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Hyperbaric Oxygen Therapy (HBOT) Inspection Checklist- Final

Name of the Facility: _____

Date of Inspection: ____/____/____

Ref.	Description	Yes	No	N/A	Remarks
5	STANDARD ONE: REGISTRATION AND LICENSURE PROCEDURES				
5.3.3	Install equipment for the provision of HBOT service.				
5.4	The health facility should develop and maintain the following policies and procedure; that are read and signed off by all staff:				
5.4.1	Emergency action plan				
5.4.2	Fire safety and evacuation				
5.4.3	Incident reporting				
5.4.4	Infection control measures				
5.4.5	Management of Pediatric Patients (if applicable)				
5.4.6	Management of Critically ill patients				
5.4.7	Management of patients with known infections				
5.4.8	Medication management				
5.4.9	Patient education and Informed consent				
5.4.10	Patient acceptance criteria				
5.4.11	Patient health record				
5.4.12	Patient privacy and confidentiality				
5.4.13	Patient discharge/transfer				
5.4.14	Staffing.				
5.6	The health facility shall maintain charter of patients' rights and responsibilities posted at the entrance of the premise in two languages (Arabic and English).				

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5.7	The health facility shall have in place a written plan for monitoring equipment for electrical and mechanical safety, with monthly visual inspections for apparent defects.				
5.8	The health facility shall ensure it has in place adequate lighting and utilities, including temperature controls, water taps, medical gases, sinks and drains, lighting, electrical outlets and communications.				
6	STANDARD TWO: HEALTH FACILITY REQUIREMENTS				
6.1	The HBOT facility shall not be located in a mall or an industrial area.				
6.2	Class A (multiplace chambers) shall be used only in DHA licensed hospitals and standalone specialised centers for HBOT and shall be located on the ground floor.				
6.3	Class B (Monoplace chambers) shall be used in approved DHA licensed health facilities.				
6.5	A HBOT facility shall have an emergency exit with visible signs directing patients in case of an emergency.				
6.7	The specific HBOT service area shall include, but not limited to:				
6.7.1	Reception and waiting area				
6.7.2	Consultation/examination room				
6.7.3	Holding area				
6.7.4	Patient changing facility				
6.7.5	HBOT treatment room				
6.7.6	Gas storage room				
6.7.7	Compressor room				
6.7.8	Gurney/stretchers storage				
6.7.9	Clinical and non-clinical storage				
6.7.10	Clean and dirty utility				
6.7.11	Administrative activities area.				
6.8	HBOT treatment room shall:				

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6.8.2	Have an antistatic, impervious, fire proof, monolithic, joint free and washable flooring, with no carpets or wooden flooring.				
6.8.3	Have window(s) with an outside view.				
6.8.4	Be adequately ventilated with a smoke evacuator.				
6.8.5	Have easy access for wheelchairs.				
6.8.6	Have access to toilets.				
6.8.7	Be provided by approved sprinkler heads equipped with fusible and temperature elements that have ratings as low as possible.				
6.8.8	Have “No smoking” signs visibly displayed.				
6.8.9	Preferably provide a metal detector at the entrance of the HBOT treatment room to ensure that the patient do not carry any form of metal into the chamber.				
6.9	Class A (Multiplace) treatment room requirements:				
6.9.2	A minimum of two (2) exits shall be provided for the treatment room unless a single exit opens directly to a primary evacuation route.				
6.9.3	Doorways of egress shall have a minimum opening of one (1) meter.				
6.9.4	The Class A chamber room should have a minimum clearance of 2.5 meters in front of a chamber entry door, that is intended for gurney/stretchers access.				
6.9.5	There shall be a minimum of 0.9-meter clearance around any part of the chamber system that defines an exit pathway.				
6.9.6	If the chamber control console is immediately adjacent to the chamber, there should be a minimum clearance of 0.9 meter between the control console and any obstruction.				
6.9.7	There should be a minimum clearance of 0.6 meters in a pathway that allows access to valves used in chamber operation.				

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6.9.8	There should be a minimum clearance of 0.6 meters in a pathway that allows access to areas of the chamber that require cleaning or maintenance.				
6.9.9	Entries designed for wheelchairs or wheeled gurneys should have access ramps. A ramp should be a minimum width of 45 inches, a maximum of height of 0.75 meters, have a maximum slope of 1 in 12, and have handrails on both sides. These ramp specifications are not necessary if the slope of the ramp is no steeper than 1 in 20.				
6.9.10	The chamber shall have breathing equipment for all occupants, and an extra spare one.				
6.9.11	All material inside the chamber shall be fire resistant and HBOT environment compatible.				
6.10.	Class B (Monoplace) treatment room requirements:				
6.10.3	Exit doorways of egress shall have a minimum opening of one (1) meter.				
6.10.4	The space required to house Class B chambers and supporting equipment shall not be less than eighteen (18) sq. meters to host one (1) monoplace hyperbaric chamber and patient-transfer gurney.				
6.10.5	There shall be a minimum clearance of 0.9 meters around any part of the chamber system that defines an exit pathway.				
6.10.6	If the chamber control console is integrated into or immediately adjacent to the chamber, there shall be a minimum clearance of 0.9 meters between the control console and any obstruction.				
6.10.7	There shall be a minimum clearance of 0.6 meters in a pathway that allows access to valves or controls used in chamber operation. If the chamber has a patient-loading device, this clearance shall be maintained when the patient loading device is extended out of the chamber.				
6.10.8	Any part of the chamber that must be accessed shall be at least 0.3 meters away from any obstruction, unless the chamber is fitted with casters.				

