

Title: Physical therapy in paediatric critical care and neuromuscular disease

Organizer: Brenda.Morrow@uct.ac.za

Date and time: June 4th, 0830-1700

Location: MTCC 714 A

Objectives: To develop knowledge and skills in the theory and practice of cardiopulmonary physiotherapy in the paediatric intensive care unit (PICU) and for children with neuromuscular disease (NMD) and respiratory muscle weakness. This full-day interactive workshop will first present the current theory and evidence in support of physiotherapy practice in PICU and NMD, in lecture, debate and discussion format by international experts in the field. The afternoon session will then involve rotation of delegates through several practical workstations. These will include the use of simulation high fidelity mannequins to facilitate training of practical hands-on skills in different clinical scenarios.

Target Audience: Physiotherapists/ physical therapists

Agenda:

0830 – 0835: Welcome and introduction of panel

0835 – 0925: Debate – “Manual techniques in the PICU are a thing of the past” (Chaired by Karen Choong, Canada)

- Speaking for the motion – Brenda Morrow (South Africa) 0835-0850
- Speaking against the motion – Sarah Wright (Australia) 0850 – 0905
- Open to the floor for discussion 0905 – 0920
- Closing and summation by Chair 0920 – 09:25

09:25 – 1000 Early mobilisation and rehabilitation in the PICU – Sapna Kudchadkar (USA) and Karen Choong (Canada)

1000-1030: Break

1030 – 1100: Home ventilation/trache programs – experience from different centers - Jane Booth (South Africa) and Hilda Perry (Canada) Tea break

11:00 – 11:45: Debate: mechanical insufflation/exsufflation (cough assist) should be used for paediatric neuromuscular disorders (Chaired by Sarah Wright, Australia)

- Speaking for the motion - Jamil Lati, Canada 1100 – 1115
- Speaking against the motion - Brenda Morrow, South Africa 1115 – 1130
- Audience discussion 1130 – 11:40

- Closing and summation by Chair 1140 – 1145

1145 – 12:05 Novel methods of airway clearance in paediatric NMD (Hilda Perry, Canada)

1205 – 12:25: Effect of physiotherapy positioning on the paediatric lung (Brenda Morrow, South Africa)

1225 – 12:55 Outcome measures in paediatric critical care physiotherapy and rehabilitation research (Karen Choong, Canada).

1300 – 1400 Lunch break

1400– 1415 Introduction to Simulation Training in paediatric cardiopulmonary physiotherapy (Sarah Wright, Australia)

14:10 – 16:00 Practical session

Delegates will rotate through three 30 minute practical stations, with different clinical simulation scenarios (using high fidelity mannequins), facilitated by the Steering Committee.

1. Spontaneously breathing infant (manual techniques and positioning)
2. Mechanically ventilated infant (manual and ventilator techniques)
3. Child with neuromuscular disease (different cough augmentation techniques)