MR Ergometer

The standard in Ergometry

The Lode MR ergometer is a unique ergometer that can be used during MRI examinations, making it possible for the patient to exercise instead of increasing stress with medicine.

Use of the MR Ergometer

The MR Ergometer of Lode is designed as an alternative for cardiac stress MRI, in which adenosine or dobutamine is used to induce stress. With the MR Ergometer cardiac stress can be induced by natural exercising while performing an MR scan. By using innovative software, the radiologist/cardiologist can control the intensity of the exercise and make changes to decrease discomfort and achieve the test goal, which is maximum heart rate (85%) and acquire images in a timely and safe manner.

In opposition to the usage of Dobutamine and Adenosine, the MR Ergometer is a physiological device in which the patient achieves his/her maximum heart rate from exercise, it can be stopped at any moment with no risk of prolonged side effects.

Statements users

"We have used the same ergometer to perform more than 2000 exercise MRI scans"
Prof Andre La Gerche

"Our radiographers and patients have excellent feedback on the comfort and ease of use"
Assoc. Prof Calvin Chin

Worldwide installed base

Why the MR Ergometer

Applications

The MR Ergometer can be a useful tool to visualize Myocardial Pathology. The exercise CMR is widely used for prognosis on Ischemic incidents to evaluate the viability of Myocardial tissue after Ischemic Attacks, but also to calculate the risk in patients with coronary high-risk groups who are not experiencing any symptoms.

Besides the cardiological application,
can the MR Ergometer also be used in spectroscopy. This application can be used in sports medicine, metabolic disorders or specific muscle diseases.

Conditions

The MR Ergometer is MR conditional, tested by MR:comp GmbH. The MR Ergometers designed by Lode are all safe to use in a 1.5 and 3 Tesla scanner.

Research fields

- Heart and cardiovascular system
- Cardiopulmonary system
- Neurology
- Musculoskeletal
- Metabolism

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