

CT Sinuses

Updated 09/26/24

Reviewed 05/14/25

Indications - acute/chronic sinusitis, rhinitis, runny nose, sinus/nasal mass, trauma, pre surgical evaluation.

GENERAL SCAN NOTES

Remove any metal from the imaging field of view (particularly earrings).

Scan above any dental work to avoid artifact.

Topogram - bottom of mandibles through top of skull.

IV Contrast: 100 mL Omnipaque-300, inject at 2.5 mL/sec, 50 secs scan delay.

Recon FOVs (send for all exams not just IGS):

Routine Recons - above frontal sinuses to hard palate (top/bottom coverage), tip of nose to clivus (front/back coverage) and zygomatic arch to zygomatic arch (left/right coverage)

Axial Thins - top of skull to horizontal portion of mandibles (top/bottom coverage), tip of nose to back of skull (front/back coverage) and external ear to external ear (left/right coverage)

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	0.55	16	0.75	1.0	17.4
Go Up 32	spiral	Sn 110	236	on	on 50	0.55	32	0.7	1.0	9.3
Sensation 64	spiral	120	70	on	NA	0.90	64	0.6	1.0	6.7
Definition 64	spiral	120	50	on	on	0.80	64	0.6	1.0	7.5
Go Top 64	spiral	Sn 100	581	on	on 50	0.55	64	0.6	1.0	5.4
Drive 128	spiral	120	35	on	on	0.80	128	0.6	1.0	3.7
Force 192	spiral	120	35	on	on	0.80	192	0.6	1.0	2.5

Name of Series	Thick	Interval	Kernel	Window	IR Lvl	Recon Direction
AX SOFT	3.0	3.0	Hr40 / H31s	abdomen	3	feet/head
AX BONE	3.0	3.0	Hr59 / H70s	bone/sinus	3	feet/head
COR BONE	3.0	3.0	Hr59 / H70s	bone/sinus	3	front/back
SAG BONE	3.0	3.0	Hr59 / H70s	bone/sinus	3	left/right
AX SOFT THINS	1.0	1.0	Hr40 / H31s	abdomen	3	feet/head
AX BONE THINS	1.0	1.0	Hr59 / H70s	bone/sinus	3	feet/head

Send the above recons on the pre contrast scan (if without only) or on the post contrast scan (if IV given).

Send only the following recon on the pre contrast scan (if without and with).

AX SOFT	3.0	3.0	Hr40 / H31s	abdomen	3	feet/head
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CT Sinuses

GE PARAMETERS & RECONS

	Scan Type	SFOV	kV	mA Range	Noise Index	Smart mA	Slice Thick	Beam Coll	Pitch	Speed	Rot Time	Dose Red	ASIR	Scan Time
LS 16	helical	head	120	50-200	5.00	on	2.5	10	1.375	13.75	0.5	NA	NA	4.2
Opt 540	helical	head	120	50-200	5.00	on	2.5	10	1.375	13.75	0.5	NA	NA	4.2
LS VCT 64	helical	head	120	50-330	10.00	on	2.5	40	1.375	55.00	0.5	20	20	1.0
Disc VCT 64	helical	head	120	50-330	10.00	on	2.5	40	1.375	55.00	0.5	NA	NA	1.0

Name of Series	Thickness	Interval	Recon Algorithm	Window Width/Level	Recon Direction
AX SOFT	2.5	2.5	std full	400/40	feet/head
AX BONE	2.5	2.5	bone full	2500/480	feet/head
COR BONE	2.5	2.5	bone full	2500/480	front/back
SAG BONE	2.5	2.5	bone full	2500/480	left/right
AX SOFT THINS	0.625	0.625	std full	400/40	feet/head
AX BONE THINS	0.625	0.625	bone plus full	2500/480	feet/head

Must be first recon.

Send the above recons on the pre contrast scan (if without only) or on the post contrast scan (if IV given).

Send only the following recon on the pre contrast scan (if without and with).

AX SOFT PRE	2.5	2.5	std full	400/40	feet/head
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PHILIPS PARAMETERS & RECONS

	Scan Mode	kV	Avg mAs	Dose Index	3D Dose	Pitch	Detect	Colli	Rot Time	Scan Time
Incisive 128	helical	120	45	20	off	0.70	64	0.625	0.50	2.1

Name of Series	Thick	Interval	Filter	Window	iDose	Recon Direction
AX SOFT	3.0	3.0	UB	abdomen	2	feet/head
AX BONE	3.0	3.0	YC	bone	2	feet/head
COR BONE	3.0	3.0	YC	bone	2	front/back
SAG BONE	3.0	3.0	YC	bone	2	left right
AX SOFT THINS	1.0	1.0	UB	abdomen	2	feet/head
AX BONE THINS	1.0	1.0	YC	bone	2	feet/head

Send the above recons on the pre contrast scan (if without only) or on the post contrast scan (if IV given).

Send only the following recon on the pre contrast scan (if without and with).

AX SOFT PRE	3.0	3.0	UB	abdomen	2	feet/head
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