

# 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  Primary prevention				CEA (carcinoembryonic antigen)	used in colorectal ca. monitoring Not specific (lung, prostate, breast ca.) Elevated in inflam-	Thyreo- globulin	In papillary & follicular thyroid ca.
	risk of FN ≥ 20% Filgrastim (or) Filigrastin					Calcitonin	In medullary thyroid ca.
of febrile neutro- penia		severe pain  * excluding CLL, CML t(9;22), etc.  General Symptoms & Signs		AFP (alpha- fetop- rotein)	mation  conc. † in hepatocellular carcinomas & some testicular ca. (nonseminomas)	PSA (prostate- specific antigen) CA 19-9	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						Gastrointestinal
		Unexpl- ained pain	Skin Changes	Skin Changes  b-HCG (human chorionic Fever of unknown origin  Jaundice	† in gestational trophoblastic neoplasia (eg: chorioncarcinoma), some ca. & embryo- nic-type tumors: neuroblastoma &		tract ca. (not specific)
		Palor (anemia)				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	Onc (cor	cogene + Antioncogene nt)		ofsky PSS Definitions ng (%) Criteria
(extent)	(region)	(distant)	p-53	Li-Fraumeni syndrome	C- BCl	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	90	Able to carry on normal activity; minor signs or symp. of disease
T3 T4 Tx - can'	<sup>-</sup> 4			brain tumors, pancreatic ca. , adrenal gland ca. ,	Assessment Scale - ECOG  0 Fully active, able to carry on		80	Normal activity with effort ; some signs or symp. or disease
be		d	DCC	gastric ca. , colorectal ca. cause spectrum of	O	all pre-disease performance w/o restriction		Cares for self; unable to carry on normal activity
cTNM - clinical pTNM - pathological ycTNM - treated tumours		(deleted colorectal ca.)	neurological disorders		Restricted in physically strenuous activity b/ ambulatory & able to carry out work of a light or	60	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	eç w	sedentary nature eg: light house work, office work  Ambulatory & capable of all selfcare b/ unable to carry out any work activities. Up	50	personal needs  Requires considerable assistance & freq.  medical care	
						40	Disable ; req. special ca & assistance	
		Rb		3	and about >50% of waking hours  Capable of only limited selfcare, confined to bed or	30	Severely disabled; hospital admission is indicated although death	
Oncogene + Antioncogene  BRCA- Breast ca. , ovarian  1 & ca.		C-SIS C-ERB-B C-ABL			chair >50% of waking hour. Completely disabled. Can't carry on any selfcare. Totally confined to bed or		not imminent  Very sick; hospital admission necessary; active supportive	
BRCA- 2 MGMT	Glioblastom	na	C-MYC	leukemias, breast ca., etc.	5	chair	10	Moribund ; fatal processess progressing
PALB- 2	Breast ca.,							rapidly
RAS	lung ca., or colon ca., e							
EGFR	lung ca., gl astoma, bre invasive du colon ca.	east						



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## Karnofsky PSS Definitions Rating (%) Criteria (cont)

Dead

#### 0

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 given agent in human being Goal: •Initial determination of safety of an agent administration Determination of

## Phase

Initial trial of therapeutic efficacy

> •Preliminary determination of therapeutic efficacy

pharmacokinetic profile

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

### Phases of Clinical Trials (cont)

#### Phase Systematic trial of Ш therapeutic effectiveness ·Evaluation in random-

ized, 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 Trial performed after IV 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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