



# PRESS RELEASE

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## **emeis leverages innovation for healthcare: Introducing a unique robot to assist gait retraining at the Paris-Nord Functional Rehabilitation Centre**

The *emeis* Paris-Nord Functional Rehabilitation Centre (northern Paris) recently acquired a unique robot to assist patients with gait retraining. Powered by LEXO® Tyromotion technology, this all-new robot is designed to offload the patient's body weight. As a result, patients have better control of their care pathway to recover in the best possible conditions. At the cutting-edge of innovation, the Paris-Nord Functional Rehabilitation Centre is positioned to meet tomorrow's healthcare challenges.

Patients cared for at the facility suffer from multiple neurological conditions, including stroke, head trauma, Parkinson's disease and orthopaedic trauma disorders. Impaired balance and a difficulty or inability to walk are subsequent key issues faced by patients at this Functional Rehabilitation Centre in northern Paris. Thanks to LEXO®, patients have an optimal chance of reclaiming their independence.

### **LEXO®, a one-of-a-kind robot intended to offset patient body weight.**

Patients are supported by a device that replicates walking motion. The end-effector gait training system technology actively trains lower limbs (from feet to hips), encouraging patients to walk again. Scientific studies demonstrate the efficacy of robot-assisted technologies on a patient's road to recovery. In practice, during a 20–30-minute session, patients take 800 to 1,500 steps, versus 50 to 100 steps without such technology.

By using this intuitive robot, patients enjoy a host of benefits. For instance, LEXO® can directly or indirectly support lower limbs, accelerating patients' recovery and enhancing their mobility. Its software focuses on patient gait types, as well as their targets and progress, by deploying a near-reality virtual system which factors in slopes, hills, stairs, mud stepping, instances of acceleration and deceleration, as well as obstacle planning. Upon completion of the session, LEXO® issues an assessment in collaboration with the therapist, thereby enabling adaptive rehabilitation.

For healthcare professionals, the electric patient transfer device prevents the risk of musculoskeletal pain. Technology harnessed by robotics and design enables rehabilitators to provide localised patient care, promoting face-to-face contact and forging a bond between the patient and caregiver.

By implementing LEXO® Tyromotion, the Paris-Nord Functional Rehabilitation Centre caters to the extensive needs of patients throughout Greater Paris (Ile-de-France) who do not always have access to such technologies, whether in outpatient or inpatient care.

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### About *emeis*

With 76,000 experts and professionals in healthcare, care, and supporting the most vulnerable among us, *emeis* operates in 20 countries with five core activities: psychiatric clinics, medical care and rehabilitation clinics, nursing homes, home care services, and assisted-living facilities.

Every year, *emeis* welcomes 267,000 residents, patients, and other beneficiaries. *emeis* is committed and taking action to rise to a major challenge facing our civilisation, i.e. the increase in the number of people put in a vulnerable position as a result of accidents, old age, or the rising number of cases of mental illness.

ORPEA S.A., the Group's Parent Company, is 50.2 % owned by Caisse des Dépôts, CNP Assurances, MAIF, and MACSF Epargne Retraite. It is listed on the Euronext Paris stock exchange (ISIN: FR0000184798) and a member of the SBF 120 and CAC Mid 60 indices. Website: [www.emeis.com](http://www.emeis.com)



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