



## **SAVING YOUNG LIVES – RENAL SKILLS WORKSHOP**

**Location:** Red Cross War Memorial Children’s Hospital  
Cape Town, South Africa

**Course Directors:** Mignon McCulloch, Alp Numanoglu & Brett Cullis

**Dates:** 17 - 21 July 2023

### **OVERVIEW**

#### **MONDAY 17<sup>th</sup> July 2023**

- Renal PLS (Paediatric Life Support Resuscitation training)

#### **TUESDAY 18<sup>th</sup> July 2023**

- Vascular Access Course (Doctors)
- PD for Nurses (Nurses)

#### **WEDNESDAY 19<sup>th</sup> July 2023**

- AKI Lectures and Case Studies

#### **THURSDAY 20<sup>th</sup> July 2023**

- Peritoneal Dialysis Insertion Workshop

#### **FRIDAY 21<sup>st</sup> July 2023**

- Clinical Stations – Acute PD/Automated /HD/CVVH



**Monday 17<sup>th</sup> July 2023**

**SYL PLS Programme**

**Venue: Paediatric Skills Lab – 2nd<sup>th</sup> Floor, ICH Building, RXH**

- 08:30 – 09:00 Registration and COFFEE.  
Meet with Mignon McCulloch
- 09:00 – 09:15 Welcome / Introduction (Shamiel)
- 09:15 – 09:45 Recognition of the seriously ill child (Heloise)
- 09:45 – 10:10 Management of cardiac arrest (ICU SR)
- 10:10 – 10:30 Lung ultrasound (Shamiel)
- 10:30 – 10:50 COFFEE
- 10:50 – 12:30 Skill stations (4 x 25 minutes)

	10:50 – 11:15	11:15 – 11:40	11:40 – 12:05	12:05 – 12:30
Basic life support Lecture Theatre - Heloise	A	B	C	D
Airway – Basic Room 1 and 2 – ICU SR	D	A	B	C
Lung ultrasound Room 3 and 4 – Shamiel	C	D	A	B
Oxygen, high flow & CPAP Room 5 – Andrew	B	C	D	A

- 12:30 – 13:15 LUNCH (3<sup>rd</sup> floor ICH)
- 13:15 – 13:35 Fluids (Andrew)
- 13:35 – 14:00 Demonstration & Teamwork: Serious illness simulation (All)

14:00 – 15:40

Skill stations/workshops (4 x 20 minutes)

	14:00 – 14:20	14:20 – 14:40	15:00 – 15:20	15:20 – 15:40
Simulation Lecture Theatre - Heloise	A	B	C	D
Chest drains Room 1 and 2 – ICU SR	D	A	B	C
Intraosseous infusion Room 3 and 4 – Shamiel	C	D	A	B
Simulation Room 5 – Andrew	B	C	D	A

14:40 – 15:00

COFFEE after second session

15:40 – 16:00

Questions and Debrief



**Tuesday 18<sup>th</sup> July 2023**

**Vascular Access Course (Doctors)**

**Venue:** Surgical Skills Lab – 6<sup>th</sup> Floor, ICH Building, RXH

**Director:** Rebecca Gray

***Pre-reading:*** *Basic principles and use of ultrasound machine pdf*

**Agenda:**

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|----------------------|--|
| 08:00 – 08:15        | Registration 6 <sup>th</sup> Floor ICH Surgical Skills Lab                           |
| 08:15 – 08:30        | Introduction to the day (Mignon McCulloch)   |
| 08:30 – 09:00        | Anatomy and landmarks for insertion (Kotie Bester)                                   |
| 09:00 – 09:30        | Ultrasound principles and knobology (Rebecca Gray)                                   |
| 09:30 – 10:00        | Ultrasound anatomy (Rebecca Gray)  |
| 10:00 – 10:30        | Tea & Coffee break   |
| 10:30 – 11:00        | Tricks of the trade: making line insertion easier (Jenny Thomas)                     |
| <b>11:00 – 15:00</b> | <b>Hands-on training in the Surgical Skills Laboratory</b>                           |
| 11:00 – 11:30        | Introduction (Rebecca Gray)<br>(Divide into groups of 3 or 4 per ultrasound machine) |
| 11:30 – 12:15        | Practice identification of sonar anatomy of the neck veins                           |
| 12:15 – 13:00        | Lunch  |
| 13:00 – 13:45        | Practice in-plane and out-of-plane needling techniques on blocks                     |
| 13:45 – 14:30        | Practice line insertion on models  |
| 14:30 – 15:00        | Closure of Vascular Access   |
| 15:00 – 15:15        | Tea  |
| 15:15 – 15:30        | Fluid management - preventing fluid overload (Mignon McCulloch)                      |
| 15:30 – 16:00        | Gastroenteritis & fluid management (Heloise Buys)                                    |



