

WE OFFER:

STRUCTURED MASTERS

We are in the process of redesigning the structured Masters course.

Planned implementation is 2018

RESEARCH MASTERS

(Students are encouraged to work within the divisional research focus area)

Course duration: Two year part-time or one year full-time.

Admission Criteria:

- A four-year bachelor's degree in Physiotherapy, or an equivalent qualification approved by Senate;

PhD

(Students are encouraged to work within the divisional research focus area)

Course duration: Minimum three-year duration (full-time)

Admission Criteria:

Master's degree *(subject to senate approval)*

NOTE: students can only register for PhD once their protocols are approved or they have a bursary



EQUIPMENT AVAILABLE

At the division of Physiotherapy, SU, we currently offer access to the following equipment and facilities for research purposes:

- 3D motion analysis lab
- Portable motion analysis equipment
- EMG
- Dynamometer
- Physiotherapy gym equipment
- Diagnostic Ultrasound
- LODOX machine
- Virtual reality equipment
- ET machines
- Electronic portable lung function
- Pressure
- Force plate

COLLABORATORS

We work closely with a variety of professions, disciplines at a local, national and international level.

CONTACT US:

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Faculty of Medicine and Health Sciences
Stellenbosch University



PHYSIOTHERAPY POSTGRADUATE PROGRAMS

Physiotherapy Research Vision

The Stellenbosch research vision is to contribute towards **understanding of physical function** in order to design, validate and evaluate evidence based diagnostic, preventative and rehabilitation strategies to **optimize function** and thereby **enhance quality of life and health**.

NOW ACCEPTING APPLICATIONS FOR 2017

**INTERNAL APPLICATION
DEADLINE 3 October 2016**

PROSPECTUS

Detailed information of all our postgraduate programs available on line: <http://www.sun.ac.za/Physiotherapy>

Follow us on Twitter for updates on all things postgraduate activities @MatiesPhysio

Divisional Research Focus

The following research projects are currently available for students to join.

PEDIATRIC NEUROLOGY

MS M BURGER (MBU@sun.ac.za)
DR M UNGER (munger@sun.ac.za)

Optimizing functional ability of children with cerebral palsy (measurement and intervention studies):

Comparator studies: e.g. land-based vs. vibration platform training
What is the influence of wearing shoes on the balance subscale/dimension in selected developmental motor performance measures/scales?
Efficacy studies of aerobic based activities vs. resistance based activities in children with and/or without pathology

Neuro-developmental outcome of infants born to mothers with severe mental illness:

The objective of this study is to evaluate infants' fine and gross motor outcome of children born to mothers with severe mental illness at 6months corrected age.

MOVEMENT ANALYSIS:

DR Y BRINK (ybrink@sun.ac.za)

The postural stability and motor control of children diagnosed with Fetal Alcohol Spectrum Disorders. The project focusses on describing the gross and fine motor functioning of children with Fetal Alcohol Spectrum Disorders compared to children with no prenatal alcohol exposure. The research team includes physiotherapists and bioengineers.

PAIN

MS D ERNTSZEN (DD2@sun.ac.za)

The focus of this project is the assessment of pain in various health care contexts in South Africa. These healthcare contexts could include primary, secondary or tertiary in the neuro-musculoskeletal or neurological fields. Aspects could include validation of pain outcome measures, as well as investigation into the prevalence and characteristics of pain in selected groups

NEUROMUSCULOSKELETAL

PROF Q LOUW (galouw@sun.ac.za)

Etiology of anterior knee pain

This project encompasses a range of investigations into the etiology of anterior knee pain. Biomechanical and morphological factors will be investigated. The project will be conducted by a multidisciplinary team consisting of physiotherapists, bioengineers, orthopaedic surgeons and radiologists.

CARDIO PULMONARY

PROF S HANEKOM (sdh@sun.ac.za)

Exercise prescription in ICU: Immobility of critical ill patients has been associated with the development of impairments. This international collaborative project will aim to inform exercise prescription in the critically ill population.

Ventilator Induced Diaphragmatic Dysfunction

(VIDD): This multidisciplinary project will aim to identify predictive markers for extubation failure and develop targeted management strategies to address diaphragmatic weakness.

Pulmonary rehabilitation in pulmonary tuberculosis (PTB) population: This FIRLT funded project is an international comprehensive multidisciplinary project which aims to investigate the role of exercise/rehabilitation in the prevention and management of the disability associated with PTB

Translational Research
This MRC funded project aims to investigate the uptake of evidence in the management of Critically ill patients.

WOMENS HEALTH

PROF S HANEKOM (sdh@sun.ac.za)

Optimizing women's health service delivery

This multidisciplinary international project provides an opportunity for a post graduate student to work in the urogynae clinic while completing a research project

CHRONIC PAIN

Dr L MORRIS (ldmorris@sun.ac.za)

Research in chronic pain/fibromyalgia: Research projects into the successful managements, accurate measurement and quantification of pain (specifically chronic pain) and pain-related disability among developing nations.

Rehabilitation Clinical guidelines: Opportunity for M and D students to be part of a nationwide project to develop integrated, comprehensive rehabilitation clinical guidelines for the primary health care sector.

EXERCISE AND REHABILITATION

DR M UNGER (munger@sun.ac.za)

Efficacy studies investigating exercise equipment designed for rehabilitation purposes

This project encompasses a range of investigations into the associative and causative factors of neuromuscular-skeletal pain as well as investigations into a new approach to assessment and treatment of NMS pain and dysfunction. The study involves laboratory motion analysis, force plate and EMG studies