Oxygen: Per Mask or Cannula



OXYGEN: PER MASK OR CANNULA

I. GENERAL INFORMATION

- A. Purpose: To assist respiration by relieving hypoxemia (reduced oxygen tension in arterial blood) and hypoxia (reduced oxygen availability to tissue cells).
- B. Oxygen is a colorless, odorless, tasteless, gaseous element that is a component of earth's atmosphere and is essential for plant and animal respiration.
- B. Oxygen for human consumption is stored in the following ways:
 - 1. Portable or non-portable tanks
 - 2. *Liquid oxygen (easiest to transport but can cause frostbite with contact to skin.
 - 3. Oxygen concentrator (takes room air and purifies it to oxygen).
- C. A mask is usually a clear plastic device that fits snugly over the student's nose, mouth, or tracheostomy used for the delivery of oxygen and to administer aerosol medication.
- D. A cannula is a clear plastic tube with 2 protuding outlets which fit into the student's nose, held in place by an elastic band around the head, used to deliver oxygen.
- E. Oxygen tank must be adequately secured to prevent damage to the valve (IF VALVE DAMAGE OCCURS THE TANK MAY ACT LIKE A "MISSILE"); Tanks with the regulator attached will only <u>leak</u> if the regulator is knocked off. REFER TO SPECIFIC MANUFACTURER'S INSTRUCTIONS THAT MUST BE PROVIDED WITH THE OXYGEN DEVICE THAT IS TO BE USED. It is recommended that oxygen tanks be secured to a stationary object, with a chain around the tank, in a corner area away from potentially movable objects. STORE OXYGEN AWAY FROM DIRECT SUNLIGHT. NO OPEN FLAMES).
- F. While in use, the E-tank should remain upright and secured in its carrier.
- G. ABSOLUTELY NO PETROLEUM OR OILY SUBSTANCES ARE TO BE APPLIED TO VALVES/OUTLETS ON THE OXYGEN-CONTAINING DEVICE; OXYGEN WITH OIL IS EXTREMELY FLAMMABLE. Oxygen itself is non-flammable, but an oxygen-enriched atmosphere will increase the rate of combustion of a flammable material and will lower the kindling temperature.
- H. Post "CAUTION OXYGEN IN USE" and "NO SMOKING, NO OPEN FLAMES" in the areas of the school used by the student (front and back doors of the classroom), and on the school bus near the doors.

- I. A fire extinguisher must be close to use readily. If 1000 or more cubic feet of oxygen is stored, then fire extinguishers are required every 75 feet (in the area of where the oxygen is stored). Verify local regulations with fire department.
- J. All electrical equipment in use near the student must be grounded.
- K. The maintenance of an adequately functioning oxygen source and equipment are the responsibility of the parent/careprovider under the direction of the prescribing physician.
- L. Parent/care-provider will provide the oxygen and necessary equipment for performing procedures at school.
- M. A QUALIFIED PERSON, TRAINED IN OXYGEN THERAPY, MUST BE ON SITE WHENEVER A STUDENT REQUIRING OXYGEN IS AT SCHOOL. THIS INCLUDES TRANSPORTATION AND FIELD TRIPS.

II. PERSONNEL

- A. School Nurse
- B. Designated school personnel under direct or indirect supervision by the school nurse.

*This procedure specifically addresses E-tanks. If other devices are used, refer to manufacture's manual or modification.

Typed: 8/29/05 DR

Reviewed 2005—AAP approval pending

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| Student's Name: | | | DOB: | |
|------------------|---|---|--------------------------|--|
| Ar *(] | quipment nd Supplies Responsibility of rent/care provider) | 1. *Oxygen source a E-tank 2. *Reduction gauge 3. *Flow-meter/gauge 4. *Tubing (may nee | e ge | 5. *Mask or cannula 6. *Humidifier (optional) 7. *Carrier for E-tank 8. *Wrench *For disaster preparedness, consider a 72-hour supply. |
| PROCEDURE | | | | |
| ESSENTIAL STEPS | | | KEY POINTS & PRECAUTIONS | |
| 2. IF | | | CEDURE | |
| 4. | Record E-tank chang checks and any incident | ges, equipment lents on SPHCS log. | Refer to exan Forms". | nple to SPHCS log in "Part Four – |