

A. TESTS OF MEDICAL ONCOLOGY

CNS Tumors

1. The most common primary brain tumors are:

- a) anaplastic astrocytomas
- b) glioblastomas
- c) oligodendrogliomas
- d) there is no true answer

2. The mean survival rate for malignant CNS tumors is:

- a) 5-10 months
- b) 15-18 months
- c) 2 years
- d) One year

3. A radical method for the treatment of solitary (<3 cm) CNS tumors is:

- a) radiotherapy of the brain
- b) radiosurgery
- c) operative treatment
- d) chemotherapy

4. Radiation is an important part of the complex treatment. The total dose of craniotherapy is:

- a) 40 Gy
- b) 60 Gy
- c) 80 Gy
- d) there is no true answer

5. Chemotherapy incorporates:

- a) Cisplatin
- b) Gemcitabine
- c) Temozolamide
- d) there is no true answer

6. Medulloblastoma is predominantly located in the rear cranial well and occurs most commonly in:

- a) the 3rd and 4th decades of life
- b) childhood
- c) 2nd and 3rd decade of life
- d) newborns

7. The main methods of diagnosis and follow-up of treatment effect in CNS tumors are:

- a) CT and MRI
- b) MRI and PET scan
- c) CT and PET scan
- d) all answers are correct

8. Symptomatic therapy in CNS tumors includes:

- a) dexamethasone, tranquilizers, diuretics
- b) anxiolytics, diuretics
- c) anticonvulsants, diuretics, dexamethasone
- d) all answers are correct

9. Brain metastases are yielded most commonly by:

- a) Prostate and lung carcinoma
- b) Thyroid and gastric carcinoma
- c) Carcinoma of the mammary gland and lung carcinoma
- d) kidney and GIT carcinoma

10. Which treatment method will be preferred for solitary brain metastasis:

- a) Brachytherapy
- b) Percutaneous external irradiation
- c) Operational extirpation
- d) Radiosurgery

11. Temozolamide used to treat brain tumors belongs to which group of cytostatics based on its mechanism of action:

- a) anthracycline
- b) antimetabolite
- c) an alkylating agent
- d) a tyrosine kinase inhibitor

12. Methods for the treatment of multiple brain metastases are:

- a) surgery
- b) radiotherapy
- c) chemotherapy
- d) b + c

List the symptoms of increased intracranial pressure

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1	2	3	4	5	6	7	8	9	10	11	12								
b	b	b	b	c	b	a	c	c	d	c	d								

B. TESTS OF RADIATION THERAPY

1. Behavior in advanced larynx carcinoma is:

- a) surgery, postoperative radiotherapy, chemotherapy
- b) Radiation therapy
- c) Both responses are correct
- d) tracheostomy

2. Mediastinal syndrome is an urgent condition which therapeutic behavior requires:

- a) radiotherapy
- b) chemotherapy
- c) corticosteroids
- d) everything listed

3. High radio/chemosensitive are:

- a) lung carcinoma
- b) testis seminoma
- c) lymphomas
- d) b + c

4. Which one of the three blood lines is most sensitive to radiation is:

- a) red blood line
- b) white blood line
- c) platelets
- d) a + b

5. Transverse myelitis is (indicate 1 wrong answer):

- a) irreversible complication of the spinal cord
- b) late radiation reaction
- c) the occurrence of paraneoplastic syndrome
- d) early radiation reaction

6. Radio-Chemotherapy is indicated in primary brain tumors with following histology:

- a) astrocytoma
- b) glioblastoma multiforme
- c) ependymoma
- d) meningioma

7. Preoperative radio-chemotherapy is recommended to:

- a) colon ascendens carcinoma
- b) rectal carcinoma
- c) carcinoma of the sigma
- d) carcinoma of colon descendens

8. Radio-chemotherapy is:

- a) preoperative radiotherapy + postoperative chemotherapy
- b) postoperative radiotherapy, followed by chemotherapy
- c) postoperative chemotherapy, followed by radiotherapy
- d) concurrent administration of radiotherapy + chemotherapy

9. Cauda equina is an urgent condition which therapeutic behavior requires:

- a) neurosurgical intervention (if possible)
- b) painkillers + corticosteroids
- c) radiotherapy
- d) a + c

10. In which histological type of testicular tumor NO radiation therapy is performed:

- a) seminoma
- b) teratocarcinoma
- c) lymphoma
- d) embryonal

1	2	3	4	5	6	7	8	9	10										
b	d	d	b	c	b	b	d	d	b										

C. TESTS OF NUCLEAR MEDICINE

1. Which are the main goals of nuclear oncology:

- a) Imaging of the functional activity and the degree of proliferation of the tumor
- b) The degree of malignant tumor spread: lymphogenic and haematogenic
- c) Imaging and quantitative assessment of the effect from chemo- and hormone-therapy
- d) All answers are correct

2. The scanning systems used in nuclear medicine are based on the principle of:

- a) Emission of Gamma-rays from the scanning system
- b) Transition of Roentgen-rays through the patient's body
- c) Detection of Gamma-rays or positron emission (pairs of annihilation Gamma-rays) emitted from the studied object
- d) All answers are correct

3. Which methods of nuclear medicine are used for diagnosis of malignant tumours:

- a) PET/CT
- b) Gamma camera scintigraphy
- c) Radioimmunoassay of tumour markers
- d) All answers are correct

4. Nuclear medicine diagnosis provides:

- a) Metabolic imaging
- b) Quantitative assessment of physiological processes in the human body
- c) Targeted planning of radiotherapy
- d) All answers are correct

5. Nuclear medicine applies:

- a) Unsealed radioactive sources for medical diagnosis
- b) Unsealed radioactive sources for radiotherapy
- c) Sealed radioactive sources for medical diagnosis and therapy
- d) Correct answers – a) and b)

