

TRAINM Clinics

Braem Ellen – Neuro Pediatric PT

Schnaphauf Maxime – Head PT

Schiettecatte Edward – Founder and CEO of TRAINM



Story - Nathaniel

General information

- Operational since January 2017
- Outpatient neuro rehab clinic group in Europe
 - Locations: Amsterdam, Antwerp and Ghent
 - For children and adults
 - Team of **medical and paramedical** professionals (50)



ANTWERP (2017)



GHENT (2022)



AMSTERDAM (2024)



Medical Team – doctors

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neuro rehab clinic



**Prof. Dr. Steven Laureys,
MD, PhD – Chief Medical
Officer**

Neurologist



**Prof. Dr. Paul Boon, MD, PhD
– Chief Scientific Officer**

Neurologist



**Prof. Dr. Jean-Baptiste
Belge, MD, PhD**

Psychiatrist



**Prof. Dr. Jean-Pierre Van
Buyten, MD, PhD**

Pain Management

Pain management doctor



COLLABORATION AND RESEARCH PROGRAMS

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FIRST “CENTER OF EXCELLENCE” WORLDWIDE

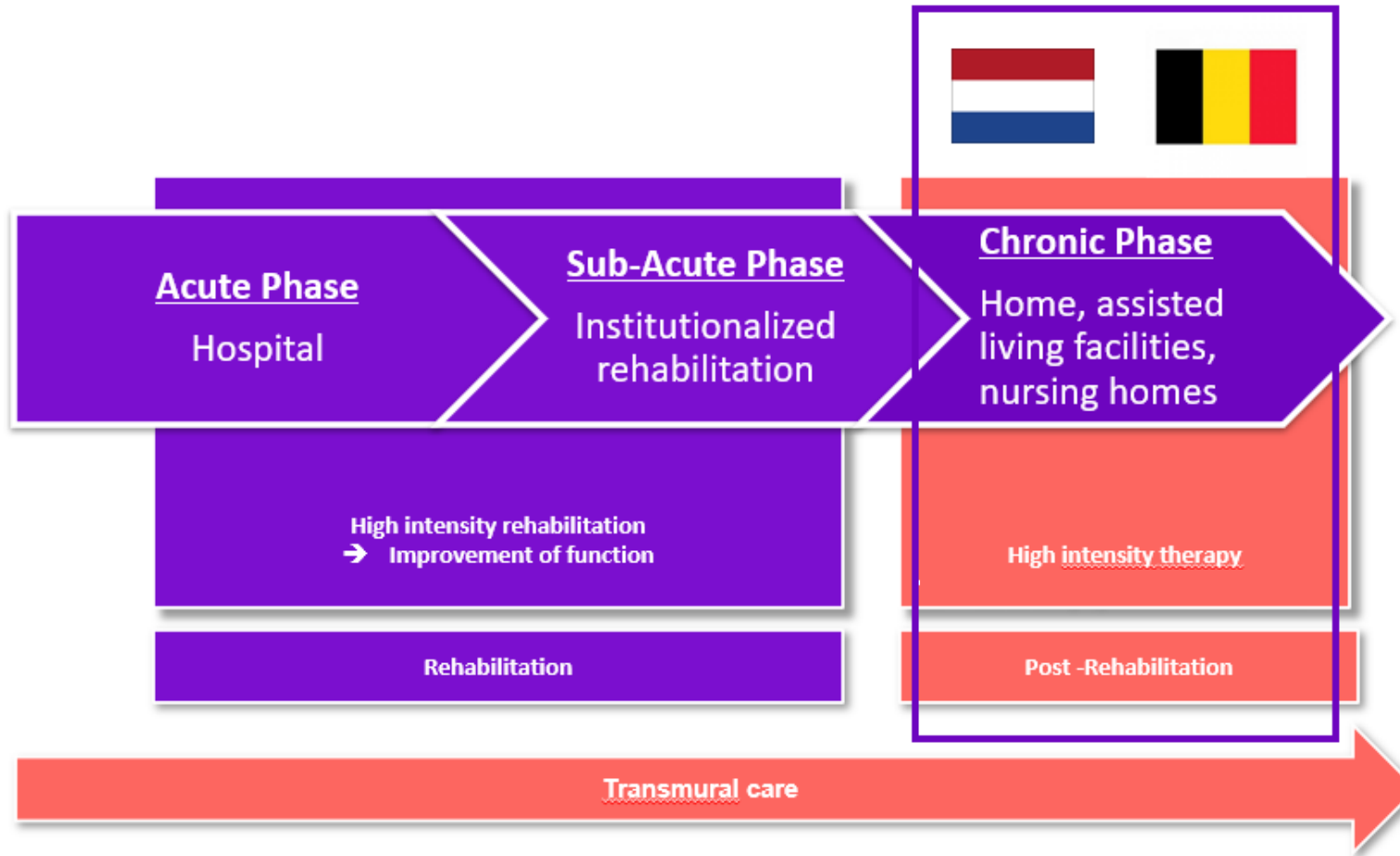




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Position of TRAINM in Belgian Healthcare system



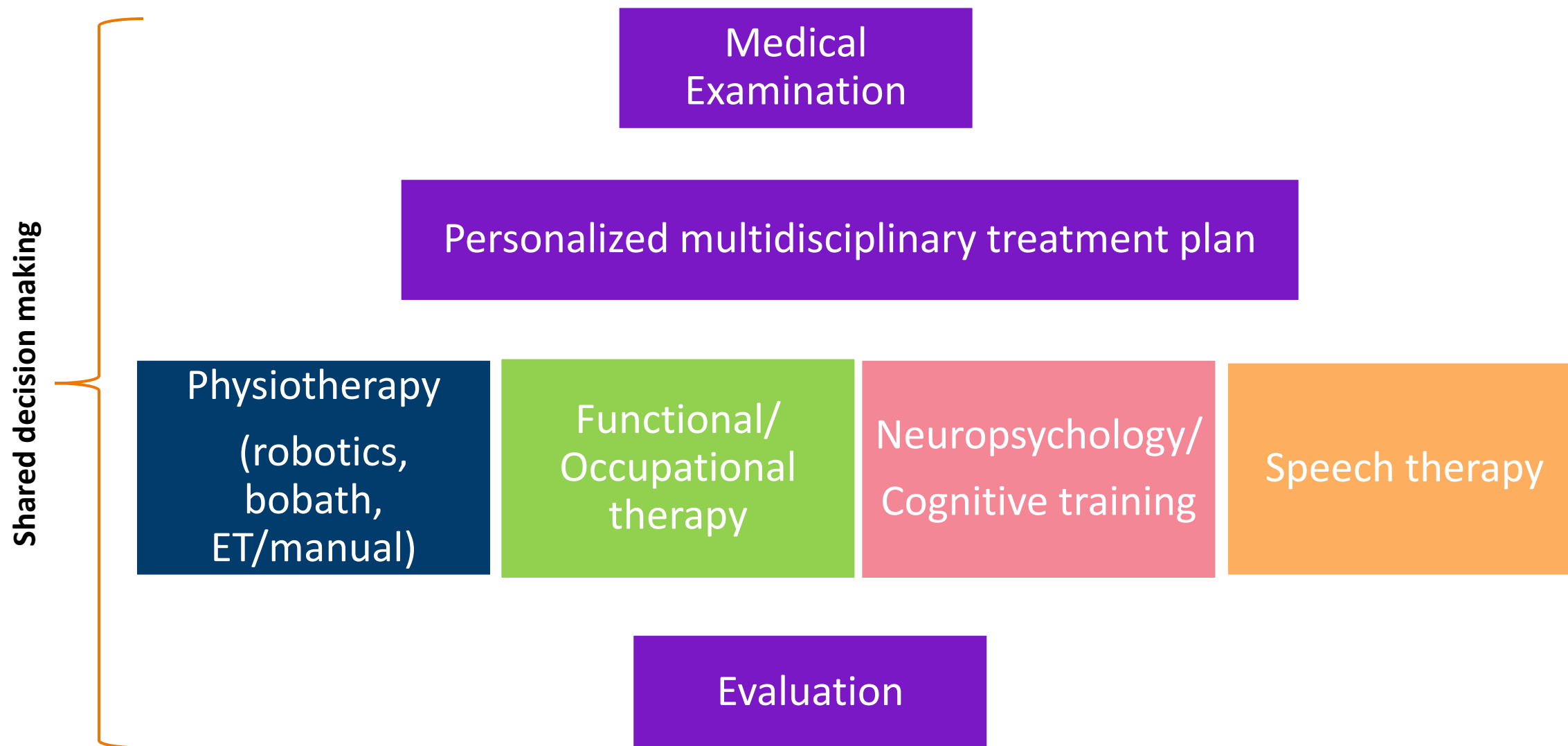
To continuously improve the functional recoveries of neurological patients with

