

Appendix 1: Standards of care required for different levels of paediatric epilepsy surgery centre
Adapted from Gaillard et al Epilepsia. 2020 Dec;61(12):2629-42 ⁴

	Level 1	Level 2 (includes all Level 1)
Age	Children \geq 9 yrs	Children \leq 8 yrs
Etiology	Tumors Focal cortical dysplasia Cavernoma Hippocampal sclerosis Cysticercosis Lesion characteristics: well demarcated	Hippocampal sclerosis associated with other pathology ArterioVenous Malformation Encephalomalacia (prior ischemic or other injury) Postinflammatory Rasmussen encephalitis Hemispheric malformation of cortical development Tuberous sclerosis complex Sturge Weber syndrome Hypothalamic hamartoma Poorly demarcated lesions MRI-negative
Procedures/resections involving	Lesionectomy Temporal lobectomy Amygdala-hippocampectomy Lesions on the convexity away from eloquent cortex VNS	Extratemporal lobar Hemispheric Multifocal Interhemispheric Subcortical Insula Basal brain regions Involving eloquent cortex Lesion (or non lesional) resection Lobectomy Multilobar resection Hemispherectomy Multifocal resection(s) Deep brain stimulation Responsive neurostimulation
Clinical characteristics of children undergoing epilepsy		Encephalopathy Developmental regression/epileptic encephalopathy Associated developmental or medical syndrome Genetic abnormalities Complicated medical problems Ongoing status epilepticus
Competencies		
Personnel	Child neurologist Pediatric epileptologist (1) Pediatric neurosurgeon Pediatric neuroradiologist Anesthesiologist skilled with children Social worker	Child neurologist Pediatric epileptologist (minimum 2) Pediatric neurophysiologist Pediatric (epilepsy) neurosurgeon (minimum 1) preferably trained in functional/stereotactic epilepsy Pediatric neuropsychologist Child psychiatrist Pediatric neuroradiologist Pediatric anesthesiologist Epilepsy neuropathologist Social worker

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		Pediatric neurology nursing Nutritionist/dietician Coordinator
Equipment	Routine EEG Prolonged video EEG (<24 hours) CT MRI, 1.5T	Routine EEG Long-term video-EEG (>24 hours) CT MRI, 3 T fMRI White matter tractography Angiography PET and/or SPECT Some form of source localization capability (not specified between 3D EEG, MEG, or fMRI/EEG) Cortical stimulation mapping (intra- or extraoperative) Invasive recording capability (intraoperative ECoG, subdural EEG, stereo-EEG) Neuronavigation
Facilities	Designated pediatric beds Pediatric Intensive Care Unit (PICU)	Certified EMU (pediatric; not on adult floor/service) Dedicated pediatric services PICU (not general ICU) Rehabilitation facilities
Experience	Evaluate ≥ 100 epilepsy patients/year Operate ≥ 15 resections/year	Evaluate ≥ 225 epilepsy patients/year Operate ≥ 20 resections/year