

Oncology Part 1 Cheat Sheet

by Eeveepuff (NKeeveepuff) via cheatography.com/149511/cs/32483/

Important Notes		Important Notes (cont)		Blood Tests		Tumor Markers (cont)	
Diagnosis = Nadir	Period when side effect of syst. chemotherapy	WHO Analgesic Ladder	3 Steps Step 1: Non-opioid + optional adjuv. analgesics for mild pain Step 2: Weak opioid + non-opioid & adjuv. analgesics for mild - moderate pain Step 3: Strong opioid + non-opioid & adjuv. analgesics for moderate -	CBC Urine analysis	ESR, LDH, CRP Specific changes in typical blood parameters	CA125	In 80% of ovarian ca. Assessment of tumor mass
Nadir for most of	most severe Minimal number of leukocytes after chemotherapy that most often falls b/w 6 & 14 days			Tumor markers	FC (flow cytometry)	CA 15-3	In disseminated breast ca., not used for monitoring
cytostatic drugs				CEA (carcinoembryonic antigen)	used in colorectal ca. monitoring Not specific (lung, prostate, breast ca.) Elevated in inflam-	Thyreo- globulin	In papillary & follicular thyroid ca.
Primary prevention	risk of FN ≥ 20% Filgrastim (or)					Calcitonin	In medullary thyroid ca.
of febrile neutro- penia	Filigrastin	_	CLL, CML t(9;22),	AFP (alpha-	mation conc. † in hepato- cellular carcinomas	PSA (prostate- specific	Highly specific for prostate
Absorbed dose of ionizing radiation	Dose quantity which is the measure of energy deposited in matter by ionizing radiation / unit mass SI = Gray (Gy) Usually end in - mab	General Symptoms & Signs		fetop- rotein)	& some testicular ca. (nonseminomas)	antigen) CA 19-9	Gastrointestinal
		Unexpl- ained pain	Skin Changes	b-HCG (human chorionic gonado- tropin)	chorioncarcinoma), some ca. & embryo- nic-type tumors: neuroblastoma &		tract ca. (not specific)
		Palor (anemia)	Fever of unknown origin			7 Cancer Warning Signals (CAUTION)	
		Night sweats	Jaundice			Change in bowel / bladder habits	
antibody drugs		Cachexia or substantial body weight loss in short period of time (10%)			nephroblastoma	A sore throat that does not heal	
Tyrosine Kinase Inhibitors	Targeted therapy in adenocarc-inoma> erlotinib, gefitinib, afatinib					Unusual bleeding or discharge Thickening of lump in breast or elsewhere	
						Indigestion / difficulties in swallowing	
						Obvious change in wart or mole	
						Nagging cough or hoarseness	
						This is by A Society	merican Cancer



