

| Important Notes                           |                                                                                                                      | Important Notes (cont)                                                 |                                                                                                                                                                                                                                     | Blood Tests                          |                                                                                                                                   | Tumor Markers (cont)                      |                                                      |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| Diagnosis = histopathology*               |                                                                                                                      | WHO                                                                    | <b>3 Steps</b>                                                                                                                                                                                                                      | <b>CBC</b>                           | <b>ESR, LDH, CRP</b>                                                                                                              | CA125                                     | In 80% of ovarian ca.                                |
| Nadir                                     | Period when side effect of syst. chemotherapy most severe                                                            | Analgesic Ladder                                                       | Step 1: Non-opioid + optional adjuv. analgesics for mild pain<br>Step 2: Weak opioid + non-opioid & adjuv. analgesics for mild - moderate pain<br>Step 3: Strong opioid + non-opioid & adjuv. analgesics for moderate - severe pain | <b>Urine analysis</b>                | <b>Specific changes in typical blood parameters</b>                                                                               |                                           | Assessment of tumor mass                             |
| <i>Nadir for most of cytostatic drugs</i> | 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 |
| Primary prevention of febrile neutropenia | risk of FN ≥ 20%<br>Filgrastim (or)<br>Filgrastin                                                                    |                                                                        |                                                                                                                                                                                                                                     | <b>Tumor Markers</b>                 |                                                                                                                                   | Thyreo-globulin                           | In papillary & follicular thyroid ca.                |
| Absorbed dose of ionizing radiation       | Dose quantity which is the measure of energy deposited in matter by ionizing radiation / unit mass<br>SI = Gray (Gy) |                                                                        |                                                                                                                                                                                                                                     | CEA (carcinoembryonic antigen)       | used in colorectal ca. monitoring<br>Not specific (lung, prostate, breast ca.)<br>Elevated in inflammation                        | Calcitonin                                | In medullary thyroid ca.                             |
| Monoclonal antibody drugs                 | Usually end in - mab                                                                                                 |                                                                        |                                                                                                                                                                                                                                     | AFP (alpha-fetoprotein)              | conc. ↑ in hepatocellular carcinomas & some testicular ca. (nonseminomas)                                                         | PSA (prostate-specific antigen)           | Highly specific for prostate                         |
| Tyrosine Kinase Inhibitors                | Targeted therapy in adenocarcinoma<br>--> erlotinib, gefitinib, afatinib                                             |                                                                        |                                                                                                                                                                                                                                     | b-HCG (human chorionic gonadotropin) | ↑ in gestational trophoblastic neoplasia (eg: chorioncarcinoma), some ca. & embryonic-type tumors: neuroblastoma & nephroblastoma | CA 19-9                                   | Gastrointestinal tract ca. (not specific)            |
|                                           |                                                                                                                      | <b>General Symptoms &amp; Signs</b>                                    |                                                                                                                                                                                                                                     |                                      |                                                                                                                                   | <b>7 Cancer Warning Signals (CAUTION)</b> |                                                      |
|                                           |                                                                                                                      | Unexplained pain                                                       | Skin Changes                                                                                                                                                                                                                        |                                      |                                                                                                                                   | Change in bowel / bladder habits          |                                                      |
|                                           |                                                                                                                      | Palor (anemia)                                                         | Fever of unknown origin                                                                                                                                                                                                             |                                      |                                                                                                                                   | A sore throat that does not heal          |                                                      |
|                                           |                                                                                                                      | Night sweats                                                           | Jaundice                                                                                                                                                                                                                            |                                      |                                                                                                                                   | Unusual bleeding or discharge             |                                                      |
|                                           |                                                                                                                      | Cachexia or substantial body weight loss in short period of time (10%) |                                                                                                                                                                                                                                     |                                      |                                                                                                                                   | Thickening of lump in breast or elsewhere |                                                      |
|                                           |                                                                                                                      |                                                                        |                                                                                                                                                                                                                                     |                                      |                                                                                                                                   | Indigestion / difficulties in swallowing  |                                                      |
|                                           |                                                                                                                      |                                                                        |                                                                                                                                                                                                                                     |                                      |                                                                                                                                   | Obvious change in wart or mole            |                                                      |
|                                           |                                                                                                                      |                                                                        |                                                                                                                                                                                                                                     |                                      |                                                                                                                                   | Nagging cough or hoarseness               |                                                      |
|                                           |                                                                                                                      |                                                                        |                                                                                                                                                                                                                                     |                                      |                                                                                                                                   | This is by American Cancer Society        |                                                      |



