

Delegation Protocol Number: 216

Delegation Protocol Title:

Endocrine Surgery Pre and Post-Op Lab and Imaging Orders - Adult/Pediatric - Ambulatory

Delegation Protocol Applies To:

All UW Health Endocrine Surgery Clinics

Target Patient Population:

All adult and pediatric patients who are seen at a UW Health Endocrine Surgery Clinic for their pre- and post-op visits.

Delegation Protocol Champion: Rebecca Sippel, MD - Endocrine Surgery

Delegation Protocol Workgroup Members:

Sarah Schaefer, NP - Department of Surgery, Endocrine Surgery Jen Wisotzke, RN Clinic Manager – Department of Surgery, Endocrine Surgery

Delegation Protocol Reviewer(s):

David Yang, MD – Department of Pathology and Laboratory Medicine

Responsible Department:

Department of Surgery, Endocrine Surgery

Purpose Statement:

To delegate authority from the Endocrine surgery provider to Registered Nurses (RNs) and Medical Assistants (MAs) to order standard Preoperative and Postoperative labs and imaging for patients who are seen at any of the UW Health Endocrine Surgery Clinics for their pre- and post-operative visits in order to increase efficiency and expedite patient care.

Who May Carry Out This Protocol:

RNs and MAs

Guidelines for Implementation:

- 1. This protocol is initiated when a patient is scheduled for their pre- and post-operative visits at any UW Health Endocrine Surgery Clinic.
- 2. RNs and MAs will conduct a chart review to identify the need for the ordering of Pre-Op labs and imaging.
- 3. RNs and MAs will use the Pre-Op Labs and Imaging Guide (Table 1) to determine which orders need to be entered.
 - 3.1. Pre-Op labs and imaging orders will be placed using the OP Endocrine Pre- and Post-Op Lab and Imaging Orders Delegation Protocol Adult/Pediatric Ambulatory Smart Set [8142].
 - 3.2. Unless otherwise specified within Table 1, all Pre-Op labs and imaging are due within 1 day prior to the scheduled surgery date.
- 4. RNs and MAs will conduct a chart review to identify the need for the ordering of Post-Op labs and imaging.

- 5. RNs and MAs will use the Post-Op Labs and Imaging Guide (Table 2) to determine which orders need to be entered and will ensure that there are no duplicated orders.
 - 5.1. Post-Op labs and imaging orders will be placed using the OP Endocrine Pre- and Post-Op Lab and Imaging Orders Delegation Protocol Adult/Pediatric Ambulatory Smart Set [8142].
- 6. Post-Op labs and imaging orders can be placed anytime, but all orders required for the next 6 months must be entered before the patient's first Post-Op appointment.
- 7. RNs and MAs will associate the Diagnoses listed on the Pathology Report and/or request for Endocrine Surgery Scheduling order, to complete the labs and/or imaging orders.
- 8. All orders will be signed using the order mode, Cosigned Required, Protocol/ Policy.

Order Mode:

Cosign Required, Protocol/Policy

Reference(s):

- 1. East Madison Hospital Preop Program Preoperative Testing Guidelines found on Uconnect
- 2. UWHC Pass Suggested Preop Testing Grid found on Uconnect
- 3. Ross DS, Burch HB, Cooper DS, et al. 2016 American Thyroid Association Guidelines for Diagnosis and Management of Hyperthyroidism and Other Causes of Thyrotoxicosis. *Thyroid*. 2016;26(10):1343-1421. doi:10.1089/thy.2016.0229.
- Haugen BR, Alexander EK, Bible KC, et al. 2015 American Thyroid Association Management Guidelines for Adult Patients with Thyroid Nodules and Differentiated Thyroid Cancer: The American Thyroid Association Guidelines Task Force on Thyroid Nodules and Differentiated Thyroid Cancer. *Thyroid*. 2016;26(1):1-133. doi:10.1089/thy.2015.0020.
- 5. Francis GL, Waguespack SG, Bauer AJ, et al. Management Guidelines for Children with Thyroid Nodules and Differentiated Thyroid Cancer. *Thyroid*. 2015;25(7):716-759. doi:10.1089/thy.2014.0460.
- 6. Wells SA, Asa SL, Dralle H, et al. Revised American Thyroid Association Guidelines for the Management of Medullary Thyroid Carcinoma. *Thyroid*. 2015;25(6):567-610. doi:10.1089/thy.2014.0335.
- Lenders JWM, Duh Q-Y, Eisenhofer G, et al. Pheochromocytoma and Paraganglioma: An Endocrine Society Clinical Practice Guideline. *The Journal of Clinical Endocrinology & Metabolism*. 2014;99(6):1915-1942. doi:10.1210/jc.2014-1498.
- Funder JW, Carey RM, Mantero F, et al. The Management of Primary Aldosteronism: Case Detection, Diagnosis, and Treatment: An Endocrine Society Clinical Practice Guideline. *The Journal of Clinical Endocrinology & Metabolism*. 2016;101(5):1889-1916. doi:10.1210/jc.2015-4061.
- 9. Wilhelm SM, Wang TS, Ruan DT, et al. The American Association of Endocrine Surgeons Guidelines for Definitive Management of Primary Hyperparathyroidism. *JAMA Surgery*. 2016;151(10):959. doi:10.1001/jamasurg.2016.2310.

