify time needed until next filter change
- Identify Power Status by checking Mains status and Battery % status
- Demonstrate the calibration and zeroing of the delivery unit
- Change the SmartFilter as needed according to the hours indicated
- Demonstrate troubleshooting of the unit during nitric delivery based on common scenarios
- Identify the purpose and usage of the backup indicator lights on the unit
- Identify the relationship between the backup system flow and dose concentration
- Set the alarms as necessary for FiO2, NO, and NO2 according to standard procedures
- Discuss the effect that moisture may have on the monitoring system