

Oncology Part 2 Cheat Sheet

by Eeveepuff (NKeeveepuff) via cheatography.com/149511/cs/32569/

Tumor Lysis Syndrome

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

Diagnosis

Based on development of

Acute renal failure

- -increased IvI. 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

Hypercalcemia - Clinical Symptoms	
Pts. w/ Ca. conc. b/w 10.5 & 12 mg/dl usually asymptomatic	Clinical manife- stations appear w/ higher lvls.
Renal	polyuria nephrolithiasis (chronic HC)
GI	anorexia nausea vomiting constipation pancreatitis
Neuro-psych	weakness fatigue confusion stupor coma
CV	shortened QT interval on ECG bradyarrhythmias heart block cardiac arrest
Ocular	band keratopathy (chronic HC)

Local Radiotherapy

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 interstitially

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



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Renal Ca. - Clinical Presentation

Typical **hematuria**Triad **abd. pain**

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

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

Pancreatic cancer (cont)

Risk Factors

- Cigarette Smoking, Obesity, Non-hereditary Chronic Pancreatitis
- Environmental Factors (diet, coffee), prev. partial gastrectomy / cholecystectomy & 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

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	Tissue diagnosis

Breast Imaging Reporting and Database System score.

Surgical excision when

clinically appropriate

- Scoring syst. used by radiologists describe mammogram results

malignancy)

biopsy-proven

malignancy)

6 (known

- 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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