

CTA Watchman

Updated 05/06/24

Reviewed 05/14/25

Indications - pre and post operative evaluation for Watchman left atrial appendage occlusion.

This protocol includes patients in the Champion and Option clinical studies.

Bill under CT Angio Cardiac w/ Contrast charge. Do not use CT Angio Coronary w/ Contrast charge.

GENERAL SCAN NOTES

Move the patient's arms over his/her head if possible. Remove any metal from the imaging field of view.

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

Craniocaudal scan coverage - top of aortic arch through diaphragm (**just have patient stop breathing**).

Adjust FOV (field of view) on topogram to smallest without cropping anatomy (target FOV 150-220 mm).

EKG gating:

Pre contrast phase - **prospective**.

Cardiac phase - **prospective** preferred (30-60% RR interval) for the angio phase.

Can use retrospective for patients with high or irregular heart rates.

Delay phase - **prospective**.

IV Contrast:

Administer weight-based Omnipaque-350 - **1 mL/kg** up to **100 mL**.

Inject at **5 mL/sec** followed by 40 mL saline flush, 20-gauge or larger in AC fossa.

Cardiac phase - bolus track off **left atrium** triggered at **150 HU**.

Delay phase - **50 secs** from start of injection.

SIEMENS PARAMETERS & RECONS

For the **Pre Contrast** phase:

	Scan Mode	kV	mAs	Care Dose	Care kV & Lvl	Pitch	Feed	Acq	Coll	Rot Time	Scan Time
Go Top 64	spiral	120	62	on	on 80	1.20		64	0.6	0.33	1.1
Drive 128	spiral	120	80	on	on		34.5	32	1.2	0.285	1.2
Force 192	sequential	120	80	on	on		38	38	1.2	0.25	1.0

For the **Cardiac** phase:

Go Top 64	spiral	100	65	on	on 64	0.31		64	0.6	0.33	22.2
Drive 128	spiral	100	282	on	on	0.17		128	0.6	0.285	6.5
Force 192	sequential	100	288	on	on		38.5	152	0.6	0.25	1.0

For the **Delay** phase:

Go Top 64	spiral	100	65	on	on 64	0.31		64	0.6	0.33	22.2
Drive 128	spiral	100	282	on	on	3.40		128	0.6	0.285	0.3
Force 192	sequential	100	288	on	on		38.5	152	0.6	0.25	1.0

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PRE CONTRAST PHASE

Name of Series	Thick	Interval	Kernel	Window	IR Lvl	Recon Direction
AX SOFT PRE	3.0	3.0	Br40	mediastinum	2	head/feet
AX LUNG PRE	3.0	3.0	Bl59	lung	2	head/feet

CARDIAC PHASE

AX HEART THINS	0.75	0.6	Br40	cardiac	3	head/feet
AX SOFT	3.0	3.0	Br40	mediastinum	3	head/feet
COR SOFT	3.0	3.0	Br40	mediastinum	3	front/back
SAG SOFT	3.0	3.0	Br40	mediastinum	3	left/right
AX LUNG	3.0	3.0	Bl59	lung	3	head/feet

DELAY PHASE

AX DELAY THINS	0.75	0.6	Br40	cardiac	3	head/feet
AX DELAY	3.0	3.0	Br40	mediastinum	3	head/feet