

(6): Endocrine interactive lecture





COLOR GUIDE: • Females' Notes • Males' Notes • Important • Additional

Objectives

1. To answer the 4 questions

- i. What is the study?
- ii. What is the agent used?
- iii. What are the imaging findings?
- iv. What is the most likely diagnosis?

١

2. Some extra questions on the pictures



۲

Multinodular toxic goiter (Plumer's Disease) Enzyme defects (Dyshormonogenesis).(imp) Iodine starvation (Iodine deficiency)

	What is the study? Nuclear scan of the thyroid What is the agent used? Tc-99m Pertechnetate What are the imaging findings? Cold nodule in the left thyroid lobe What is the most likely diagnosis? lymphy What are the chances of malignancy? 15%-20% Papillary Madellary Folecular Anaplastic
ALCHAMLAS MUNIRA S 800738 MARKER*	 What is the study? Nuclear scan of the thyroid,, What is the agent used? Tc-99m Pertechnetate What are the imaging findings? Cold nodule in the left thyroid lobe What is the most likely diagnosis? Mass on the left side pushing the gland laterally Extra: What does the patient present with clinically? Dyspina because of tracheal deviation
Elevated TSH and low T4	What is the study? Nuclear scan of the thyroid,(for a child) What is the agent used? Tc-99m Pertechnetate What are the imaging findings? Absent thyroid gland What is the most likely diagnosis? Agenesis What is the causes of hypothyrodisim?
High PTH and High Ca	 What is the study? Parathyriod scan What is the agent used? Tc-99m Sestamibi (Dual Phase) What are the imaging findings? Right lower parathyroid adenoma What is the most likely diagnosis? Agenesis Extra: What is the causes of hypothyrodisim?

endocrine interactive lecture



What is the study? Parathyriod scan What is the agent used? Tc-99m Sestamibi (Dual Phase) What are the imaging findings? False negative because it is from the clear cells from the miatochonderia What is the most likely diagnosis? Parathyroid adenoma Extra: How can we conform the presences or absence of the abnormality?



abdominal mass



٤

What is the study? Parathyriod scan What is the agent used? Tc-99m Sestamibi (Dual Phase) (SPECT CT) What are the imaging findings? Adenoma in the anterior mediastinum What is the most likely diagnosis? Parathyroid adenoma



What is the study? (SPECT CT) What is the agent used? I-123/131 MIBG What are the imaging findings? Increased uptake of the right adrenal gland What is the most likely diagnosis? Phyochromocytoma What are the causes of secondary HTN? Renal artery stenosis

What is the study? Spect CT What is the agent used? I-123/131 MIBG What are the imaging findings? Focal area of increased up take in the right med abdomen(right para spinal) What is the most likely diagnosis? Neuroblastoma

endocrine interactive lecture



٥

endocrine interactive lecture



endocrine interactive lecture



endocrine interactive lecture



٨

endocrine interactive lecture



What is the study? PET-CT What is the agent used? FDG What are the imaging findings?

What is the most likely diagnosis? Esophageal cancer with metastasis above and below the diaphragm

432 Radiology Team Leaders

Eman AlBedaie Emansaleh202@gmail.com

