

# HBOX

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<i>Employees</i>	8
<i>Founded</i>	2021

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HBOX Therapies GmbH is developing a platform technology for Hyperbaric Blood OXYgenation. Using an innovative extracorporeal system (similar to dialysis) the blood pressure in a gas exchange module is increased. This allows the O2 level in the blood to be precisely adjusted (up to 20 times the physiological level) for various clinical applications.

The first clinical application is Miniaturized Respiratory Assist (MiRA) for acute lung failure (e.g. due to ARDS, COPD or COVID-19), one of the most common and life-threatening conditions on ICUs. MiRA combines CO2 removal with unrivaled oxygenation performance in a small system, providing an alternative to invasive mechanical ventilation when combined with non-invasive ventilation. With MiRA, patients can be awake and complications and treatment costs are potentially reduced.