



Building Hyperbaric Oxygen Therapy (HBOT) Devices Market Capacity to Treat Diabetic Foot Ulcers

Hyperbaric oxygen therapy (HBOT) has shown promise in healing diabetic foot ulcers more quickly owing to increased oxygen delivery. HBOT involves breathing 100% oxygen intermittently in a pressurized chamber, allowing much higher concentrations of oxygen to enter the bloodstream and tissues than atmospheric air. This boosts the body's natural wound healing processes.

HBOT devices, commonly called hyperbaric chambers, are used to deliver 100% oxygen to patients at increased ambient pressure. There are various chamber designs like monoplace, multiplace and portable/transportable chambers. Monoplace chambers only accommodate one person for treatment, while multiplace chambers can hold two or more people at once. Portable devices allow treatment outside hospitals. HBOT promotes angiogenesis (blood vessel growth), fights infection, reduces inflammation and stimulates collagen deposition which speeds up wound healing. It is especially useful for diabetic wounds which heal slower due to reduced blood flow and oxygen levels at the wound site.

The global Hyperbaric Oxygen Therapy (HBOT) Devices Market is estimated to be valued at USD 3.80 Bn in 2025 and is expected to exhibit a CAGR of 5.3% over the forecast period 2025 to 2031.

Key Takeaways

- Key players operating in the HBOT devices market are Hyperbaric SAC, Environmental Tectonics Corporation, Sechrist Industries Inc., OxyHeal International and Gulf Coast Hyperbarics, Inc.

- Increasing incidence of chronic, non-healing wounds like diabetic foot ulcers is a major driver of [Hyperbaric Oxygen Therapy \(HBOT\) Devices Market](#). According to the International Diabetes Federation, around 537 million adults had diabetes globally in 2021 which is expected to rise to over 643 million by 2030.

- Technological advancements include smaller, portable hyperbaric chambers to enable out-of-hospital treatments. New multiplace chambers integrate patient monitoring systems and oxygen recycling for enhanced safety and efficiency.

Market Trends

- Growing adoption of HBOT to treat cancer and post-surgical conditions like maxillofacial reconstruction is an emerging trend. Several clinical trials show benefits in cancer recovery and reducing complications.
- Telemedicine is allowing remote HBOT supervision via connected digital devices. This expands access in rural areas by lowering costs compared to hospital-based care.

Market Opportunities

- Emerging markets like India, China, Brazil present major opportunities due to increasing healthcare investments and diabetes prevalence. Local production can also reduce device costs.
- Combining HBOT with other treatments like low-level light therapy and hyperbaric oxygen-ozone therapy can yield better clinical outcomes, representing a synergistic opportunity.

Impact of COVID-19 on Hyperbaric Oxygen Therapy (HBOT) Devices Market Growth

The COVID-19 pandemic has impacted the growth of the global HBOT devices market. During the pandemic, the demand for HBOT devices increased significantly as these devices help enhance immunity and speed up healing by increasing the amount of oxygen delivered to tissues. HBOT therapy is being used to improve the condition of COVID-19 patients during and after hospitalization. Several clinical trials are also studying the effectiveness of HBOT in treating COVID-19 symptoms and evaluating its role as an adjuvant therapy.

However, during the initial months of the pandemic, manufacturing and supply chain disruptions negatively impacted market growth. Social distancing measures and lockdowns imposed worldwide restricted the production and distribution of HBOT devices. Hospital resources were also reallocated for critical care of rising COVID-19 cases, hindering the procurement of new HBOT devices. But now manufacturers are ramping up production to meet the rising demand. Hospitals and clinics are also increasing their hyperbaric chambers to utilize HBOT for COVID-19 patients.

Going forward, the market is expected to grow further due to the increased focus on immunity and post-COVID recovery care. More clinical evidence supporting HBOT efficacy in COVID-19 is also stimulating demand. Manufacturers will have to enhance production capabilities and strengthen supply networks to fulfill this demand. Telemedicine can help expand access to HBOT services. Governments and healthcare providers need to support investments to

improve COVID-19 treatment with HBOT and bolster the segment post-pandemic.

HBOT Devices Market Concentration in Geographical Regions

In terms of value, North America holds the largest share of the global HBOT devices market, with the United States accounting for the majority demand. This can be attributed to factors like increased awareness, advanced healthcare infrastructure, rising investment in clinical research, and favorable reimbursement policies supporting HBOT adoption. The presence of major market players in the region has also facilitated technology advancements and market growth.

Europe is the second largest regional market due to the growing acceptance of HBOT in countries like Germany, France, and the UK. Asia Pacific is considered the fastest-growing market for HBOT devices globally. Rising medical tourism, improving access and affordability of advanced treatments, increasing healthcare expenditure, and the presence of developing economies like China and India offer high growth potential in this region. With growing clinical evidence, markets in other developing regions like Latin America and the Middle East & Africa are also expanding at a promising pace.

Get More Insights on [Building Hyperbaric Oxygen Therapy \(HBOT\) Devices Market](#)

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About Author-

Vaagisha brings over three years of expertise as a content editor in the market research domain. Originally a creative writer, she discovered her passion for editing, combining her flair for writing with a meticulous eye for detail. Her ability to craft and refine compelling content makes her an invaluable asset in delivering polished and engaging write-ups.

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