Lesson 18.

Intermediate certification Control of knowledge, abilities, skills on the modular unit No. 2 "Particular issues of toxicological chemistry" (Part 1). CTA of heavy metals, carbon monoxide and fluorine compounds.

- 1. Characteristics of metal poisons.
- 2. Classification of metal poisons according to the needs of the body.
- 3. Hypermicroelementosis.
- 4. Toxicokinetics of heavy metal compounds.
- 5. Toxicodynamics of heavy metal compounds.
- 6. Binding of "metal poisons".
- 7. Objects of research.
- 8. Metals poisons isolation method. Types of the mineralization.
- 9. Denitration.
- 10. Instrumental methods of Metals poisons analysis.
- 11. Fractional (chemical) method of analysis "metal poisons".

12. Lead. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

13. Barium. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

14. Manganese. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

15. Chromium. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

16. Silver. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

17. Zinc. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

18. Cadmium. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

19. Copper. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

20. Antimony. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

21. Bismuth. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

22. Thallium. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

23. Arsenic. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection (Sanger-Black reaction, Marsh reaction) and quantification.

24. Mercury. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation (DESTRUCTION), detection and quantification.

25. Detection and determination of mercury in urine.

26. Organic compounds of mercury (Ethylmercuric chloride). Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation (extraction), detection and quantification.

27. Chemical-toxicological analysis of organic and inorganic fluorine compounds. Toxicological significance, toxicokinetics, toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification.

28. Carbon monoxide. Toxicological significance, toxicokinetics,

toxicodynamics, mechanism of toxicity, objects of research, method of isolation, detection and quantification. Spectrophotometric determination of carboxyhemoglobin in blood.

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