Transdermal oxygen delivery to increase systemic oxygen supply for COVID-19 patients having no access to lung ventilators or patients where lung ventilators are not sufficient

Initiative: Außergewöhnliches

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The goal of the project "Transdermal oxygen delivery to increase systemic oxygen supply for COVID-19 patients having no access to lung ventilators or patients where lung ventilators are not sufficient" is to test whether oxygen supply through the skin treated with gels containing oxygen-concentrating fluorocarbons may result in better oxygenation of blood under conditions of poor oxygen absorption through the lungs. A successful proof of principle may open the possibility to supplement part of the oxygen to the body by way of transcutaneous delivery for patients on ventilation due to atypical pneumonia, such as Covid-19 infected patients, for which ventilation with pure oxygen is of little help due to an increase diffusion distance emerging during the inflammation.

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