

Fundamentals of Pediatric Point-of-Care Ultrasound Certificate Curriculum

Module	Modality	Approx. Hours	Details
#1 Theoretical Knowledge Acquisition	Online	3 hours per week (4 weeks)	<p>Trainees will have 4 weeks to complete 7 self-paced online units. The units are designed to provide learners with the knowledge of fundamental diagnostic POCUS applications including:</p> <ul style="list-style-type: none"> 1.1 Introduction to POCUS and its applications 1.2 Basic ultrasound physics & knobology 1.3 Lung ultrasound 1.4 Cardiac ultrasound 1.5 Trauma ultrasound 1.6 Soft Tissue 1.7 Intussusception <p>Trainees are required to complete and pass all the online quizzes before Module 2. Trainees who fail to pass any of the online quizzes will be given the chance to pass them before Module 4 in order to proceed with the program.</p>
#2 Skill Development	Face to face	8 hours per day (2 days)	<p>Trainees will learn how to use POCUS machines, acquire, and interpret images. Training will be conducted on MBRU premises.</p>
#3 Practice in Clinical workplace	Learner's Workplace	N/A	<p>Trainees will spend 14 weeks practicing the POCUS skills taught in Module 1 & 2 in their own clinical workplace and upload ultrasound scans on an e-portfolio for faculty review and feedback.</p>

#4 Skills Refreshment	Face to face	8 hours per day (2 days)	Trainees will have the opportunity to refresh their POCUS skills and practice at MBRU premises on standardized patients and discuss cases from their portfolio.
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#5 Complete e-portfolio	Learner's Workplace	N/A	Trainees will have 30 weeks to practice the skills in their own workplace setting. During this module trainees are required to complete and submit ultrasound scans via e-platform for review and feedback by faculty.
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Trainee must complete the required number of scans prior to Module 6.

Ultrasound Application	Required number of scans
Cardiac ultrasound	30
Lung ultrasound	25
Trauma ultrasound	25
Soft Tissue	25
Intussusception	25

#6 Competency assessment	Face to face	8 hours	Trainee's mastery of the knowledge, technical and practical skills will be assessed in two ways: written exam & Objective Structured Clinical Exam (OSCE)
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