- **personalized interdisciplinary** medical specialist (iMSR) rehab therapies, using **scientifically proven** therapies and technologies by highly-skilled therapists;
- all therapies based on the **principle of neuroplasticity (recovery-based vs task-based and principles of motor learning**
- continuous **evaluations**, data analysis and information communication.

Neurological disorders (start on 3y)

- Cerebral palsy (CP) incl. gene mutations and syndromes
- Traumatic brain injury (TBI)
- Spinal cord injury (SCI), Spina Bifida
- Stroke (CVA)
- Neurodegenerative diseases (FA)
- Muscular dystrophies (Duchenne)
- Disorders of consciousness (MCS)
- Multiple sclerosis (MS)
- Parkinson's disease (PD)
- Motor neuron diseases (ALS)
- Locked-in syndrome (LIS)

Treatment trajectory



ROBOTICS

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GAIT TRAINING:

G-EO, LOKOMAT,
RYSEN, C-MILL



ARM AND SHOULDER:

INMOTION, ARMEO,
MYRO, DIEGO

FINGER, HAND, ARM:

PABLO, AMADEO, IVS3,
REApplan



FUNCTIONAL TRAINING:

BALANCE, TRUNK
CONTROL TRAINING



Upper limb rehabilitation

Motor function

- Gross and fine
- (Non) Weight supported
- (Non) actuated
- Whole chain integration
- Combination with conventional material/techniques

Gamification

- Motivation
- External focus
- Fun factor

Individualized

- Goals: shared decision
- Functionality
- Quality of movement
- 30 – 60 minutes



BRAINM clinics

Neuromodulation in pediatric
rehabilitation – Something for
the future?



Technologies

- ▶ tDCS – Transcranial Direct Current Stimulation
- ▶ rTMS – Repetitive Transcranial Magnetic Stimulation
- ▶ Deep TMS – Deep Transcranial Magnetic Stimulation
- ▶ TPS – Transcranial Pulse Stimulation

Indications

- ▶ Major depressive disorder (MDD)
- ▶ Post-traumatic stress disorder (PTSD)
- ▶ Obsessive compulsive disorder (OCD)
- ▶ Anxiety disorder
- ▶ Bipolar disorder
- ▶ Schizophrenia (negative symptoms)
- ▶ Nicotine addiction
- ▶ Alzheimer's
- ▶ Chronic neuropathic pain
- ▶ Neurological indications
 - ▶ Autism
 - ▶ MS
 - ▶ Parkinson's
 - ▶ Stroke



Off-label

- ▶ ADD/ADHD
- ▶ Burnout
- ▶ Chronic fatigue
- ▶ Migraine
- ▶ Concussion
- ▶ Fibromyalgia
- ▶ Whiplash
- ▶ Tinnitus

Thank you!
Questions?