

Technical Webinars

Subject: Rehabilitation after Amputation

Skill training for professionals working in physical rehabilitation of amputees

Audience: Surgeons, Nurses, Occupational Therapists, Physiotherapists, Sport Therapists, Psychologists, Prosthetist/Orthotists and any other clinical team members and experts in the field

Language: English with live interpretation into Ukrainian and Russian

Format: Online - Presentations via ZOOM

Duration: max. 45 minutes per lecture

Dates: 02.May / 08.May / 10.May - starting at 15:00 CEST

Expert groups / lecturers:

[Klinik Münsterland](#)

Prof. Dr. med. Dipl. oec. Bernhard Greitemann
Medical Director and Chief Physician

Dipl. Psych. S. Planning
Psychologist

Mrs. H. Kaiser
Physiotherapist

Lena Wirtz
Occupational Therapist

Michael Raulf
Sport Therapist

[Paracelsus Medizinische Universität](#)

Dr. Franz Landauer
Senior Physician, Department of Orthopedics Traumatology
Prosthetist & Orthotist

[Universitätsklinikum Heidelberg](#)

Dipl.-Ing. Merkur Alimusaj
Head of Department Orthopedic Technology

Tomas Lemlein
Physiotherapist

[MEDIAN Reha-Zentrum Wiesbaden Sonnenberg](#)

Natascha Raisig
Researcher

[OTH Döbling](#)

Hans Oppel
Prosthetist & Orthotist

[Lisan Sheepers](#)

Physiotherapist, Clinical Specialist

[World Health Organisation](#), Regional Office for Europe

Dr. Cathal Morgan
Technical Officer, Rehabilitation, Disability Inclusion and Assistive Technology

Dr. Volodymyr Golyk
National Professional Officer, Disability and Rehabilitation

Agenda

WEBINAR - Day 1 (4h) – Early Rehabilitation after Amputation

DATE: Tuesday, 02.05.2023 15:00 – 19:00 CET

Access LINK <https://who.zoom.us/j/98694122522>

Moderator: Schlierf Christian

Subject	Field of Lecture	Lecturers	Duration
Welcome & Introduction		Schlierf/Dr. Golyk (UA)	10 Min.
WHO REHAB 2030	Introduction to REHAB 2030	Dr. Cathal Morgan WHO (Office Copenhagen)	5 Min
The current emergency response of Physical Rehabilitation in UA	- Status Quo of the sector and players within UA	Dr. Volodymyr Golyk	30 Min
Overview and introduction to the professional field of REHA in Germany	- Goals and processes - related institutions and professional areas	Natascha Raisig	30 Min
Amputation	- pre-Rehabilitation - preparational measures	Dr. Landauer;	30 Min
	- Amputation with view on prosthetic care and follow-up > lower extremities > upper extremities	Dr. Landauer; Hans Oppel	45 Min 35 Min
	- prepare the future	Dr. Landauer; Hans Oppel	10 Min
Q/A	Collected questions to all presentations	ALL	30 Min

- WHO REHAB 2030

5 Min
Dr. Cathal Morgan

Background & Call for Action

Presenter:

Dr. Cathal Morgan

World Health Organisation

WHO Regional Office

Copenhagen, Denmark

Emergency response of Physical Rehabilitation in Ukraine

30 Min
Dr. Volodymyr Golyk

The current situation regarding Rehabilitation after Amputation in Ukraine

Presenter:

Dr. Volodymyr Golyk

National Professional Officer, Disability and Rehabilitation,

WHO Country office in Ukraine

Overview and Introduction to the Sector

– Goals and Processes

– Participating institutions and professional specialty areas

45 Min
Natascha Raisig

Introduction to physical and rehabilitation medicine.

Tasks and goals

Therapy methods and interventions

Fields of activity

UN Convention and German Legislation

Rehabilitation Process after Amputation

Overview

Contributing specialty areas – multidisciplinary team

Goals

Rough outline of the individual phases (pre-operative - long-term rehab)

How to measure success in rehabilitation?

PROMs

Functional outcomes measurements

Presenter:

Natascha Raisig

Researcher

MEDIAN Reha-Center

Wiesbaden, Germany

Amputations

Pre -Rehabilitation

Preparatory measures

30 Min

Dr. Landauer

Congenital malformation

Concept for the patient: Limb preservation or amputation?

An individual decision

Tumor

Prevention of metastases by amputation

Preparation of amputation despite existing metastases

Diabetes mellitus

Differentiation between infection and diabetic neuropathic osteoarthropathy

Wound treatment or amputation - Where is the border?

Trauma

Increase in traumatic amputations does not result in a decrease in other indications

Exploit opportunities for limb preservation

Concomitant injuries as a basis for decision-making

The time to decision and performance of amputation

The goal of care is decisive

Amputation with a view to subsequent prosthetic fitting

> lower extremities

45 Min

Dr. Landauer (10 Min)

Foot amputation

A resilient residual limb is the goal

What changes can be expected as a result of the resulting muscular imbalance?
expected?

When can stable balance be expected?

What prosthetic restoration is targeted: Cosmetic versus resilient

CPO H.Oppel (35 Min)

Transtibial amputation

- Stump length and stump shape are critical for prosthetic fitting?
- Preserve or remove the soleus muscle?
- The interosseous membrane as a stabilizing structure
- The borderline to knee disarticulation

Knee disarticulation

- The disadvantages compared to transtibial amputation
- The advantages compared to transfemoral amputation
- The technical possibilities of knee disarticulation
- The surgical indication for shortening the femur length

Above-knee amputation

- Changes depending on the length of the residual limb
- Is there a stump that is too long or too short?
- Scars as a limitation for prosthesis fitting

Hip disarticulation

- The boundary between short femoral stump and hip disarticulation
- When seating comfort becomes critical

Concomitant injuries and pathologies as a basis for decision-making

> upper extremities

45 Min
CPO H.Oppel (35 Min)

Finger amputation

- Which residual functions are essential? The tweezer grip makes the difference
- What function can be built upon prosthetically?

