Federal State Budgetary Institution "Novokuznetsk Scientific and Practical Centre for Medical and Social Expertise and Rehabilitation of Disabled Persons", Ministry of Labour and Social Protection of the Russian Federation

#### Novokuznetsk, 2020

### Unified rehabilitation

Vera Lyakhovetskaya, m.d., Head of the department of the medical and social rehabilitation, physiotherapy and remedial gymnastics



### Centre structure

#### 226-bed facility comprises of:

- Department of neurosurgery 93 beds;
- Department of vascular surgery 73 beds;
- Department of orthopaedics 30 beds;
- Department of medical rehabilitation 30 beds.

**Unified Rehabilitation Service facilities:** rooms for therapeutic exercises, physiotherapy, psychology, psychotherapy, social and occupational adaptation.

Prosthetic and orthopaedic base for complex and atypical prosthesis; Research divisions.

### Our interest in ISWP

- Persons with locomotor impairments is the major population in the Centre.
- Wheelchair is one the most commonly prescribed assistive device for mobility.

### Wheelchair Skills Program (WSP)\*



Faculty of Medicine
Wheelchair Skills Program

Home Meet the Team Conditions of Use Skills Manual and Forms Other Tests Equipment **Upcoming Courses** Impact & Publications Testimonials Web Statistics Videos **Pictures** Posters Lectures Media Donations Games Related Sites Contact Us





#### ABOUT US

The Wheelchair Skills Program (WSP) is a set of free online low-tech, high-impact, evidence-based resources for the assessment and training of the wheelchair skills of users (with or without the assistance of caregivers) of manual wheelchairs, powered wheelchairs and motorized mobility scooters.

#### Warning

The wheelchair skills described and illustrated on this website can be dangerous and result in severe injury if attempted without the assistance of trained personnel.

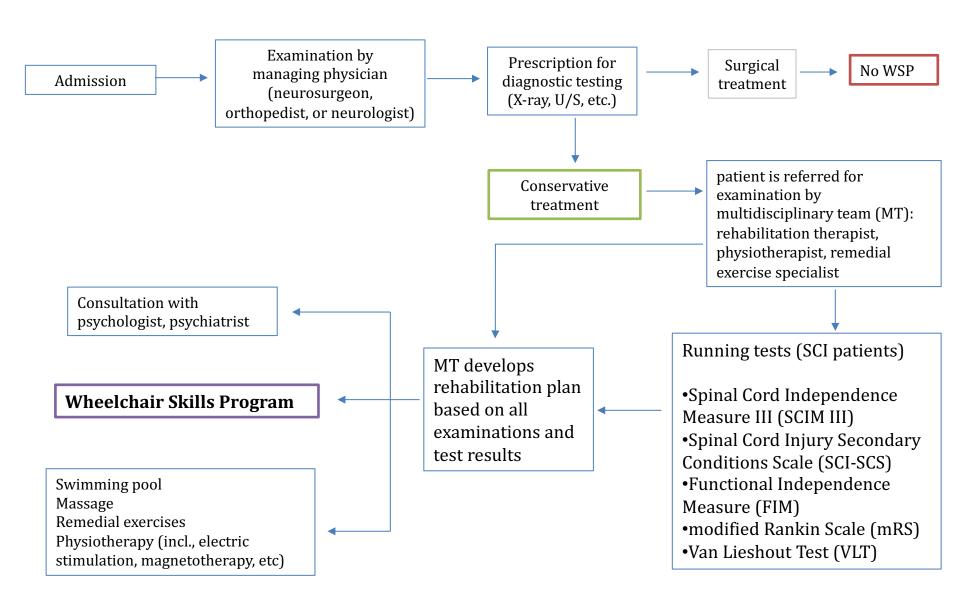
Visit us!





\* https://wheelchairskillsprogram.ca/en/

#### From admission to WSP



# Stage I Preparation for Wheelchair Skills Program





**«EKZARTA» (REDCORD)** Kinesiotherapeutic equipment for the rehabilitation of the patients with spinal cord injury for strengthening the core muscles and development of active movement skills

**IMITRON** WALKING SIMULATOR for strengthening the back muscles and development of motor skills

## Stage II Wheelchair Skills Program (WSP)

WSP consists of Wheelchair Skills Test (WST) and Wheelchair skills Training Program (WSTP), including:

- Rolling forward/backward short and long distances
- Turning in place
- Turning while moving forward/backward
- Maneuvering sideways
- Picking objects from floor

[full list and materials are available at https://wheelchairskillsprogram.ca/en/]







DESCENDS SLIGHT INCLINE AND STOPS



ROLLS ON SOFT SURFACE



PERFORMS LEVEL TRANSFERS

		· ·
WITTIFT	iccin	lingry toom
		linary team
I-I GLI GIG		IIIIIIII y COULIII

Managing physician (neurosurgeon, orthopedist, neurologist)	Medical university (higher education): 6 years (11 980 hours); + 1 year of internship; + 2 years of residency; + further vocational education (required every 5 years for all medical doctors with university degree)
Rehabilitation therapist	Medical university (higher education): 6 years (11 980 hours); + 1 year of internship, + 2 years of residency + further vocational education in exercise therapy and sports medicine; Physiotherapy, manual therapy and acupuncture
Rehabilitation specialist	Higher education in social sciences (university degree) 5 years (6 960 hours) + further training in exercise therapy
Exercise therapist	Higher pedagogical education in physical culture and sports (university degree) 5 years (8 640 hours) + further training in exercise therapy (remedial gymnastics)

## Major Challenges X



- None of the educational programs include courses related to the wheelchairs (or any other type of assistive technology for mobility)
- Rehabilitation centres are not required (not obligated) to be able to provide wheelchair skills training to the wheelchair users and/or their caregivers
- It might take over a year for a person to receive their first 2 wheelchairs (1 indoor, and 1 outdoor)
- Environmental factors: physical environment is rarely adjusted to the wheelchair users

## Positive aspects





- Social Insurance Fund provides people with disabilities with 2 wheelchairs (1 indoor, and 1 outdoor).
- Social insurance covers wheelchair maintenance and repair,
- New outdoor wheelchair is provided every 5 years.

#### Workshop for WHEELCHAIR SKILLS PROGRAM





International Scientific and Practical Conference, Novokuznetsk, 2019









# Thank you!

