Cheatography

Oncology Part 2 Cheat Sheet by Eeveepuff (NKeeveepuff) via cheatography.com/149511/cs/32569/

	Hypercalcemia - Clinical Symptoms		
cer f	Pts. w/ Ca. conc. b/w 10.5 & 12 mg/dl usually asymptomatic	Clinical manife- stations appear w/ higher lvls.	
of their	Renal	polyuria nephrolithiasis (chronic HC)	
al e	GI	anorexia nausea vomiting constipation pancreatitis	
ardiac ation of al	Neuro-psych	weakness fatigue confusion stupor coma	
	CV	shortened QT interval on ECG bradyarrhythmias heart block cardiac arrest	
(8mg%) assium	Ocular	band keratopathy (chronic HC)	
ım			
	Local Radiotherapy		
	Tolorodicthoropy		

Teleradiotherapy

tumor irradiated from a distant (usually ~ 1m) source

Brachytherapy

irradiation source is placed @ direct vicinity of irradiated tissue (aka. Curietherapy)

Brachytherapy

Contact or intracavital irradiation			
Installation of radiation source into cavity or through a natural route			
Interstitial irradiation			
Insertion of the radioactive source inters- titially			
LDR (low-dose-rate)			
Currently, most freq. = Cesium 137 > dose rate: 1 cGy/min Intracavital: most freq. cervical ca. Interstitial: oral cavity ca. , pharyngeal ca. , prostate ca. , sarcoma			
HDR (high-dose-rate)			
Currently, most freq. = Iridiuim 192 > dose rate: 100 cGy/min Intracavital: vaginal ca. , oesophageal ca. , lung ca. , sarcoma Interstitial: prostate ca.			
Teleradiotherapy			

Conventional

orthovolt (125-500 kV) -can only be used for palliative tx. of superficially located metastases --> practically not used these days

Megavolt

telecobaltotherapy, photons & electrons from linear accelerator, neutrons from either neutron generator or cyclotrone --> energy: 4 - 20 MeV

By Eeveepuff (NKeeveepuff)

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Tumor Lysis Syndrome

Definition

Simultaneous death of many canc cells produces release to blood of enormous quantities of products of destruction.

When?

May particularly occur during initia phase of treatment of pts. w/ large chemosensitive tumors

Symptoms

Hyperphosphatemia		
Hyperuricemia		
Hyperkalemia (life-threatening: cardiac		
arrhytmias)		
Hypocalcemia secondary to formation of		
calcium phosphate: tetany, mental		
agitation, seizures		
Acute renal failure		
Diagnosis		

Based on development of

-increased IvI. of serum uric acid (

, phosphate (4,5 mg%) , and pota (6mg%)

-decreased levels of serum calciu

(7mg%)

-increased serum creatinine (1,5 x upper normal limit)

-cardiac arrhythmias or death, seizures

Management:

• Forced diuresis 3 L/m² PWE + furosemide

· Allopurinol to fight hyperuricemia

(protein degradation).

• Novel agent: rasburicase



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Renal Ca	Clinical Presentation	
Typical Triad	hematuria abd. pain flank / abd. mass (palpable tumor)	
Less freq.	fever weight loss anemia varicocele (abn. enlargement of pampiniform venous plexus) PARANEOPLASTIC SYNDROMES: > erythrocytosis > hypercalcemia > nonmetastatic hepatic dysfunc. (Stauffer's synd.) > acquired dysfibrinogenemia	
Pancreatic cancer		
Notes		

Freq. site = Head of pancreas No screening test available 5-year survival < 5% Median age of diag. = 72 y/o Peak incidence - 65-84 y/o Males > Females

Clinical Features Pain

Obstructive Jaundice Weight loss Anorexia



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Intestinal bypass surgery Deoxycytidine analogue Gemcitabine *Excluding occult distal metastasis

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BI-RAD

BI-RADS				
0 (incomplete)	Recommend add. imaging > mammogram / targeted US			
1 (negative)	Routine breast MR screening if cumulative lifetime risk ≥ 20%			
2 (benign)	Routine breast MR screening if cumulative lifetime risk ≥ 20%			
3 (prob. benign)	Short-interval (6 mth) follow-up			
4 (suspicious)	Tissue diagnosis			
5 (highly suggestive of malignancy)	Tissue diagnosis			
6 (known	Surgical excision when			
biopsy-proven malignancy)	clinically appropriate			
Breast Imaging Reporting and Database System score.				
- Scoring syst. used by radiologists				
describe mammogram results				
- Most efficient tool to help detect breast cancer, esp. at its earliest stage				
*Table taken from UCSF Department of Radiology & Biomed. Imaging				

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