Collateral Documents/Tool(s):

- 1. Pre-Op Labs and Imaging Guide (Table 1)
- 2. Post-Op Labs and Imaging Guide (Table 2)
- 3. OP Endocrine Pre-TAC and Post-Op Lab and Imaging Orders Delegation Protocol Adult/Pediatric Ambulatory Smart Set [8142]

Approved By:

UW Health Ambulatory Protocol Committee: October 2019 UW Health Clinical Knowledge Management Council: October 2019 UWHC Medical Board: November 2019 UW Health Chief Clinical Officer: November 2019

Table 1: Pre-Op Labs and Imaging Guide

PARATHYROID		
Indication	Orders	Comments
 Parathyroidectomy (with or without) Parathyroid Autotransplant Diagnosis: Hyperparathyroidism Hyperparathyroidism - Primary Hyperparathyroidism - Secondary Hyperparathyroidism - Tertiary Hypercalcemia Vitamin D Deficiency 	 Calcium [CA] Creatinine [CRET] PTH [PTH] Vitamin D, 25 Hydroxy (Vitamin D Status [VITD] OR Vitamin D, 25 Hydroxy by HPLC [HCLCD25] 	 All: Unless obtained within the last 3 Months ONLY for Patients on Ergocalciferol, Vit 2.
 Parathyroid Autotransplant ONLY 	NONE	• N/A

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Table 1: Pre-Op Labs and Imaging Guide (continued

	THYROID	
Indication	Orders	Comments
 Total Thyroidectomy Thyroid Lobectomy Completion Thyroidectomy Completion Thyroidectomy Fine Needle Aspiration Pathology Showed: Atypia of Undetermined Significance (AUS) Atypical Fine Needle Aspiration (AFNA) Follicular Lesion of Undetermined Significance (FLUS) Follicular Neoplasm Hurthle Cell Neoplasm Non-Diagnostic Fine Needle Aspiration Diagnosis: Anaplastic Thyroid Carcinoma Goiter Multinodular Goiter Hashimotos Lymphocytic Thyroiditis Medullary Thyroid Cancer Multiple Thyroid Nodules Thyroidottis Thyroid Nodule 	 Calcium [CA] Free T4 [FT4] PTH [PTH] TSH [TSH] 	All: Unless obtained within the last 3 Months
 Vitamin D Deficiency Total Thyroidectomy Thyroid Lobectomy Completion Thyroidectomy 	 Calcium [CA] Free T3 [FT3] Free T4 [FT4] 	• FT3, FT4, TSH: Unless obtained within the last 2 Weeks
Diagnosis: • Graves Disease • Hyperthyroidism • Toxic Nodule • Vitamin D Deficiency	 Parathyroid Hormone [PTH] Thyroid-Stimulating Hormone [TSH] Vitamin D, 25 Hydroxy (Vitamin D Status [VITD]) OR Vitamin D, 25 Hydroxy by HPLC [HCLCD25] 	 Calcium, PTH, Vitamin D, 25 Hydroxy: Unless obtained within the last 3 months ONLY for Patients on Ergocalciferol, Vit 2.