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TNM Cla	ssification Nodes	Metastasis	Oncogene (cont)	+ Antioncogene	Ond (cor	cogene + Antioncogene nt)		ofsky PSS Definitions ng (%) Criteria
(extent)	(region)	(distant)	p-53	Li-Fraumeni syndrome	C- BCI	chronic lymphocytic - leukemia, malignant	100	Normal no complaints ; revidence of disease
T1 T2	N1 N2	M1		breast ca. soft tissue sarcoma, osteosarcoma,	2 NK-1	melanoma neurofibroma, pheoch- romocytoma, leukemia		Able to carry on normal activity; minor signs or symp. of disease
T3 T4 Tx - can'	T4			brain tumors, pancreatic ca. , adrenal gland ca. ,	Assessment Scale - ECOG O Fully active, able to carry on		80	Normal activity with effort ; some signs or symp. of disease
be assessed		d	DCC	gastric ca. , colorectal ca. cause spectrum of	O	all pre-disease performar w/o restriction		Cares for self; unable to carry on normal activity of
cTNM - clinical pTNM - pathological ycTNM - treated tumours		(deleted colorectal ca.)	neurological disorders		Restricted in physically strenuous activity b/ ambulatory & able to carr out work of a light or	60 y	to do active work Requires occasional assistance, b/ is able to care for most of his	
*in pM> only pM1 possible! m - multiple primary tumors @ single site [eg: T2(m) T1c(5)] aTNM - @ autopsy rTNM - @ recurrence V Venous invasion L Lymphatic invasion Pn - Perineural invasion		ATM	Ataxia-Telangie- sctasia (AT) breast ca. risk, pancreatic ca. risk. ovarian ca. risk. prostate ca., melanoma, etc. retinoblastoma, bladder ca., small cell lung ca. gliomas glioblastoma, breast ca. chronic myeloid	e(sedentary nature eg: light house work, office work 2 Ambulatory & capable of all selfcare b/ unable to carry out any work activities. Up and about >50% of waking hours 3 Capable of only limited selfcare, confined to bed or chair >50% of waking hours 4 Completely disabled. Can't carry on any selfcare. Totally confined to bed or	50	personal needs Requires considerable assistance & freq. medical care	
						40	Disable ; req. special ca & assistance	
		Rb		3		30	Severely disabled; hospital admission is indicated although death	
Oncogene + Antioncogene BRCA- Breast ca. , ovarian 1 & ca.		C-SIS C-ERB-B C-ABL				irs 20	not imminent Very sick; hospital admission necessary; active supportive	
BRCA- 2 MGMT	Glioblaston	na	C-MYC	leukemias, breast ca., etc.	5	chair Dead	10	Moribund ; fatal processess progressing
PALB- 2	Breast ca., ca., pancre				,			rapidly
RAS	lung ca., o							
EGFR	lung ca., gl astoma, bre invasive du colon ca.	east						



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Karnofsky PSS Definitions Rating (%) Criteria (cont)

0

Dead

100-80 --> Able to carry on normal activity & to work; no special care needed 70-50 --> Unable to work; able to live at home & care for most personal needs; varying amount of assistance needed 40-0 --> Unable to care for self; requires equivalent of institutional or hospital care; disease may be progressing rapidly

Degree of Differentiation (G)

Degree of differentiation often relates to clinical behavior of particular tumor

Based on microscopic appearance of cancer cells, pathologists commonly describe tumor grade by 4 degrees of severity

Grade 1

Often well-differentiated / low-grade tumors Generally considered least aggressive in behaviour

Grade 3/4

Usually poorly differentiated / undifferentiated high-grade tumors generally most aggressive in behaviour

*Definition: Degree of abnormality of cancer cells, measure of differentiation, extent to which cancer cells are similar in appearance & func. to healthy cells of same tissue type

Phases of Clinical Trials

Phase First clinical trial of
I given agent in human
being
Goal:

- Initial determination of safety of an agent administration
 Determination of
- Determination of pharmacokinetic profile

Phase Initial trial of therap-II eutic efficacy

- •Preliminary determination of therapeutic efficacy
- •Determination of relationship b/w dose & effect
- •Cont. of phase I safety determination
- •If necessary modification of dosage

Phases of Clinical Trials (cont)

Phase III Systematic trial of therapeutic effectiveness ·Evaluation in randomized, multicenter clinical trial in comparison to std. therapy also in double blind trial (not applicable to anticancer drugs, b/c there is no anticancer placebo effect) •Evaluation using pt. survival time . Cont. of evaluation of adverse reactions & interaction w/ other concomitantly administered medicines

--Kaplan-Meyer

survival curve--

Phases of Clinical Trials (cont)

Phase IV Trial performed after intro of new drug to market

- New indications
- •New methods of administration
- •Combo w/ other new drugs unavailable in preregistration time
- •Comparison trials w/ other similar drugs

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Phases of Clinical Trials (cont)

nalysis [study of

studies]

Formalized, systematic review of results of available phase II & III trials (sometimes only

phase III trials) on same subject

Aim:

•To increase precision & significance of comparable trials through data aggregation •In case of contradictory results of indiv. trials reaching common conclusion

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