Am. H.B. 165
130th General Assembly
(As Passed by the House)

Reps. Roegner, Thompson, Wachtmann, Beck, Hood, Huffman, Scherer, Schuring, Sears, Batchelder

BILL SUMMARY

- Exempts certified hyperbaric technologists from the laws governing the practice of respiratory care.
- Requires that certified hyperbaric technologists administer hyperbaric oxygen therapy under the direct supervision of a physician.

CONTENT AND OPERATION

Overview

The bill exempts certified hyperbaric technologists (CHTs) from the laws governing the practice of respiratory care. Under current law, only a respiratory care professional licensed by the Ohio Respiratory Care Board may administer hyperbaric oxygen therapy. Because CHTs are not licensed by the Respiratory Care Board, they may not legally administer such therapy. The bill allows a CHT to provide hyperbaric oxygen therapy without a Board-issued license but requires that the CHT (1) be certified by the National Board of Diving & Hyperbaric Medical Technology and (2) administer hyperbaric oxygen therapy under the direct supervision of a physician.

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1 R.C. 4761.11(A)(11).
2 R.C. 4761.10.
3 R.C. 4761.01(G) and 4761.11(A)(11).
Hyperbaric oxygen therapy involves breathing pure oxygen in a pressurized room or chamber in an effort to increase the amount of oxygen in blood. Under such conditions, the air pressure is raised to three times higher than normal air pressure, allowing a person's lungs to gather up to three times more oxygen. The blood then carries this oxygen throughout a person's body, stimulating the release of substances called growth factors and stem cells and promoting healing.4

Hyperbaric oxygen therapy is used to treat certain medical conditions, including air or gas embolism, bone infections, burns, carbon monoxide poisoning, crush injuries, decompression sickness, gangrene, radiation injuries, severe anemia, skin grafts, soft tissue infections, and wounds. A patient may receive hyperbaric oxygen therapy in either a single chamber or multi-person room. In a single chamber, the patient lies on a padded table inside a clear plastic tube approximately seven feet in length. In a multi-person room, the patient may sit or lie down. To deliver the oxygen, a lightweight, clear hood or mask may be placed over the patient's face.5

Therapy sessions typically last from one to two hours, with the patient monitored throughout the session. Potential complications associated with hyperbaric oxygen therapy include temporary nearsightedness, middle ear and inner ear injuries, organ damage, and seizures. In addition, because pure oxygen is flammable, there is a risk of fire. To minimize that risk, a patient cannot take any item into the chamber or room that could ignite a fire (such as an electronic device) and must remove hair and wound-care products that are petroleum-based.6

Current regulation of hyperbaric oxygen therapy

Because the federal Food and Drug Administration (FDA) classifies oxygen as a drug, it can only be administered on the order of a physician. Federal law authorizes the FDA to regulate the marketing of hyperbaric chambers as Class II medical devices, thereby requiring valid scientific evidence that the devices are safe and effective for their intended use. Intended use includes specific diseases and conditions the device


6 Mayo Clinic, Hyperbaric oxygen therapy, and National Library of Medicine, Hyperbaric oxygen therapy.
treats. At present, the FDA relies on the Undersea and Hyperbaric Medical Society\(^7\) (UHMS) for guidance on the safety and effectiveness of hyperbaric oxygen therapy for specific diseases and conditions.\(^8\)

The federal Centers for Medicare and Medicaid Services (CMS) and private health insurers also depend upon the advice of UHMS when determining which diseases and conditions are appropriate for reimbursement for hyperbaric oxygen therapy. To date, UHMS has recognized the following diseases and conditions for hyperbaric oxygen therapy: air or gas embolism, carbon monoxide poisoning, gas gangrene, crush injury, decompression sickness, central renal artery occlusion, severe anemia, intracranial abscess, soft tissue infections, osteomyelitis, radiation injury, skin grafts, burn injuries, and wounds.\(^9\) In general, CMS and private insurers will not reimburse the treatment of "off-label" diseases not yet recognized by UHMS.\(^10\) These include Alzheimer’s disease, arthritis, autism, cerebral palsy, chronic fatigue syndrome, fibromyalgia, Lyme disease, migraines, multiple sclerosis, Parkinson’s disease, stroke, tinnitus, and traumatic brain injury.\(^11\)

The FDA also requires that a hyperbaric chamber manufacturer demonstrate that its devices comply with standards relating to the construction and operation of hyperbaric chambers, as set by the American Society of Mechanical Engineers and the National Fire Prevention Association.\(^12\)

\(^7\) UHMS is an international, nonprofit association serving 2,000 physicians, nurses, and scientists in the fields of hyperbaric and dive medicine. See generally <http://membership.uhms.org/?page=About_UHMS>.


Certified hyperbaric technologists

The National Board of Diving & Hyperbaric Medical Technology (NBDHMT), certifies hyperbaric technologists.\(^\text{13}\) Typically, hyperbaric technologists administer hyperbaric oxygen therapy in medical settings. According to NBDHMT, an applicant to become a CHT must be a licensed health professional, such as respiratory therapist, physician assistant, paramedic or other emergency medical technician, registered nurse, nurse practitioner, physician, or nurse aide.

An individual seeking certification as a hyperbaric technologist must meet the following requirements: (1) be at least 18 years of age with a high school diploma or equivalent, (2) have completed a Board-approved hyperbaric medicine introductory training course along with a transcutaneous oxygen monitoring\(^\text{14}\) module, (3) have undergone a clinical internship of 480 hours, including 40 hours under the supervision of a clinical preceptor, and (4) have submitted a registration form that includes evidence of licensure or certification as a medical professional. Then, the individual is eligible to take the CHT certification exam. Once certified, a CHT must earn a minimum of 12 continuing education credits every two years.\(^\text{15}\)

Exemption from the practice of respiratory care

The bill exempts certified hyperbaric technologists from the laws governing the practice of respiratory care.\(^\text{16}\) The Ohio Respiratory Care Board regulates the practice of respiratory care, which includes administering, monitoring, recording the results of, and instructing in the use of medical gases. Therefore, under current law, hyperbaric oxygen therapy must be administered by a licensed respiratory care professional or another licensed health care professional whose scope of practice includes respiratory care services.\(^\text{17}\) Because the Board does not license CHTs, they may not administer hyperbaric oxygen therapy in Ohio.

The bill exempts CHTs from the practice of respiratory care and the Board’s licensure requirements, thereby permitting them to provide hyperbaric oxygen

\(^{13}\) See generally <http://www.nbdhmt.org>.


\(^{16}\) R.C. 4761.11.

\(^{17}\) R.C. 4761.10 and 4761.11.
therapy.\textsuperscript{18} To qualify for the bill's exemption, an individual must be certified by the National Board of Diving & Hyperbaric Medical Technology, be employed as a CHT, and administer hyperbaric oxygen therapy under a physician's direct supervision without representing that the individual is engaged in the practice of respiratory care.\textsuperscript{19}

The bill defines "hyperbaric oxygen therapy" as the administration of pure oxygen in a pressurized room or chamber, and specifies that it does not include ventilator management.

Because the bill exempts CHTs entirely from the practice of respiratory care, CHTs will not be subject to the authority of, or discipline by, the Ohio Respiratory Care Board.

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\textbf{HISTORY}
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ACTION & DATE \\
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Introduced & 05-15-13 \\
Reported, H. Health & Aging & 06-19-13 \\
Passed House (96-1) & 06-25-13 \\
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\textsuperscript{18} R.C. 4761.11(A)(11).

\textsuperscript{19} R.C. 4761.01(G) and 4761.11(A)(11).