

Title: Utilizing Ultrasound in the PICU

Organizers: Drs Jeff Burzynski and Erik Su

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Date and time: June 4th and 5th, 0830 to 1700

Location: MTCC 716A and B

Learning objectives:

This workshop will provide an in-depth overview of all aspects of critical care ultrasound. The main modalities of use to the pediatric intensivist will be covered with a combination of didactic lectures and hands-on workshops. These include vascular access/procedural ultrasound, thoracic ultrasound, basic critical care echocardiography, and abdominal ultrasound. There will also be sessions covering administrative topics such as education, program development and accreditation. The content will be taught with a combination of didactic sessions as well as multiple hands-on small group sessions where the attendee will have ample time to develop and practice their ultrasound skills. At the end of the workshop, the attendee will be comfortable with basic critical care ultrasonography.

Target audience : Critical care physicians including trainees

Desired Results: The participant in each aspect will be able to apply knowledge attained from attending this workshop and utilize ultrasound to improve their care of children in their intensive care unit.

Faculty:

Dr. Jeff Burzynski (co-lead) (Children's, Winnipeg, Canada)

Dr. Erik Su (co-lead) (Hopkins, USA)

Dr. Mahmoud El-Barbary (Saudi Arabia)

Dr. Joan Sanchez de Toledo (Pitt, USA)

Dr. Ellie Hirschberg (Utah, USA)

Dr. Troy Dominguez (GOS, UK)

Russ Horowitz;

Programme

DAY 1 SATURDAY	2016-06-04		
TIME	TOPIC	<i>HOT GROUP #1</i>	<i>HOT GROUP #2</i>
8:30-9:00	Welcome/Introduction/Basics/Knobology		

9:00-9:15	Respiratory physiology applying to ultrasound		
9:15-9:45	Approach to respiratory failure with ultrasound		
9:45-10:00	Review of pediatric shock/Cardiovascular physiology		
10:00-10:15	REFRESHMENT BREAK		
10:15-11:15	Hands-on sessions/Basic respiratory cases	HOT SESSION 1 (lung)	BASIC CASES (lecture)
11:15-12:15	Hands-on sessions/Basic respiratory cases	BASIC CASES (lecture)	HOT SESSION 1 (lung)
12:15-13:00	LUNCH		
13:00-13:30	Basic point of care echocardiography in the PICU		
13:30-14:00	Basics of fluid resuscitation/volume assessment		
14:00-14:45	Hands-on sessions/Ultrasound approach to shock(lecture)	HOT SESSION 2 (CARDIAC A)	Ultrasound approach to pediatric shock
14:45-15:30	Hands-on sessions/Ultrasound approach to shock(lecture)	Ultrasound approach to pediatric shock	HOT SESSION 2 (CARDIAC A)
15:30-15:45	REFRESHMENT BREAK		
15:45-16:30	Hands-on sessions/Cardiac and Shock Cases (lecture)	HOT SESSION 3 (CARDIAC B)	CARDIAC/SHOCK CASES
16:30-17:15	Hands-on sessions/Cardiac and Shock Cases (lecture)	CARDIAC/SHOCK CASES	HOT SESSION 3 (CARDIAC B)
DAY 2 SUNDAY	2016-06-05		
TIME	TOPIC		
8:00-8:30	Approach to the pediatric trauma patient/eFAST		
8:30-9:00	Cardiac arrest management with POCUS		
9:00-9:30	Vascular access and other procedures		

9:30-10:15	Refreshment break/Hands-on sessions	Refreshment break	HOT SESSION 4 (eFAST)
10:15-11:00	Refreshment break/Hands-on sessions	HOT SESSION 4 (eFAST)	Refreshment break
11:00-12:00	Hands-on sessions/STUDY TIME	HOT SESSION 5 (VASCULAR)	FREE/STUDY TIME
12:00-13:00	Hands-on sessions/STUDY TIME	FREE/STUDY TIME	HOT SESSION 5 (VASCULAR)
13:00-13:30	LUNCH		
13:30-14:00	How to integrate u/s into daily critical care practice		
14:00-14:30	How to start an u/s program in your institution		
14:30-15:00	Educational/accreditation issues with POCUS		
15:00-15:15	REFRESHMENT BREAK		
15:15-16:15	Hands-on sessions/Interesting cases	HOT SESSION 6 (Review/Eval)	INTERESTING CASES
16:15-17:00	Hands-on sessions/Interesting cases	INTERESTING CASES	HOT SESSION 6 (Review/Eval)
17:00-17:15	WRAP-UP/EVALUATIONS		