

Experience report of the use of MOTomed devices in pneumology and weaning

The Asclepius Specialized Hospitals Munich Gauting – center for pneumology and thoracic surgery – with 300 beds are one of the biggest specialized hospitals for lung diseases in Germany. The spectrum of indications includes all pneumological diseases, whereas the treatment approaches combine conventional medication, interventional therapy and thoracic surgery.

Besides the individual physical therapy, the Motomed devices can be utilized to avoid consequences of immobilization during hospital stay of patients with respiratory and pulmonary diseases, as well for post surgery patients in early stages.

One special application of the Motomed devices at our facility is the use during mechanical ventilation weaning. Here we can refer to great experiences with the Letto 2. Because you can use this device both as a bed cycle and as a crank handle ergometer, it provides a wide range of physical exercise and training spectrum during the whole progress of the weaning process.

There is an effective application of the Letto 2 in every single phase, starting as a passive trainer for fully sedated patients, over interval training, stress-adapted to the individual ventilation situation up to muscle strengthening (high intensity) with spontaneous breathing and performance adapted ventilation, respectively.

Besides that the devices are also used for the individual training therapy before lung transplantation, partly performed under non-invasive ventilation.

Also the psychological effect of the treatment should not be underestimated. The patient can follow on the clearly visible monitor how many meters he covers, this promotes the confidence in the own skills and this positive feedback leads to hope, faith and motivation for the recovery.

Furthermore we were able to observe several times that the bowel function was positively influenced by the use of the bed cycle, hereby a positive influence on the breathing situation could also be achieved in several cases.

The simple operation of the MOTomed devices facilitates the effective application of the therapy devices because they can easily be utilized outside of the physical therapy by the nursing staff.

Thank you for your friendly supply of the MOTomed devices and for the good cooperation with Mr. S. Derrer from the company Reck – Technik GmbH.



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