EXAMPLES OF COSTUMISED AND PROGRESSIVE POCUS CURRICULA

Procedures in red and new modules 2025 with an asterisk

INITIATION AND BASIC

Components	*Modules*	Students (centred on anatomy)	Internal medicine (private practice)	Internal medicine (hospital practice)	Emergency medicine	Critical care medicine	Nephrologist	Pneumology	Anesthesiology	Surgery
Technique	Waves and acoustic physics									
	Ultrasound system									
	Operating modes									
	Artifacts in 2D mode									
	Doppler mode									
	Optimising use and settings									
	Probe orientation and manipulation									
	Echoguidance*									
	Probe disinfection									
	Diagnostic performance of POCUS*									
	POCUS and artificial intelligence*									
Heart	Parasternal long axis view									
	Parasternal short axis view									
	Apical 4 and 5 chamber view									
	Apical 2 and 3 chamber view									
	Subcostal 4 chamber view									
	Inferior vena cava view									
	Haemodynamic assessement									
	- Left ventricular systolic function									
	- Right ventricular function									
	- Clinical utility of the IVC									
	- Pericardial effusion									
	- Tamponade									
	- Optional useful measurements									
	- Stroke volume estimation									
	Stroke volume estimation									
	Valves (basic)									
	Pericardiocentesis									
Lung and thorax	Semiology									
	Interstitial diseases									
	Pleural diseases									
	Pneumothorax									
	Consolidation									
	Rib fracture									
	Thoracentesis									

Components	*Modules*	Students (centred on anatomy)	Internal medicine (private practice)	Internal medicine (hospital practice)	Emergency medicine	Critical care medicine	Nephrologist	Pneumology	Anesthesiology	Surgery
Abdomen	Liver*									
	Ascitis and paracentesis									
	Gallbladder									
	Spleen*									
	Bladder									
	Kidney									
	Suprapubic catheter placement									
	Prostate*									
	Abdominal aorta									
	FAST: perihepatic view									
	FAST: perisplenic view									
	FAST: perivesical view									
Vessels	Deep venous thrombosis									
	Peripheral vein catheterisation									
	Midline catheter insertion									
	Jugular vein catheterisation									
	Femoral vein catheterisation									
	Subclavian and axillary catheterisation									
	Artery catheterisation									
Nervous system	Lumbar puncture									
Soft tissue-muscle-bone	Skin and soft tissue infections									
	Lymph nodes and fine needle aspiration*									
	Testis and adjacent structures*									
	Musculoskeletal system									
	Arthrocentesis									
	Bone marrow puncture									
Protocols	POCUS in prehospital setting									
	Cardio-respiratory failure									
	Blue protocol									
	E-FAST									
	Cardiac arrest									
	Examination reports									

ADVANCED FOR HOSPITALISTS

Components	*Modules*	Internal medicine (private practice)	Internal medicine (hospital practice)	Emergency medicine	Critical care medicine	Nephrologist	Pneumology	Anesthesiology	Surgery
Heart	Doppler technique								
	Left ventricular systolic function								
	Segmental wall kinetics								
	Right ventricular function								
	Cardiac output								
	Pulmonary artery pressure								
	Right atrial pressure								
	Left atrial pressure and diastolic function								
	Preload dependence								
	Pericardial effusion and tamponade								
	Massive lung embolism								
	Valves								
	Endocarditis								
	LV outflow tract obstruction								
	Thoracic aorta								
	Transvenous temporary pacemaker insertion								
	Microbubble test								
Airways	US assessment of anticipated difficult airway								
	US assessment for increased risk of aspiration								
	Diaphragmatic function								
	Endotracheal tube placement								
	Percutaneous cricothyrotomy								
Abdomen	Intestinal anatomy and scanning technique								
	Intestinal obstruction								
	Peritonitis and pneumoperitoneum								
	Gastric content								
	Biliary tract anatomy and obstruction								
	Appendicitis*								
	Diverticulitis *								
	Ectopic pregnancy*								
	Liver segments*								
Vessels	Arteriovenous fistulas								
	Complications post angiography								
Brain	Optic nerve and intracranial pressure								
	Brain transcranial Doppler								
Critical care	Ventilatory weaning								
	Management of ARDS								
	Fluid management in septic shock								
	Cardiogenic shock								
	ECMO and Impella*								
	POCUS in trauma*								
	POCUS in perioperative period*								
	POCUS in complicated peripartum*								
	POCUS in cardiac arrest*								

To develop POCUS training programmes, it is necessary to define components, modules, and specific items within each module. Before selecting the individual items, it is essential to first identify which modules are relevant.