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| TNM Classification                                                                                      |                        |                      | Oncogene + Antioncogene (cont) |                                                                                                                                                       | Oncogene + Antioncogene (cont)                      |                                                                                                                                                        | Karnofsky PSS Definitions Rating (%) Criteria |                                                                                   |
|---------------------------------------------------------------------------------------------------------|------------------------|----------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|
| Tumour (extent)                                                                                         | Nodes (region)         | Metastasis (distant) | p-53                           | Li-Fraumeni syndrome<br>breast ca. soft tissue sarcoma, osteosarcoma, brain tumors, pancreatic ca. , adrenal gland ca. , gastric ca. , colorectal ca. | C- chronic lymphocytic leukemia, malignant melanoma | 2                                                                                                                                                      | 100                                           | Normal no complaints ; no evidence of disease                                     |
| T0                                                                                                      | N0                     | M0                   |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| T1                                                                                                      | N1                     | M1                   |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| T2                                                                                                      | N2                     |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| T3                                                                                                      | N3                     |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| T4                                                                                                      |                        |                      | DCC (deleted colorectal ca.)   | cause spectrum of neurological disorders                                                                                                              | 1                                                   | Restricted in physically strenuous activity b/ ambulatory & able to carry out work of a light or sedentary nature<br>eg: light house work, office work | 80                                            | Normal activity with effort ; some signs or symp. of disease                      |
| Tx - can't be assessed                                                                                  | Nx - can't be assessed |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| cTNM - clinical<br>pTNM - pathological<br>ycTNM - treated tumours                                       |                        |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| *in pM --> only pM1 possible!                                                                           |                        |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| m - multiple primary tumors @ single site [eg: T2(m) T1c(5)]<br>aTNM - @ autopsy<br>rTNM - @ recurrence |                        |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        |                                               |                                                                                   |
| V Venous invasion<br>L Lymphatic invasion<br>Pn - Perineural invasion                                   |                        |                      | ATM                            | Ataxia-Telangiectasia (AT)<br>breast ca. risk, pancreatic ca. risk. ovarian ca. risk. prostate ca. , melanoma, etc.                                   | 2                                                   | Ambulatory & capable of all selfcare b/ unable to carry out any work activities. Up and about >50% of waking hours                                     | 70                                            | Cares for self ; unable to carry on normal activity or to do active work          |
|                                                                                                         |                        |                      | Rb                             | retinoblastoma, bladder ca. , small cell lung ca.                                                                                                     | 3                                                   | Capable of only limited selfcare, confined to bed or chair >50% of waking hours                                                                        | 60                                            | Requires occasional assistance, b/ is able to care for most of his personal needs |
|                                                                                                         |                        |                      | C-SIS                          | gliomas                                                                                                                                               | 4                                                   | Completely disabled. Can't carry on any selfcare. Totally confined to bed or chair                                                                     | 50                                            | Requires considerable assistance & freq. medical care                             |
|                                                                                                         |                        |                      | C-ERB-B                        | glioblastoma, breast ca.                                                                                                                              | 5                                                   | Dead                                                                                                                                                   | 40                                            | Disable ; req. special care & assistance                                          |
|                                                                                                         |                        |                      | C-ABL                          | chronic myeloid leukemia                                                                                                                              |                                                     |                                                                                                                                                        | 30                                            | Severely disabled ; hospital admission is indicated although death not imminent   |
|                                                                                                         |                        |                      | C-MYC                          | leukemias, breast ca. , etc.                                                                                                                          |                                                     |                                                                                                                                                        | 20                                            | Very sick ; hospital admission necessary ; active supportive treatment necessary  |
|                                                                                                         |                        |                      |                                |                                                                                                                                                       |                                                     |                                                                                                                                                        | 10                                            | Moribund ; fatal processess progressing rapidly                                   |
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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 I First clinical trial of given agent in human being  
Goal:  
•Initial determination of safety of an agent administration  
•Determination of pharmacokinetic profile

Phase II Initial trial of therapeutic 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-Meier 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)

Meta-analysis [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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