

Breath-hold Diving study group of Baden-Württemberg

The study group, directed by S. Walterspacher MD and Prof. S. Sorichter MD, focuses on the physiological and pathophysiological aspects of human breath-hold diving. Breath-hold diving is an activity probably as ancient as swimming itself but only recently its limits have been pushed far beyond regular physiological boundaries. The ability to withstand both compression at great depth and the urge to breathe are the two main challenges that have to be overcome in order to reach breath-hold durations over 10 min and depths beyond 200 m.

The study group comprises a multidisciplinary team to further our understanding of the respiratory, cardiovascular and neuronal aspects of breath-hold diving. A special research focus lies on a technique called glossopharyngeal insufflation, where surplus air gets pumped into the lung.

Cooperating partners

- Dept. of Pneumology, University Hospital Freiburg
- German Cancer Research Center, Heidelberg (DKFZ)
- Dept. of Sports Medicine, University Hospital Freiburg
- Dept. of Neurology, University Hospital Freiburg
- Dept. of Sports Medicine, University Hospital Tübingen
- Dept. of Anaesthesiology, University Hospital Ulm

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