Table 1: Pre-Op Labs and Imaging Guide (continued)

THYROID				
Indication	Orders	Comments		
 Total Thyroidectomy Thyroid Lobectomy Completion Thyroidectomy Fine Needle Aspiration Pathology Showed: Papillary Thyroid Cancer Suspicious for Papillary Thyroid Cancer 	 Calcium [CA] Free T4 [FT4] Parathyroid Hormone [PTH] Thyroglobulin with Reflex to LC-MS/MS OR CIA (Includes Thyroglobulin AB) [THYROG] Thyroid-Stimulating Hormone [TSH] 	 All: Unless obtained within the last 3 Months <u>Note:</u> If Completion Thyroidectomy is less than 3 months status post Thyroid Lobectomy, labs are required to be completed. 		
Diagnosis: Papillary Thyroid Cancer Thyroid Nodule Vitamin D. Deficiency 	 Thyroglobulin Antibody [XATHYG] 	 Additional lab order - ONLY for labs that are drawn at an outside facility 		
 Central Neck Dissection Modified Radical Neck Dissection Neck Dissection Diagnosis: Hurthle Cell Cancer Medullary Carcinoma of Thyroid 	 Calcium [CA] Parathyroid Hormone [PTH] 	All: Unless obtained within the last 3 Months		
 Papillary Thyroid Cancer Thyroid Cancer 				

ADRENAL		
Indication	Orders	Comments
 Adrenalectomy Carcinoid Tumors Diagnosis: Adrenal Mass Cushing's Syndrome Hyperaldosteronism Paraganglioma Pheochromocytoma 	 Blood Urea Nitrogen [BUN] CBC with Differential [CBC] Creatinine [CRET] Electrolytes [LYTE] Antibody Screen [ABSCR] <u>OR</u> Extended Type and Screen [ETS] 	 All: Unless obtained within the last 2 Weeks Antibody Screen to be ordered if surgery is > 30 days out Extended Type and Screen to be ordered if surgery is within the next 30 days Extended Type and Screen must be drawn at a UW Health Lab

Table 1: Pre-Op Labs and Imaging Guide (continued)
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ADDITIONAL ORDERS		
Indication	Orders	Comments
RHEUMATOID ArthritisDown Syndrome	X-Ray Cervical Spine 2-3 Views [ABSCR]	 Not required for other arthritic types. Unless obtained within the last
 Diagnosis: Down Syndrome Rheumatoid Arthritis Pre-Op Testing 		year.

Table 2: Post-Op Labs and Imaging Guide

PARATHYROID			
Indication	Orders	Comments	
 Parathyroidectomy Diagnosis: Hyperparathyroidism Hyperparathyroidism Hyperparathyroidism Primary Hyperparathyroidism Secondary Hyperparathyroidism Tertiary S/P Parathyroidectomy 	 Calcium [CA] Parathyroid Hormone [PTH] 	 All: Due within 1 Week All: Due <u>again</u> in 6 Months 	
 Parathyroid Autotransplant Diagnosis: Hyperparathyroidism Hyperparathyroidism Hyperparathyroidism Primary Hyperparathyroidism Secondary Hyperparathyroidism Tertiary S/P Parathyroidectomy 	Calcium [CA] Parathyroid Hormone [PTH]	All: Due within 1 Week	
 Postoperative Hypercalcemia following Parathyroidectomy Diagnosis: Hyperparathyroidism Hyperparathyroidism Primary Hyperparathyroidism Secondary Hyperparathyroidism Tertiary S/P Parathyroidectomy 	 Calcium [CA] Parathyroid Hormone [PTH] 	• All: Due in 2-3 Weeks	

Table 2: Post-Op Labs and Imaging Guide (continued)

PAPILLARY, FOLLICULAR, HURTHLE CELL THYROID CANCER, NIFTP PATHOLOGIES			
Indication	Orders	Comments	
 Completion Thyroidectomy Thyroid Lobectomy (If history of previous thyroid 	Calcium [CA] Parathyroid Hormone [PTH]	All: Due within 1 Week	
Total Thyroidectomy	 Thyroid-Stimulating Hormone [TSH] Thyroglobulin with Reflex to 	 All: Due in 6-8 Weeks All: Due <u>again</u> in 6 Months 	
 Diagnosis: Papillary Thyroid Cancer S/P Partial thyroidectomy 	LC-MŠ/MS OR CIA (Includes Thyroglobulin AB) [THYROG]		
 S/P Total Thyroidectomy Follicular Thyroid Cancer Hurthle Cell Carcinoma Noninvasive Follicular 	Thyroglobulin Antibody [XATHYG]	 Additional lab order - ONLY for labs that are drawn at an outside facility 	
Thyroid Neoplasms with Papillary-like Nuclear features (NIFTP)	Thyroid/Neck Ultrasound	Due in 6 Months	

