HAEMO-Laser[®] therapy for the treatment of long COVID symptoms Evaluation of patient documentation sheets

In the period from January 2021 to february 2023, 88 patients who showed symptoms of long COVID were treated with intravenous laser blood irradiation (Haemo-Laser®), among other treatments, during inpatient rehabilitation (duration of stay 3 weeks) or outpatient treatment. Prior to starting Haemo-Laser therapy, a documentation sheet was filled in together with the patients. After completion of Haemo-Laser therapy, the documented symptoms, sleep patterns, changes regarding pain and any recorded laboratory values for CRP and ESR were compared. This evaluation is intended to provide an overview of the possible applications and outcomes in case of symptoms of long COVID.

Number of patients: 88 (62 female / 26 male) Age: 16 – 77 years

49 patients were treated by Haemo-Laser[®] therapy with red laser light (660nm) only and 39 patients were treated by a combined therapy of red laser light (660nm) and blue laser light (405 nm).

Laser device used:	HILARIS HAEMO red/blue, Heltschl GmbH Medizintechnik or HILARIS TL 100 with haemo-laser patient adapter, Heltschl GmbH Medizintechnik			
Power output:	e			
Duration of treatme	nt / session:	45 min. (red), 20-30 min. (blue	e)	
Number of treatments: 3-12		Frequency:	2-3 / week (inpatient rehab.)	

Documented changes / improvements:

All patients showed a comparative SpO2 value increase by 1-4% after Haemo-Laser treatment.

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Symptom	Number of patients	Of which improved after therapy		
Fatigue syndrome	80	67		
Loss of sense of smell / taste	24	23		
Coughing	26	26		
Pain	45	34		
Shortness of breath	43	32		
Other neurological disorders	12	8		
Decreased concentration and	33	24		
memory				
Impaired sleep patterns	60	44		
Muscle weakness	5	3		

Symptoms / improvement:

Changes regarding pain:

The values of the VAS improved in about 90 % of the patients. The improvement ranged from 1 to 5 points on the VAS. Analgesic medication could mostly be reduced or completely discontinued.

Conclusion:

This evaluation of a group of patients shows that intravenous Haemo-Laser therapy offers a useful therapy option without any major adverse effects for symptoms of long COVID.

1-3 / week (outpatient tr.)