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QUESTIONNAIRE ON DISASTER MEDICINE

- 1. An introduction to disaster medicine. Medical and medicoorganisational items. Classification of disasters.
- 2. Organization of medical care in disaster situation. The rescue chain. Aims of medical care. Tasks of disaster pre-hospital setting.
- 3. Organization of medical care in disaster situation. Severity of accidents. Capacity of medical services.
- 4. Organization of medical care in disaster situation. Ambulances and medical teams.
- 5. Organization of medical care in disaster situation. Triage. First aid. Transportation.
- 6. Nuclear radiation accidents. Basic characteristic of nuclear reactor. Main barriers to prevent the release of fission products.
- 7. Nuclear radiation accidents. Factors influencing on morbidity and mortality routs of exposure, acute effects, chronic effects.
- 8. Nuclear radiation accidents. Protective action after nuclear accident early-phase protective actions, intermediate-phase protective actions, injestion pathway.
- 9. Chemical disasters. Scope of the problem. Classification of the chemical disasters. Chemical disaster procedures.
 - 10. Chemical disasters. Prevention and control measures.
 - 11.General toxicology. Basic concepts. Routs of the entry of poisons.
- 12.General toxicology. Nature of the toxic effects. Classification of toxic agents.
 - 13. Biotransformation of the xenobiotics. Phase I and Phase II reactions.
 - 14. Principles of therapy of intoxications.
 - 15. Antidotes. Principles of antidotal therapy. Classification of antidotes.
- 16. Toxicology of solvents. General characteristic of the solvents.
- Mechanism of action. General and specific effects.
 - 17. Toxicology of Benzene.
- 18. Toxicology of chlorinated hydrocarbones Dechloromethane, Cloroform, Carbon tetrachloride, Carbon disulfide.
- 19. Toxicology of Carbon monoxide. Sources and uses. Mechanism of action. Pathology.
- 20. Toxicology of Carbon monoxide. Clinicial presentation. Diagnosis. Treatment.
 - 21. Toxicology of Carbon dioxide.
- 22. Toxicology of Cyanide. Sources and uses. Mechanism of action. Metabolism.
 - 23. Toxicology of Cyanide. Clinicial presentation. Diagnosis. Treatment.
 - 24. Toxicology of Phosgene.
 - 25. Toxicology of Chlorine.

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- 26. Toxicology of Ammonia.
- 27. Toxicology of Nitrogene oxides.
- 28. Modern riot control compounds.
- 29. Toxicology of anticholinesterase pesticides. Organophosphorus esters and carbamate esters. Toxicokinetics. Mechanism of toxic action. Biotransformation. Pathomorphology.
- 30. Toxicology of Anticholinesterase pesticides signs and symptoms of acute poisonings. Delayed neurotoxcity. Carbamate pesticides.
 - 31. Toxicology of Anticholinesterase pesticides. Diagnosis. Treatment.
- 32. Physics of radiaton biology. Characteristic of the ionizing radiation. Natural radiation background.
 - 33.Dosimetry basic concepts. Radioactive isotopes.
 - 34. Biological effects of ionizing radiation. Target theory. Indirect theory.
- 35.Biological effects of ionizing radiation. Modern concepts of radiation injury.
 - 36.Influence of radiation on molecular level.
 - 37. Radiation effects on cellular level. Fate of irradiated cells.
- 38.Effects of radation on normal tissues. Haemopoitic system. Circulating blood.
- 39.Effects of radation on normal tissues skin, digestive system, reproductive system, eye, central nervous system.
- 40. Total body radiation syndrome prodromal, latent and manifest illness stage.
 - 41.Bone-marrow syndrome.
 - 42. Gastrointestinal syndrome and central nervous system syndrome.
- 43. Treatment of acute radiation syndrome. Chemical agents. Biological agents.
 - 44. Radioprotectors.
 - 45. Radiodermatitis.
- 46. Radiotoxicology. Radiobiological characteristics of iodine-131, cesium-137 and stroncium-90.
 - 47. Late effects of radiation. Carcinogenesis.
 - 48.Late effects of radiation. Genetic effects.
 - 49. Radiation damage of the fetus.

Head of Department of Disaster Medicine:
(assoc. prof. V. Shopova, PhD)

Sources:

1. Ellenhorn's Medical Toxicology, second edition, Williams & Wilkins, 1997.

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- 2. Prasad K, Handbook of Radiobiology, second edition, CRC Press, 1995.
- 3. Handbook of Disaster Medicine, J. de Boer, M. Dubouloz, Hentenaar Boek BK, Nieuwegein, the Netherlands, 2000.
- 4. Medicine en situation de catastrophe, L.J.Courbil et P, Shevalier, Masson Paris, Milan, Barcelone, Bonn, 1992
- 5. The Public Health Consequences of Disasters, Ed. by Eric K. Noji, Oxford University Press, 1997.