Hand amputation

- Cosmetics and function in competition

Forearm amputation

- Which residual limb length is easy to fit myoelectrically?
- Which prosthetic functions are used by patients in everyday life?
- Are there alternatives?

Elbow disarticulation

- The bony stump shape as an advantage and disadvantage.

Upper arm amputation

- Which residual limb length and residual limb shape allows for secure prosthesis retention
- Alternative surgical measures for "improved" prosthetic fitting

Shoulder disarticulation

- Options for prosthetic fitting

> prepare the future

Dr. Landauer (10 Min)

The future has already begun:

Considerations in amputation planning for subsequent alternative restorations:

- Osseointegration
- Target Muscle Reinnervation
- Transplantation

Presenters:

Dr. Franz Landauer

Specialist in orthopedics and Prosthetist/Orthotist
Paracelsus Medical University
SALK - Department for Orthopedics and Traumatology
Salzburg, Austria

Hans Oppel

Prosthetist/Orthotist (CPO)
OTH Döbling
Vienna, Austria

WEBINAR - Day 2 (4h) – Mid-term and continuing rehabilitation of amputees

DATE: Monday 08.05.2023 15:00 – 19:00 CET

[Access LINK](https://who.zoom.us/j/98691430726) <https://who.zoom.us/j/98691430726>

Moderator: Schlierf Christian

Subject	Field of Lecture	Lecturer	Duration
Welcome & Introduction		Schlierf/Dr. Golyk (UA)	10 Min.
Rehabilitation after Amputation in D – A – CH countries	- The rehabilitation system after amputation; overview and perspectives	Prof. Dr. Greitemann	45 Min
Psychological Support	Psychotherapy: planning, support and treatments	Dipl. Psych. S. Panning	45 Min
Coffee Break	Break	Break	20 Min
Post - Operative Treatments	- Oedema-therapy, handling of prosthetic devices, gait training in early rehabilitation	H. Kaiser	45 Min
Occupational Therapy & Sport Therapy	ERGO & Sport Therapy in Rehabilitation	Lena Wirtz; Michael Raulf	45 Min
Q/A	Collected questions to all presentations	ALL	30 Min

WEBINAR - Day 3 (3.5h) – Prosthetic Treatments – long term perspective

DATE: Wednesday 10.05.2023

15:00 - 18:30 CET

[Access LINK](#)

<https://who.zoom.us/j/94756031344>

Moderator: Schlierf Christian

Subject	Field of Lecture	Lecturer	Duration
Welcome & Introduction		Schlierf/Dr. Golyk (UA)	10 Min
Technical Solutions for Prosthetic Treatments after Amputation: Principles and Challenges	- technical possibilities of early prosthetic care (interim) and current treatment standards	Dipl. Ing. Merkur Alimusaj	45 Min
Early Mobilization after Amputation	- early verticalization and mobilization; Physiotherapy and Transfers	Tomas Lemlein	45 Min.
From early prosthetic intervention to definitive prosthetic care	- Mobilization and gait training	Lisan Scheepers	45 Min.
Q/A	Collected questions to all presentations	ALL	30 Min.

Technical Solutions for Prosthetic Treatments after Amputation: Principles and Challenges

45 Min

Merkur Alimusaj

Technical possibilities of early prosthetic care (interims prosthesis) and current treatment standards shall be introduced

- Influencing factors
- Anatomical aspects
- Biomechanical background

How is the fitting process structured?

- Special Aspects of things to be done prior the prosthetic fitting
- Stump consolidation
- Volume fluctuation

Current socket techniques

- State of the Art and why
- Special needs and Challenges in prosthetics
- Aspects of components in lower limb Prosthetics

Early Mobilization after Amputation

45 Min
Tomas Lemlein

Early verticalization and mobilization; Physiotherapy and Transfers

- General aspects of early mobilization in principle
 - Why do we need early verticalization and mobilization?
 - How do we motivate Patients?
 - Which are the correct steps
 - Accompanying therapeutically aspects
 - Compression therapy
 - Joint mobilization

Transfer ability in Patients after amputation

- Sit to Stand
- Stand to sit

How to deal with falls and how to get up!

- Help against fear of falling

From early prosthetic intervention to definitive prosthetic care

45 Min
Lisan Scheepers

Mobilization and Gait Training

- The Amputation and what it means regarding Mobility
- How to start
 - Is it all about walking?
 - Training beyond walking
- How to move on
 - Dealing with setbacks
 - How to gain Stability

What does the Therapist have to know about the prosthesis?

- How does the prosthesis influence the training?
- How do I train for challenging terrain?
 - Uneven Ground
 - Stairs
 - Ramps
 - ... and combinations of the aforementioned

Presenters:

Dipl.-Ing. Merkur Alimusaj
Head of Department Orthopedic Technology
[Universitätsklinikum Heidelberg , Germany](#)

Tomas Lemlein
Physiotherapist
[Universitätsklinikum Heidelberg , Germany](#)

[Lisan Sheepers](#)
Physiotherapist, Clinical Specialist
Netherlands

ACCESS LINKS for Audience

(no password required)

2 May <https://who.zoom.us/j/98694122522>

8 May <https://who.zoom.us/j/98691430726>

10 May <https://who.zoom.us/j/94756031344>

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