MR Diagnostics Incubator System

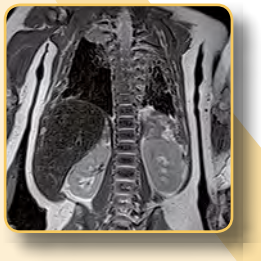
nomag®IC – Be sure it‘s no magic!

LMT
medical systems

nomag®IC with intra-hospital trolley

The technical design of the **nomag**®IC meets the highest neonatal demands with regard to the regulation of temperature and humidity. The device is suitable for patients with a weight of up to approx. 4,500 g and a head circumference of up to approx. 40 cm.

MAGNETIC RESONANCE IMAGING
MEETS NEONATOLOGY



Courtesy: Clinical Hospital Center, Zagreb, Croatia

The growing number of tiny premature babies with a birth weight of < 1,500 g and the increasing group of children with complex defects places the highest demands on radiologists and neonatologists in Neonatal Intensive Care, and means constantly new and additional challenges for medical technology.

Enormous advances have been made in the last few years in magnetic resonance imaging diagnostics, especially in the field of the nervous system for newborns and premature babies. Countless new developments in the field of non-invasive examination methods, such as MR Spectroscopy, diffusion imaging and functional MRI (fMRI) are opening up new and improved diagnostic possibilities for paediatrics.

A sophisticated, highly-innovative system for MR examinations on the tiniest patients is offered by the **MR Diagnostics Incubator System nomag®IC** by **LMT Medical Systems GmbH**.

- No radiation exposure
- Minimal handling of patients
- Time-optimized implementation with maximal security
- Improved, secure diagnostic opportunities

nomag®IC with SpO_2 and neonatal head array coil

THE RANGE


1


2


3


4


5


6


7


8

1 nomag®IC for 1.5/3.0T **2** Trolley for intra-hospital transportation **3** Trolley for transportation in ambulance **4** Neonatal head array coil for 1.5/3.0T **5** Neonatal body array coil for 1.5/3.0T **6** Monitoring (SpO_2, pulse rate) **7** MR-conditional* artificial ventilation babyPAC^{tm} **8** MR-conditional* gas supply

* according to ASTM F2503-08

Prof. Dr. Daniela Prayer
Neuroradiology and Musculoskeletal Radiology Sector, Radiology Department, Vienna General Hospital, Austria

The **nomag**®IC makes it possible to carry out precise, high-quality MR examinations on unstable newborns, whom it would otherwise be impossible to examine. This expands the diagnostic opportunities considerably, and has a positive effect on the entire course of treatment.

The use of the **nomag**®IC makes us non reliant on anaesthesiological support during MRI diagnosis on newborns and premature babies. From a neonatal point of view, it compensates for the often insufficient equipment of MRI equipment manufacturers. The entire MRI process is considerably gentler for children and they are clearly quieter.
During the examination, we need much less sedation and the risk of hypothermia is considerably reduced.

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Courtesy: Scientific Center of Obstetrics Gynecology and Perinatology, Moscow, Russia

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