Cheatography

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

Tumor	Lysis	Syndror	ne

Definition

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

When?

May particularly occur during initial 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 lvl. of serum uric acid (8mg%) , phosphate (4,5 mg%) , and potassium

(6mg%)

-decreased levels of serum calcium (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



By Eeveepuff (NKeeveepuff)



Pts. w/ Ca. conc. b/w 10.5 & 12 mg/dl usually asymptomaticClinical manife- stations appear w/ higher lvls.Renalpolyuria nephrolithiasis (chronic HC)GIanorexia nausea vomiting constipation pancreatitisNeuro-psychweakness fatigue confusion stupor comaCVshortened QT interval on ECG bradyarrhythmias heart block cardiac arrestOcularband keratopathy (chronic HC)	21	
NormalpolyantGIanorexianauseanauseavomitingconstipationpancreatitispancreatitisNeuro-psychweaknessfatigueconfusioncomacomaCVshortened QTinterval on ECGbradyarrhythmiasheart blockcardiac arrestOcularband keratopathy	10.5 & 12 mg/dl usually	stations appear
Image: Neuro-psychmausea vomiting constipation pancreatitisNeuro-psychweakness fatigue confusion stupor comaCVshortened QT interval on ECG bradyarrhythmias heart block cardiac arrestOcularband keratopathy	Renal	nephrolithiasis
Factorial pointfatigue confusion stupor comaCVShortened QT interval on ECG bradyarrhythmias heart block cardiac arrestOcular	GI	nausea vomiting constipation
Ocular Ocular	Neuro-psych	fatigue confusion stupor
	CV	interval on ECG bradyarrhythmias heart block
	Ocular	

Local Radiotherapy

Teleradiotherapy

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

Brachytherapy

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

Published 19th June, 2022. Last updated 19th June, 2022. Page 1 of 2.

Sponsored by **ApolloPad.com** Everyone has a novel in them. Finish Yours! https://apollopad.com

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

cheatography.com/nkeeveepuff/

Cheatography

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

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

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



By Eeveepuff (NKeeveepuff)

cheatography.com/nkeeveepuff/

Pancreatic cancer (cont)
Risk Factors
 Cigarette Smoking, Obesity, Non-he- reditary Chronic Pancreatitis Environmental Factors (diet, coffee), prev. partial gastrectomy / cholecyst- ectomy & H. pylori
Physical Findings`
 (+) Courvoisier's sign Palpable, nontender gallbladder (+) Virchow's Node Advanced Disease Abdominal Mass, Hepatomegaly, Splenomegaly, Ascitis
Diagnostic Procedures
Ultrasound CT Scan ERCP Endoscopic US MRCP FDG-PET*
CA 19-9 (Serum Marker)
 80-90% sensitivity & specificity Suggestive of diag. pancreatic ca. Prognostic impilcations – Very high levels w/ inoperable disease Serial evaluation useful for monitoring response to tx. Detecting recurrence in pts. w/ completely resected tumors
Treatment
Symptom management Endoscopic biliary / duodenal stenting Intestinal bypass surgery Deoxycytidine analogue Gemcitabine
*Excluding occult distal metastasis

Published 19th June, 2022. Last updated 19th June, 2022. Page 2 of 2.

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 biopsy-proven malignancy)	Surgical excision when 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		

Sponsored by ApolloPad.com Everyone has a novel in them. Finish Yours! https://apollopad.com