

CT Peds Neck Soft Tissue

Updated
5/4/2024

Indications - mass, lymphadenopathy, swelling, sore throat, difficulty swallowing, foreign body.

NEVER perform a multiphase or without and with exam on a pediatric patient unless approved by a rad.

GENERAL SCAN NOTES

Remove any metal from the imaging field of view.

Use non metallic markers for palpable areas. Do not use metallic skin markers areas due to streak artifact.

Topogram - orbital floor through inferior aspect of main pulmonary artery.

Craniocaudal scan coverage - orbital floor through inferior aspect of main pulmonary artery.

Adjust FOV (field of view) on topogram to smallest without cropping anatomy.

IV Contrast: Weight-based Omnipaque-300, inject at 2 mL/sec, 22-gauge or larger, 90 secs scan delay.

For **GE scanners**, it is essential for the 1st recon thickness on the scanner to match the 1st recon thickness in this protocol book for the prescribed Noise Index to be valid. The 1st recon should generally be the thickest recon in the protocol.

SIEMENS PARAMETERS & RECONS

	Scan Mode	kV	mAs	Care Dose	Care kV & Lvl	Pitch	Acq	Coll	Rot Time	Scan Time
Sensation 16	spiral	120	60	on	NA	0.80	16	1.5	0.75	7.8
Go Up 32	spiral	110	143	on	on 155	1.20	32	0.7	1.0	7.4
Sensation 64	spiral	120	60	on	NA	0.90	24	1.2	1.0	7.7
Definition 64	spiral	100	117	on	on	0.80	16	1.2	1.0	13.0
Go Top 64	spiral	100	182	on	on 155	1.20	64	0.6	1.0	4.3
Drive 128	spiral	100	84	on	on	0.80	32	1.2	1.0	6.5
Force 192	spiral	100	82	on	on	0.80	192	0.6	1.0	4.3

Name of Series	Thick	Interval	Kernel	Window	IR Lvl	Recon Direction
AX SOFT	3.0	3.0	Br40 / B30s	abdomen	3	head/feet
COR SOFT	3.0	3.0	Br40 / B30s	abdomen	3	front/back
SAG SOFT	3.0	3.0	Br40 / B30s	abdomen	3	left/right
AX BONE	3.0	3.0	Br59 / B60s	bone/osteo	3	head/feet

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GE PARAMETERS & RECONS

For **LightSpeed 16** and **Optima 540** scanners:

	Scan Type	SFOV	kV	mA Range	Noise Index	Smart mA	Slice Thick	Beam Coll	Pitch	Speed	Rot Time	Scan Time
0-20 lbs (0-9 kgs)	helical	small	80	65-130	7.07	on	2.5	20	0.938	18.75	0.5	8.2
21-60 lbs (9-27.2 kgs)	helical	small	100	80-160	9.90	on	2.5	20	0.938	18.75	0.5	8.2
61-100 lbs (27.3-45.4 kgs)	helical	large	120	95-190	14.14	on	2.5	20	0.938	18.75	0.5	8.2
101-200 lbs (45.5-90.7 kgs)	helical	large	120	110-220	16.97	on	2.5	20	0.938	18.75	0.5	8.2
>200 lbs (>90.8 kgs)	helical	large	120	125-300	21.21	on	2.5	20	0.938	18.75	0.5	8.2

For **LightSpeed & Discovery VCT 64** scanners:

0-20 lbs (0-9 kgs)	helical	ped body	80	65-130	7.07	on	2.5	40	0.938	39.37	0.5	4.1
21-60 lbs (9-27.2 kgs)	helical	ped body	100	80-160	9.90	on	2.5	40	0.938	39.37	0.5	4.1
61-100 lbs (27.3-45.4 kgs)	helical	med body	120	95-190	14.14	on	2.5	40	0.938	39.37	0.5	4.1
101-200 lbs (45.5-90.7 kgs)	helical	large body	120	110-220	16.97	on	2.5	40	0.938	39.37	0.5	4.1
>200 lbs (>90.8 kgs)	helical	large body	120	125-300	21.21	on	2.5	40	0.938	39.37	0.5	4.1

Name of Series	Thickness	Interval	Recon Algorithm	Window Width/Level	Recon Direction
AX SOFT	2.5	2.5	std full	400/40	head/feet
COR SOFT	2.5	2.5	std full	400/40	front/back
SAG SOFT	2.5	2.5	std full	400/40	left/right
AX BONE	2.5	2.5	bone full	2500/480	head/feet

Must be first recon.

PHILIPS PARAMETERS & RECONS

	Scan Mode	kV	Avg mAs	Dose Index	3D Dose	Pitch	Detect	Colli	Rot Time	Scan Time
Incisive 128	helical	100	137	22	on	0.80	64	0.625	0.50	3.1

Name of Series	Thick	Interval	Filter	Window	iDose	Recon Direction
AX SOFT	3.0	3.0	B	soft tissue neck	3	head/feet
COR SOFT	3.0	3.0	B	soft tissue neck	3	front/back
SAG SOFT	3.0	3.0	B	soft tissue neck	3	left/right
AX BONE	3.0	3.0	YC	bone	3	head/feet