Oxygen Cylinder Safety

Intended for health workers and all personnel managing medical oxygen

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DO LEARN PROPER MEDICAL CYLINDER SAFETY HANDLING

 Read and follow the cylinder labelling instructions.



DO TRANSPORT CYLINDERS CORRECTLY

- Use personal protective equipment and mechanical assistance when handling cylinders (e.g. trolleys).
- Ensure cylinder (regardless of size) is firmly secured by a strong chain or strap, capable of preventing the cylinder from falling or being knocked over.

 Ensure valve guards or caps are fitted when cylinders are not in use or when

Do not X

DO NOT ALTER, TRANSPORT OR HANDLE CYLINDERS INCORRECTLY

- **Do not** change the labelling or repaint a cylinder.
- **Do not** transport gas cylinders in the passenger compartment of a vehicle.
- Do not handle more than one cylinder at a time, or roll cylinders along the ground, except on carts designed for handling gas cylinder.



DO NOT USE UN-CERTIFIED MEDICAL OXYGEN CYLINDERS

• **Do not** refill cylinders that are not meant for medical oxygen (e.g. cylinders used for other industrial gases) and that have not passed a quality test by a specialist.



being transported for delivery. DO SET UP CYLINDEF USE AT A SAFE DISTA

DO SET UP CYLINDERS FOR CLINICAL USE AT A SAFE DISTANCE FROM THE PATIENT

- Ensure that the gas is only turned on when it is required. Adequate valves, pressure regulators and flowmeters should be placed to control the desired rates.
- Oxygen cylinder valves should be opened smoothly to avoid (adiabatic) compression and heat generation and associated fire risks.
- Ensure adequate ventilation on the wards to reduce the risk of fire.

DO NOT USE OIL, LUBRICANTS OR ALCOHOL-BASED HAND

SANITIZER ON CYLINDER'S FITTINGS



DO STORE CYLINDERS CORRECTLY

DO NOT ATTEMPT TO REPAIR

- Always physically separate full and empty medical cylinders.
- Store all oxygen cylinders in upright position and nesting, with three points of contact.
- Ensure that the storage room is well ventilated, clean and not exposed to extremes of temperature and humidity.
- Keep oxygen sources several metres from ignition sources (for example, acetylene used in maintenance).
- Ensure appropriate fire extinguishers are kept nearby and are regularly inspected.



A CYLINDER OR A VALVE IF LEAKAGE IS DETECTED

 Replacement of damaged components is suggested.



Sources: WHO-UNICEF Technical Specifications and Guidance for oxygen therapy devices. https://www.who.int/medical_devices/publications/tech_specs_oxygen_therapy_devices/en/ GOV.UK Department of Health, Medical gases – Health Technical Memorandum 02-01: Medical gas pipeline systems. Part B: Operational Management. Department of Health libraries, House of Commons library, 2006. https://www.cganet.com/resources/safety-posters/



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