

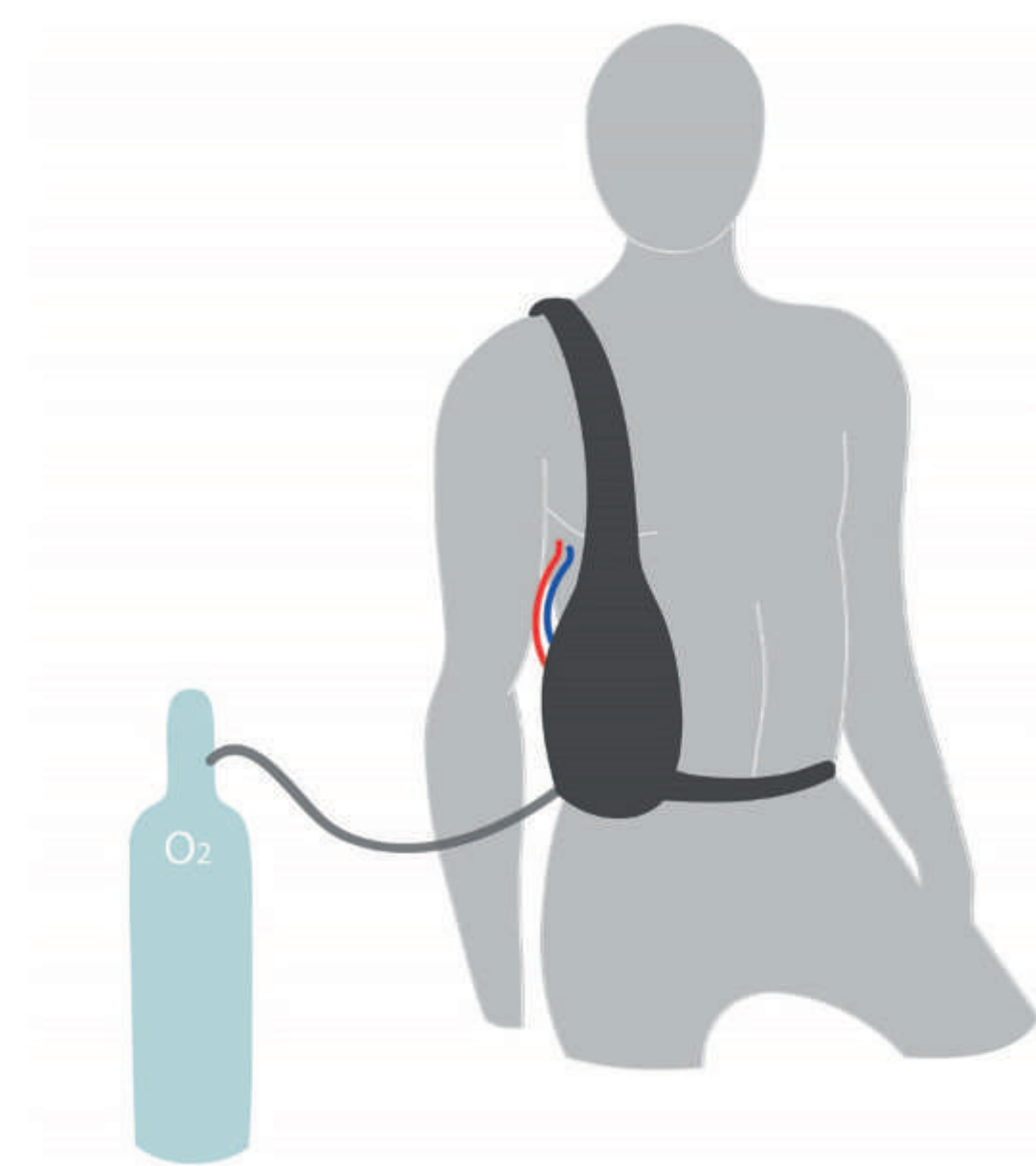
ComRAD-World's first respiratory assist device

Project Type: Innovation by Ideas

Societal challenges: Improve healthcare

The project in a nutshell

ComRAD is the world's first respiratory assist device specifically designed for long term treatment of patients with life threatening lung diseases. The device uses an innovative approach for heart-lung support by mimicking the elasticity of the native lungs. That makes the device more efficient with significantly lower associated risks while also allowing affected patients for the first time to be mobilized again.



Who benefits?

Patients suffering from pulmonary hypertension are often bedbound or severely disabled by their disease. With ComRAD, patients can find back to an active life: Its effectiveness is comparable to what we see in patients on heart assist devices who can restart all kinds of physical activities.

Where are you today and what is next?

Prior to this project, proof-of-concept and safety were shown in several in vitro and acute in vivo trials. Currently, chronic animal experiments are established to increase our knowledge about the mid-to long-term effects of the device.



It is estimated to make ComRAD available to patients suffering from pulmonary hypertension and other severe lung diseases within the next five years. After this year's project, the final product design and implantation strategy is validated, produced and tested.

Project Leader



Other Partners



We are looking
for new
Partners / Expertise



If you wish
to collaborate with
this project,
scan the QR code
and connect with it