

CT Chest Veran Navigational

Updated
5/1/2024

Indications - pre navigational biopsy of a lung nodule, mass, lesion or opacity and will be ordered specifically as Veran protocol by Pulmonology.

Use CT Chest without Contrast charge.

GENERAL SCAN NOTES

Remove any metal from the imaging field of view.

Have patient lift chin up.

Have the patient cough a few times to clear secretions. This reduces incidence of small lung nodules.

Topogram - lung apices through diaphragm (obtained during end inspiration).

Craniocaudal scan coverage - lung apices through adrenal glands on both phases (obtained during end inspiration).

Use smallest FOV without cropping anatomy or excluding vPad. Use the same FOV for both scans.

The vPad tracker should be clearly visible in the FOV.

The patients arms are **over his/her head** for the **end inspiratory phase**.

The patients arms are **by his/her side** for the **end expiratory phase**.

IV Contrast: not given for this protocol.

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SIEMENS PARAMETERS & RECONS

For the **Supine End Inspiration** and **Supine End Expiration** phases:

	Scan Mode	kV	Eff mAs	Care Dose	Care kV & Lvl	Pitch	Acq	Coll	Rot Time	Scan Time
Sensation 16	spiral	120	100/150	off	NA	1.00	16	0.75	0.5	12.5
Go Up 32	spiral	120	100/150	off	off	1.00	32	0.6	0.5	7.8
Sensation 64	spiral	120	105/160	off	NA	1.00	64	0.6	0.5	7.8
Definition 64	spiral	120	105/160	off	off	1.00	64	0.6	0.5	7.8
Go Top 64	spiral	120	105/160	off	off	1.00	64	0.6	0.5	3.9
Drive 128	spiral	120	110/170	off	off	1.00	128	0.6	0.5	3.9
Force 192	spiral	120	110/170	off	off	1.00	128	0.6	0.5	3.9

Use lower mAs for BMI ≤ 25 or higher mAs for BMI > 25 .

Name of Series	Thick	Interval	Kernel	Window	IR Lvl	Recon Direction
AX LUNG	3.0	3.0	Br57 / B70f	lung	none	head/feet
AX SOFT	3.0	3.0	Br40 / B41f	mediastinum	none	head/feet
COR SOFT	3.0	3.0	Br40 / B41f	mediastinum	none	front/back
SAG SOFT	3.0	3.0	Br40 / B41f	mediastinum	none	left/right
TLC INSP	0.75	0.5	Qr36 / B35f	mediastinum	none	head/feet
AX MIPS	8.0	3.0	Br40 / B41f	lung	none	head/feet

Veran specific recon.

TLC EXP	0.75	0.5	Qr36 / B35f	mediastinum	none	head/feet
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Veran specific recon.

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GE PARAMETERS & RECONS

For the Supine End Inspiration and Supine End Expiration phases:

	Scan Type	SFOV	kV	Manual mA	Smart mA	Slice Thick	Beam Coll	Pitch	Speed	Rot Time	Dose Red	ASIR	Scan Time
LS 16	helical	large	120	180/270	off	0.625	10	1.375	13.75	0.5	NA	NA	10.9
Opt 540	helical	large	120	180/270	off	0.625	10	1.375	13.75	0.5	NA	NA	10.9
LS VCT 64	helical	large body	120	180/270	off	0.625	40	0.984	39.37	0.5	off	none	3.8
Disc VCT 64	helical	large body	120	180/270	off	0.625	40	0.984	39.37	0.5	NA	NA	3.8

Use 180 mAs for BMI ≤25 or 270 mAs for BMI >25.

Name of Series	Thickness	Interval	Recon Algorithm	Window Width/Level	Recon Direction
TLC INSP	0.625	0.5	std full	400/40	head/feet
AX LUNG	2.5	2.5	lung	1600/-600	head/feet
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 MIPS	8.0	3.0	std full	1600/-600	head/feet

**This must be the first recon.
Veran specific recon.**

TLC EXP	0.625	0.5	std full	400/40	head/feet
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Veran specific recon.

PHILIPS PARAMETERS & RECONS

For the Supine End Inspiration and Supine End Expiration phases:

	Scan Mode	kV	Manual mA	3D Dose	Pitch	Detect	Colli	Rot Time	Scan Time
Incisive 128	helical	120	130/190	off	0.923	64	0.625	0.5	4.1

Use 130 mAs for BMI ≤ 25 or 190 mAs for BMI >25.

Name of Series	Thick	Interval	Filter	Window	iDose	Recon Direction
AX LUNG	3.0	3.0	YA	lung	none	head/feet
AX SOFT	3.0	3.0	B	mediastinum	none	head/feet
COR SOFT	3.0	3.0	B	mediastinum	none	front/back
SAG SOFT	3.0	3.0	B	mediastinum	none	left/right
TLC INSP	0.67	0.5	B	mediastinum	none	head/feet
AX MIPS	8.0	2.0	B	lung	none	head/feet

Veran specific recon.

TLC EXP	0.67	0.5	B	mediastinum	none	head/feet
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