





Thyroid and Parathyroid



Imaging Studies

Computed tomography (CT)

I odinated contrast may preclude RAI for months

Magnetic resonance imaging (MRI)

Excellent soft tissue definition

Nodal definition

Positron emission tomography (PET)

Rarely used as most Thyroid CA doesn't show uptake

Ultrasound

Helpful in obtaining a biopsy and characterizing

Radioactive lodine scan

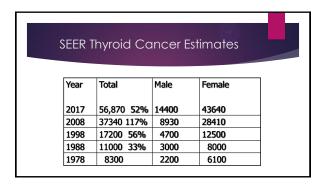
Very rarely used for tumor evaluation

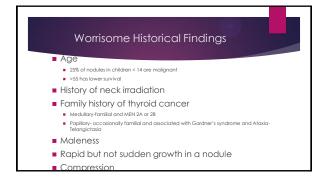
Overview of Thyroid Cancer

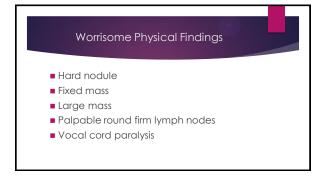
> 2-3 times more common in women

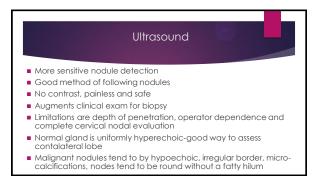
Much higher risk in those with radiation to HN

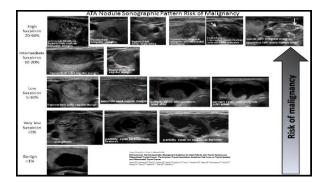
Peak incidence is age 50





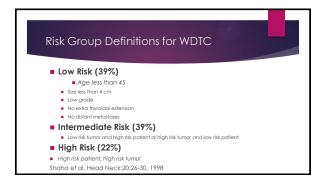


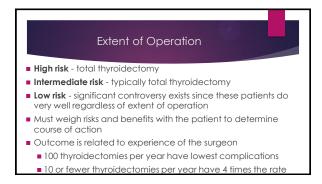


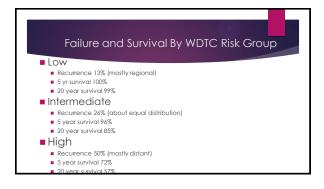




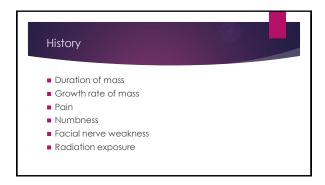
Bethesda FNA malignancy risk		
▶ Diagnostic category R	isk of malignancy (%)	Usual management
Unsatisfactory	1–4	Repeat FNA with ultrasound
▶ Benign	0-3	Clinical follow-up
▶ Atypia or FLUS	5–15	Follow/Lobectomy/Affirma
► Follicular neoplasm	15-30	Surgical lobectomy/Affirma
► Suspicious for malignancy	60–75	Surgical lobectomy or total
► Malignant	97–99	Thyroidectomy (Lobe/total)



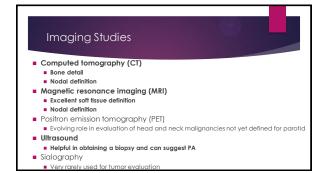




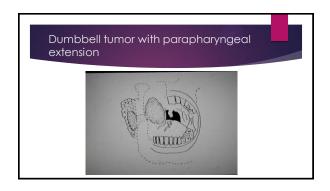










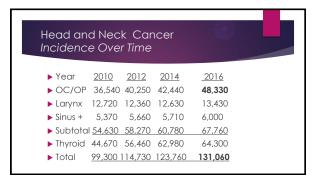




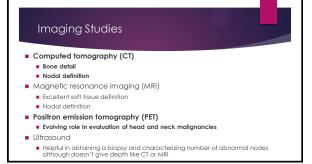


Head and Neck Metastases History of tobacco and alcohol History of skin cancer Non-healing sore or lump in mouth, often painless Hoarseness that doesn't resolve in 2-3 weeks Otalgia especially with swallowing Unilateral nosebleed, hearing loss, cranial nerve weakness Painless lump in neck or mouth

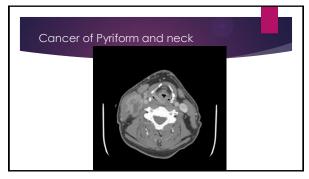
Head and Neck Metastases Location Higher in the lateral neck likely from oral cavity or oropharynx Posterior neck likely skin or nasopharynx Inferior neck thyroid, larynx or pharynx Findings Hard mass Single or multiple May or may not be moveable



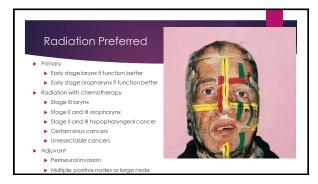


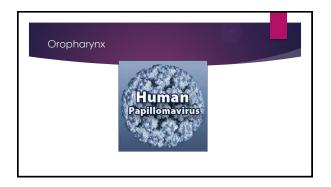


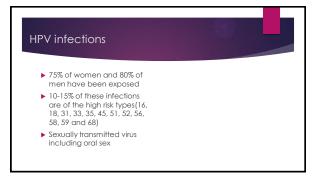


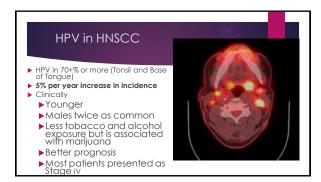


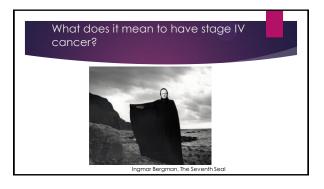












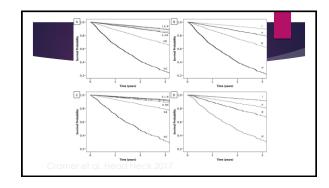
7th Edition Staging of HPV associated HNC

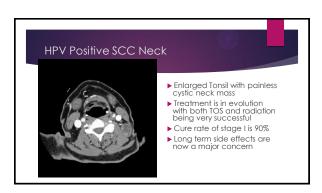
Most present in stage III or IV

New disease entity

January 1, 2018 8th Edition of AJCC staging manual implemented

Majority of patients are now stage I

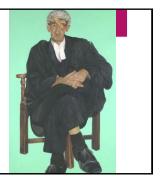




PREVENTION
HPV Vaccination

No evidence yet for prevention of Tonsil and BOT cancer
Vaccination for prevention of high grade cervical dysplasia and anogenital disease
Quadrivalent and nonavaliant vaccine (16, 18, 6, 11) FDA approved as safe and effective for use in females ages 9-26
Equally effective in boys in reducing infection risk
Other strains of HPV are not blocked





Wisdom is not a product of schooling but <mark>of</mark> the lifelong attempt to acquire it. **Albert Einstein**

Miles Kington

Knowledge is knowing a tomato is a fruit. Wisdom is knowing not to put a tomato in a fruit salad.

Thank You For Your Attention