

1. General Information

Cohort ID	5012_21
Title (Study Name)	HBO Post-Covid
Principal investigator	Prof.in Freyja-Maria Smolle-Jüttner
Contact information	pm-biobank@medunigraz.at
Funding agency	-----

2. Description

<p>Opportunistic and exploratory pilot study in patients with ongoing or long Covid-19, respectively. Hypothesis: Breaching of chronic inflammatory reaction by cyclic hyperbaric oxygenation (HBO) using 10 sessions (one each working day) at 2,2 ata at a duration of 75 minutes is possible. Besides measurements of oxygen saturation, tissue oxygen tension, spirometry, blood pressure and heart rate, neurological status and subjective assessment by questionnaire and VAS-scale laboratory parameters will be assessed before and after the treatment cycle as well as after 3 months. Samples will be collected from 100 patients at 3 visits (2400 aliquots).</p>
--

3. Details

ICD 10/O codes / Healthy	U09.9 G	
Key words	ongoing Covid-19, long Covid-19, hyperbaric oxygen	
Collection / Cohort size 11/2021	469 aliquots from 44 patients	
Informed Consent (IC)	<input checked="" type="checkbox"/> Broad Biobank IC	
	<input checked="" type="checkbox"/> Specific Study IC	
Status	<input checked="" type="checkbox"/> In progress / compl. date: 05/2025	
	<input type="checkbox"/> Completed	
Inclusion criteria	Age distribution	18 - 90
	Sex distribution (f:m)	50:50
	Others	-----
Earliest access	As of now	
Quality-standards	<input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)	
Associated publications / references	Gorenstein SA; Castellano ML; Slone ES; Gillette B; Liu H; Alsamarraie C; Jacobson AM; Wall SP; Adhikari S; Swartz JL; McMullen JJS; Osorio M; Koziatek CA; Lee DC. Hyperbaric oxygen therapy for COVID-19 patients with respiratory distress: treated cases versus propensity-matched controls. Undersea & Hyperbaric Medicine. 47(3):405-413, 2020 Third Quarter. https://pubmed.ncbi.nlm.nih.gov/32931666/	
	Huang C; Huang L; Xia L; et al. 6-months consequences of COVID-19 in patients discharged from hospital. A cohort study. Lancet 397:220 – 231, 2021. https://pubmed.ncbi.nlm.nih.gov/33428867/	
	Kjellberg A; De Maio A; Lindholm P. Can hyperbaric oxygen safely serve as an anti-inflammatory treatment for COVID-19? Medical Hypotheses. 144:110224, 2020 Nov. https://pubmed.ncbi.nlm.nih.gov/33254531/	

Guo D; Pan S; Wang M; Guo Y. Hyperbaric oxygen therapy may be effective to improve hypoxemia in patients with severe COVID-2019 pneumonia: two case reports. Undersea & Hyperbaric Medicine. 47(2):181-187, 2020 Second Quarter.
<https://pubmed.ncbi.nlm.nih.gov/32574433/>

4. Material available (aliquot size) and storage conditions

Material	<input checked="" type="checkbox"/> Serum (235 µl)	<input checked="" type="checkbox"/> -80°C
-----------------	--	---

Dokument erstellt (tt/mm/yyyy): 25/05/2021	Letzte inhaltliche Aktualisierung (tt/mm/yyyy): 11/02/2022
--	--