**Tuesday 18th July 2023**

**PD for Nurses (Nurses)**

**Venue:** Hospital E Floor Seminar room

**Agenda:**

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|---------------|--|
| 08:00 – 08:15 | Registration all on 6 <sup>th</sup> Floor ICH Surgical Skills Lab  |
| 08:15 – 08:30 | Introduction to the day (Mignon McCulloch) Nurses move to Hospital |
| 09:00 – 09:30 | Social challenges & insight, RXH experience (Social Worker)        |
| 09:30 – 10:00 | THE RENAL DIET what we should know (Shihaam Cader)                 |
| 10:00 – 10:30 | Tea & Coffee break 6 <sup>th</sup> Floor Surgical Skills Lab       |
| 10:30 – 11:15 | Training of Parents (Jessie Mtetwa/Ilana Webber)                   |
| 11:15 – 11:45 | Exit Site Care (Jessie Mtetwa)                                     |
| 11:45 – 12:30 | Lunch  |
| 12:30 – 13:00 | Application for different solutions (Maretha Schoeman)             |
| 13:00 – 13:45 | Homechoice Claria remote patient monitoring (Maretha Schoeman)     |
| 13:45 – 14:30 | Infectious & Non-Infectious PD Complications (Maretha Schoeman)    |
| 14:30 – 15:00 | PD Documentation and Consumables (Petronella Ranjit)               |
| 15:00 – 15:15 | Tea  |
| 15:15 – 15:30 | Fluid management – preventing fluid overload (Mignon McCulloch)    |
| 15:30 – 16:00 | Gastroenteritis & Fluid management (Heloise Buys)                  |



**Wednesday 19<sup>th</sup> July 2023    Dialysis Lectures and Case Studies**

**Venue:** Surgical Skills Lab – 6<sup>th</sup> Floor, ICH Building, RXH

**Agenda:**

07:30 – 08:00	Registration
08:00 – 08:30	Welcome and Introduction
08:30 – 10:30	Case Studies (Renal Team)
10:30 – 10:45	Tea
10:45 – 11:15	Acute Kidney Injury (AKI) (Stefano Picca)
11:15 – 12:00	Basic concepts of Peritoneal Dialysis (Brett Cullis)
12:00 – 12:45	Lunch
12:45 – 13:15	Indications & prescription & Guidelines (Peter Nourse)
13:15 – 13:45	What can go wrong with PD and what to do? (Ashton Coetzee)
13:45 – 14:15	What types of fluids are available? (Brett Cullis)
14:15 – 14:45	Improvising when there is no equipment (Mignon McCulloch)
14:45 – 15:15	Tea
15:15 – 15:45	CFPD as an alternative (Peter Nourse)
15:45 – 16:15	Supportive Care (Priya Gajjar)
16:15 – 16:30	Wrap Up Mignon McCulloch/Brett Cullis



**Thursday 20<sup>th</sup> July 2023      Peritoneal Dialysis Insertion Workshop**

**Venue: Surgical Skills Lab – 6<sup>th</sup> Floor, ICH Building, RXH**

08:00 - 10:00	<p>How to perform an open insertion PD? (Tinus Du Toit)</p> <p>How to do Laparoscopic insertion &amp; salvage? (Alp Numanoglu / Thozama Siyotula)</p> <p>Challenges of PD programs in Africa and Adult issues (Nicci Wearne)</p> <p>Insertion by Seldinger/ bed-side techniques (Brett Cullis)</p>
10:00 – 10:30	Tea
10:30 – 12:30	<p>Demonstration: Mignon McCulloch/Brett Cullis/Alp Numanoglu</p> <ul style="list-style-type: none"> <li>• Percutaneous insertion using porcine models <ul style="list-style-type: none"> <li>– Cook Catheters</li> <li>– Peelaway PD Catheters</li> </ul> </li> <li>• Open insertion using porcine models <ul style="list-style-type: none"> <li>– Conventional Tenckhoffs</li> <li>– Manual dialysis techniques</li> </ul> </li> <li>• CFPD new station - Peter Nourse</li> </ul> <p><b>Practical sessions with facilitators</b></p> <p>Adult: Brett Cullis / Nicci Wearne / Bianca Davidson / Erika Jones/Annabel Boyer</p> <p>Paeds: Alp Numanoglu/Thozama Siyotula/ Stefano Picca / Jonathan Buckley / Ashton Coetzee / Peter Nourse / Priya Gajjar / Deon Russian /Deveshni Reddy /Boni Chauke-Makamba / Mignon McCulloch</p>
12:30 – 13:15	Lunch – Team Photo
13:15 – 15:30	Practical sessions with facilitators ongoing – <b>Exam at the end</b>
15:30 – 17:00	Review of PD catheters, fluids, Acute PD and PD cyclers (Maretha Schoeman / Petronella Ranjit / Ilana Webber)



## Groups

1. Brett Cullis/Annabel Boyer
2. Peter Nourse/Adewale Adetunji
3. Nicci Wearne/Stefano Picca
4. Bianca Davidson/Jonathan Buckley
5. Erika Jones /Ashton Coetzee
6. Mignon McCulloch
7. Thozama Siyotula/Deveshni Reddy/Boni Chauke-Makamba
8. Deon Russion/Priya Gajjar

Fellows also to help





**Friday 21<sup>th</sup> July 2023 CRRT and Machine Demonstration**

08:00 – 08:30	Arrival Tea
08:30 – 10:00	<p>Location: D Floor PICU Seminar room RXH (Not ICH building)</p> <p>Topic: How to prescribe CRRT: guidelines and clinical case (Stefano Picca)</p>
10:15 – 12:00	<p>Location: Workstations on the Ward E2 Dialysis unit including Candice Nelson / Gina Sinclair / Nokubulela Sapepa / Sanel De Jager / PICU Technologists/Jenny Visser / Lorraine Van Wyk</p> <ul style="list-style-type: none"> <li>• CAPD</li> <li>• Acute Haemodialysis</li> <li>• CVVH</li> </ul> <p>Closure: Mignon McCulloch</p>