PAPILLARY, FOLLICULAR, HURTHLE CELL THYROID CANCER, NIFTP PATHOLOGIES - LOBECTOMY		
Indication	Orders	Comments
Thyroid Lobectomy	Thyroid-Stimulating Hormone [TSH]	 All: Due in 6-8 Weeks All: Due <u>again</u> in 6 Months
Diagnosis:	 Thyroglobulin with Reflex to 	
 Papillary Thyroid Cancer 	LC-MS/MS OR CIA (Includes	
 S/P Partial thyroidectomy S/P Total Thyroidectomy 	Thyroglobulin AB) [THYROG]	
o Follicular Thyroid Cancer	Thyroglobulin Antibody	Additional lab order - ONLY
• Hurthle Cell Carcinoma	[XATHYG]	for labs that are drawn at an
 Noninvasive Follicular 		outside facility
Thyroid Neoplasms with		+
Papillary-like Nuclear features (NIFTP)	 Thyroid/Neck Ultrasound 	Due in 6 Months

Table 2: Post-Op Labs and Imaging Guide (continued)

BENIGN & OTHER THYROID CANCER LOBECTOMY				
Indication	Orders	Comments		
Thyroid Lobectomy	 Thyroid-Stimulating Hormone [TSH] 	• Due in 6-8 Weeks		
 Diagnosis: Anaplastic Thyroid Carcinoma Goiter Multinodular Goiter Hashimotos Lymphocytic Thyroiditis Medullary Thyroid Cancer Multiple Thyroid Nodules S/P Partial thyroidectomy S/P Total Thyroidectomy Lymphoma of Thyroid Gland Thyroiditis Thyroid Nodule 				

BENIGN & OTHER THYROID CANCER TOTAL				
Indication	Orders	Comments		
 Completion Thyroidectomy Thyroid Lobectomy (If history of previous thyroid surgery) Total Thyroidectomy 	 Calcium [CA] Parathyroid Hormone [PTH] 	All: Due within 1 Week		
Diagnosis:	Thyroid-Stimulating Hormone [TSH]	• Due in 6-8 Weeks		
 Anaplastic Thyroid Carcinoma Goiter Multinodular Goiter Hashimotos Lymphocytic Thyroiditis Medullary Thyroid Cancer Multiple Thyroid Nodules S/P Partial thyroidectomy S/P Total Thyroidectomy Lymphoma of Thyroid Gland Thyroiditis Thyroid Nodule 				

Table 2: Post-Op Labs and Imaging Guide (continued)

GRAVES PATHOLOGY			
Indication	Orders	Comments	
 Completion Thyroidectomy Thyroid Lobectomy (If history of previous thyroid 	 Calcium [CA] Parathyroid Hormone [PTH] 	All: Due within 1 Week	
surgery) • Total Thyroidectomy	 Free T4 [FT4] Thyroid-Stimulating Hormone [TSH] 	All: Due in 6-8 Weeks	
Diagnosis: o Graves Disease			
Thyroid Lobectomy	Free T4 [FT4]Thyroid-Stimulating Hormone	All: Due in 6-8 Weeks	
Diagnosis: o Graves Disease	[TSH]		

CENTRAL NECK & MODIFIED RADICAL NECK DISSECTION		
Indication	Orders	Comments
 Central Neck Dissection ONLY Modified Radical Neck Dissection 	 Calcium [CA] Parathyroid Hormone [PTH] 	All: Due within 1 Week
Diagnosis: • Anaplastic Thyroid Carcinoma • Follicular Thyroid Cancer • Hurthle Cell Carcinoma • Medullary Thyroid Cancer • Papillary Thyroid Cancer • Lymphoma of Thyroid Gland • S/p neck dissection		

ADRENAL			
Indication	Orders	Comments	
Adrenalectomy	 Metanephrines, Free [HCPMTNP] 	Due in 6 Months	
Diagnosis: o Pheochromocytoma			
Adrenalectomy Diagnosis:	Aldosterone [XALDST]Renin Activity [XRENAC]	Due: in 3 Months	
 Hyperaldosteronism 	Potassium [K]	Due within 1 Week	