

Protocol Name:		PARATHYROID CT or PARATHYROID 4D CT SCAN	
		Dr. Sadler and Dr. Kim are the only readers for this exam**	
INDICATIONS:	Evaluation of the parathyroid. Should only be done on patients with a high calcium and a high parathyroid hormone.	PATIENT POSITIONING AND SCAN AREA	Patient supine. Head in holder. Rolled towel between shoulder blades. Landmark at mid sternum. Noncontrast cuts are taken from the hyoid bone to clavicular head. Arterial and venous cuts are taken from the angle of the mandible to the corina. No gantry tilt.
IV CONTRAST:	75 cc of Ultra 300 followed by 25 ml of saline. 4cc/sec. 20ga or better IV in right AC.		
GENERAL EXAM GUIDELINES:	1.25mm axial images in 3 phases –Std. recon 400ww/30wl with 2.5x2.5 avg sag and cor recons from 0.625 images on arterial and venous phase. 200 DFOV.	ADDITIONAL POST PROCESSING:	None
TRIGGER OR CONTRAST DELAY:	Non contrast then 25 second delay and 80 second delay (50 seconds after the arterial phase set in the scanner) May need to use smart prep if poor cardiac output is known.	SEND EXAM:	Send scout, 1.25mm noncontrast, arterial and venous axials, and Sag, and Cor from arterial and venous phase, 45 degree oblique arterial and venous, and dose report to iSite.
TECHNIQUE GUIDELINES:	120 kvp. Auto mA & Smart mA on.	BILL AS:	Neck with/without contrast

VCT SCANNER WITH ASIR PROTOCOL

Scan Type	Start Loc	End Loc	Thick Speed	Interval (mm)	Gantry Tilt	SFOV	kv	ma	DFOV	Recon1	Recon2	Recon3	CTDI vol
Helical Full 0.4 sec rotation	S100.0	I100.0	0.625 20.62 0.516:1	0.625	S0.0	Small Body	120	6.00 8.00~ Non 400 8.00~	20.0	0.625mm Std 400ww 30wl SS30	1.25 Std arterial 400ww 30wl SS30	1.25 venous 400ww 30wl SS30	Avg 13-30

Only providers from ENT (EAR, NOSE & THROAT) should be ordering.

Dr. Jared Sadler’s personal cell phone number (503) 689-5159 if there are technologist questions about the exam protocol.

****TIP:** Roll up a towel and place it between patient’s shoulder blades to depress shoulders out of the way. Make sure patient doesn’t swallow, cough or move during scan (breath hold on to assist with this). Saline Chaser necessary to avoid streak artifact.