



The advantage of TCD in use with COVID-19

With the help of non-invasive transcranial Doppler sonography, the risk of vascular diseases can be identified in COVID-19 patients and a targeted decision about their therapy and treatment can be made. TCD can thus prevent costly and possibly traumatic care for COVID-19 patients in an intensive care unit.

Systemic vascular disease

Due to vascular inflammatory processes, oxygen exchange in the tissue can be impeded and acute respiratory distress syndrome can develop. **Differential diagnostics with TCD** can provide valuable information as to whether treatment with a ventilator is actually effective.

Vascular inflammation (vasculitis)

Vascular inflammation (vasculitis) can lead to changes of narrowing in the blood vessels, as a result of which ischemic strokes occur. An intracranial **routine examination** can diagnose cerebral vasculitis.

Organ damage

If inflammatory processes of the neurovascular system are set in motion, serious organ damage can occur in the further course. **NMA screening** offers the possibility in the early stages of the disease to estimate how difficult the course of the disease could be. This offers the opportunity to prevent serious consequential damage through immediate interventions. In addition, the course of the disease and therapy can be controlled and optimized through NMA screening.

Strokes and heart attacks

In viral coagulation disorders and thrombosis, increased embolism can be observed. **Emboli detection** in patients with mild or even no symptoms can be used to determine whether there is an increased risk of stroke or heart attack in the early stages of the disease.

Significantly increased risk of stroke with PFO

In patients with a PFO (patent foramen ovale), the risk of stroke is increased many times over, since the thrombi occurring in the veins due to the virus can thereby pass into the arterial vascular system. A right-left shunt can be detected with a **PFO test**.



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DWL USA, Inc.
4062 Flying C Rd
Suite 37
Cameron Park
CA 95682
USA

Phone 760-753-7319
sales@dwl.us
www.dwl.us