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6.10.9	There shall be an O2 shut-off valve for each chamber, which is accessible to the chamber operator.				
6.10.10	Any electrical service outlets located within three (3) meters of the Class B chamber entrance shall be located no less than 0.9 meters above floor level.				
6.10.11	Lighting over the Class B chamber shall be incandescent, preferably with dimmer control.				
6.10.12	Fluorescent lighting installed in rooms housing Class B chambers shall not be located directly over the chambers.				
6.10.13	If the room housing Class B chambers has windows, the chambers should be protected from direct exposure to sunlight.				
6.10.14	There shall be screens between chambers to ensure patient privacy.				
6.10.15	There shall be a 0.3 meters clearance at the foot of the chamber for unobstructed gas connection at the foot of the chamber.				
6.11	Class B (Monoplace Chambers), it shall:				
6.11.1	Not be located in direct sunlight or close to a heat source.				
6.11.2	Be easily accessible to the patient and staff.				
6.11.3	Be free of cracks internally or externally.				
6.11.4	Be free of corrosion, damage, dents, gouges or other damage internally and externally.				
6.11.5	Have an atmosphere free of toxic or flammable gases.				
6.11.6	Have alarms for low-pressure gas monitoring panel, which are tested and maintained routinely.				
6.11.7	Be equipped with audible and visual alarms.				
6.11.8	Have a warning sign displaying prohibited material inside the hyperbaric chamber, which shall be posted at the chamber entrance Appendix 3 .				
6.11.9	Have an external breathing air source in case of emergency evacuation from the chamber.				

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6.11.10	Have acrylic windows with certification such as a “U”/a partial “U2” ASME stamp, with PVHO-1 or an equivalent certification.				
6.11.11	Have viewing ports if not completely transparent.				
6.11.12	Have a manual access for the operating controls for pressurization, depressurization, parameter condition monitoring and safety interlocking.				
6.11.13	Have external exhaust termination with the pipe elbow facing down.				
6.11.14	Have a dedicated vent line to release the O2 after treatment.				
6.11.15	Have earth grounding system with a regular documented maintenance.				
6.11.16	Be grounded to a common building (pipe/steel) or true earth ground.				
6.11.17	Have the resistance between the grounded chamber hull and electrical ground not exceeding one (1) Ohm (DO NOT use the building electrical panel or wall outlet ground to ground the chamber).				
6.11.18	Have a quick release access door.				
6.12	Gas cylinder storage room shall				
6.12.1	Be large enough able to store enough (H) cylinders and manifolds for the reserve breathing gases required for chamber operations.				
6.12.2	Have a minimum of six (6) medical O2 tanks.				
6.12.3	Have a minimum of one (1) 400-liter liquid O2 tank with vaporizer.				
6.12.5	Have explosion proof electrical fittings.				
6.12.6	Have an external exhaust ventilation provided outside the building area.				
6.12.7	Have an automatic gas manifold monitored by alarm.				
6.12.8	Maintain an alarm that monitors the high and low gas pressure.				
6.12.10	Have a concrete or tiled flooring.				

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6.12.11	Have a visibly displayed “No smoking” sign in this room.				
6.12.12	Provide a door to the room with door vents for O2 to pass in case of leakage from cylinders.				
6.12.13	Provide access for a truck to refill the O2 in case the health facility uses liquid O2 for the treatment.				
6.13	The health facility shall maintain the following medical equipment and supplies:				
6.13.1	Apparatus to measure blood pressure.				
6.13.2	Electrocardiographic monitoring equipment.				
6.13.3	Resuscitation trolley equipped with relevant resuscitation equipment and apparatus, medical O2 and medications.				
6.13.4	Intravenous (IV) supplies such as syringes, needles, tape, etc.				
6.14	The health facility shall maintain a record of HBOT chamber:				
6.14.1	Installation checklist				
6.14.2	Assessment checklist				
6.14.3	Operational checklist				
6.14.4	Cleaning checklist				
6.14.5	Maintenance log				
6.14.6	Log of use of the chamber.				
11	STANDARD SEVEN: EQUIPMENT AND MAINTAINANCE				
11.3	Inflatable, collapsible or portable chambers shall not be used in any health facility as they are NOT recognised medical devices for hyperbaric oxygen treatment by the FDA and no supporting clinical studies validate their effectiveness.				
12	STANDARD EIGHT: FIRE SAFETY				
12.1	The facility shall exclude flammable material or other sources of ignition from the treatment room by a rigorously enforced “Contraband Policy”.				
12.5	There should be evacuation maps posted in the facility to indicate current locations marked with "You are here" to provide information regarding escape routes, fire exits and fire extinguishers.				

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12.6	All fire exit doors shall be unobstructed and in proper working condition with exit points marked correctly.				
12.8	The facility shall establish a fire safety plan for early detection, confining, extinguishment, rescue, evacuation and alerting the DCD.				
12.9	The facility shall maintain fire extinguishers, smoke alarms, sprinkler system and other fire protection equipment and devices as per the DCD requirements.				
12.10.	Fire extinguishers shall be properly and accessibly located. They must be fixed securely on the wall with safety pins fitted, seals intact, charged and current service record available.				
13	STANDARD NINE: MANAGEMENT OF HBOT PATIENTS DURING A PANDEMIC				
13.1.1	Adopt and implement policies that require effective cleaning after every patient.				

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