

PAEDIATRIC PROTOCOLS

Brain-STEALTH

CLINICAL INDICATIONS	Pre op imaging for tumour removal, pre epilepsy surgery, pre embolisation. Usually done as part of tumour series but can be done as one off sequence.	
PATIENT PREPARATION	MRI safety checklist completed and checked Changed into a patient gown and IV line inserted when indicated Position the patient in the Head Coil with earplugs/head pads or headphones. Immobilise patient. Emergency buzzer is essential when non GA.	
PATIENT SET-UP	POSITION	Head First, Supine. Ensure head is as straight as possible and baseline at 90 deg to table top where possible.
	COIL/S	32Ch Head Coil 12Ch Head Coil/Neck Coil if part of brain/spine series
IMAGING PROTOCOL	SEQUENCES	RANGE AND ORIENTATION
	localiser	
	t1_sag_mprage_iso_0.9 or 1mm+C	Positioned to cover the whole brain, including nose and ears (no ANGLE)
		<i>PLEASE CHECK WITH TEAM WHETHER CONTRAST REQUIRED</i>

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CONTRAST MEDIA	Type	Dotarem
	Volume	0.15ml/kg on 3T
	Administration	Hand Injection unless part of perfusion series
	Test Bolus	N/A
	Flow Rate	Hand injection or post Perfusion scan
	Timing	N/A
	Delayed Imaging	N/A

OPTIONAL SEQUENCES	<p>t2_spc_sag_p2_iso_1.0-as per referring team, usually for non enhancing tumour</p> <p>t2_spc_(FLAIR)da-fl_irprep_sag_p2_iso-as per referring team, usually pre dysplasia surgery</p>

POST PROCESSING	<p>Reformat the scan into axial images at 1mm increments. Label clearly Axial STEALTH-DO NOT ANGLE or STRAIGHTEN.</p> <p>If sending to PACs, DO NOT send the last image of the reformats as it is not compatible with the Stealth machine.</p> <p>If burning to CD, again, do not include the last image of the reformats.</p>
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SPECIAL CONSIDERATIONS	<p>Should always be done as part of new Tumour series.</p> <p>Contrast is not always required for pre epilepsy dysplasia Stealth's-check with the team.</p> <p>Younger children not being scanned under general anaesthetic may require a parent or guardian in the room. All accompanying people must complete a separate safety questionnaire and go through all safety checks as per the patient.</p> <p>Small children may require to be scanned under General Anaesthetic.</p>
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