

Faculty of Medicine , XI / XII semester

HEALTH RESORT THERAPY AND PHYSIOTHERAPY WITH MEDICAL TOURISM

1. Thematic plan of a lecture course, seminars and practical training

Day	The content of lecture course
1.	<ul style="list-style-type: none"> The general review – Medical specialty -Physical Medicine, Rehabilitation and Health Resort Therapy; Medcal tourism- its special importance for Georgia and development prospects.
2.	<ul style="list-style-type: none"> Types of medical tourism, especially for Georgia: SPA tourism, speleotourism; Horse tourism, ski tourism.
3.	<ul style="list-style-type: none"> Natural and transformed physical factors in medical practice and their role in the treatment / rehabilitation of various systems diseases Electric currents –their varieties and application in clinical practice
4.	<ul style="list-style-type: none"> Electromagnetic and Magnetic fields- application in clinical practice Mechanical vibration energy - application in clinical practice
5.	<ul style="list-style-type: none"> Artificial radiation - application in clinical practice
6.	<ul style="list-style-type: none"> Mineral waters (drinking and baths), mud and their use in medical practice The Role of Karst Caves in the development of medical Tourism. Speleotherapy and Speleotourism
7.	<ul style="list-style-type: none"> Tbilisi as the Capital - Resort and Its Role in Creating Tourism Image of Georgia and Development of Medical Tourism.

Day	The content of Seminars and Practical trainings
1.	<p>Seminar:</p> <ul style="list-style-type: none"> Electrotherapy Constant electric current. Galvanisation. Ionophoresis Pulse currents of low frequency High frequency currents- The action mechanism <p>Practical course:</p> <ul style="list-style-type: none"> Compatibility of ionophoresis with other physical factors Galvanizing devices, dosage principles. The general techniques of carrying out of procedures

	<ul style="list-style-type: none"> • Diadynamotherapy- Kinds of currents, the physical characteristic; The action mechanism Diadynamic devices, dosage principles. The general techniques of carrying out of procedures • Sinusoidal- modulated currents- Kinds of currents, devices, dosage principles. The general techniques of carrying out of procedures • Darsonvalisation- the physical characteristic; The action mechanism, devices, versions of electrodes, dosage principles. The general techniques of carrying out of procedures
2.	<p>Seminar:</p> <ul style="list-style-type: none"> • Electromagnetic, electrical and magnetic fields; physical characteristic and action mechanism <p>Practical course:</p> <p>Ultrashortwave therapy- Condenser plates, their versions. The general techniques of carrying out of procedures</p> <p>Magnetotherapy- The general techniques of carrying out of procedures</p> <p>Electromagnetic fields of ultrahigh frequency: Microwave therapy- The action mechanism, devices, versions of electrodes, dosage principles. The general techniques of carrying out of procedures</p>
3.	<p>Seminar:</p> <ul style="list-style-type: none"> • Ultrasonotherapy-ultrasonophoresis- physical characteristic and action mechanism • Phototherapy- Phototherapy-physical characterizing of light rays, mechanism of action. Treatment by infra-red, visible and ultra-violet beams <p>Midterm test</p> <p>Practical course:</p> <ul style="list-style-type: none"> • Ultrasonotherapy-ultrasonophoresis - equipment; indications and contraindications to carrying out procedure; private techniques • phototherapy and chromotherapy; equipment; indications and contraindications to carrying out procedure; private techniques.
4.	<p>Seminar:</p> <ul style="list-style-type: none"> • balneology; medical climatology and climatotherapy; physical characteristic of climate, influence mechanism; climatic resorts of Georgia. • balneology and balneotherapy; physical characteristic of mineral waters, influence mechanism; balneology resorts of Georgia. • hydrotherapy; physical characteristic and mechanism of action of fresh water. <p>Practical course:</p> <ul style="list-style-type: none"> • Classification of climate and weather. Climatotherapy. Passive and active climatotherapy. Kinds of climatotherapy • medicinal Mineral waters, composition of mineral waters. classification. The mechanism of physiological action of mineral waters and medical use; internal use

	<p>of mineral waters; baths of mineral waters. Artificial mineral baths.</p> <ul style="list-style-type: none"> hydrotherapy – showers, fresh-water bathtubs; indications and contraindications to carrying out procedure; private techniques.
5.	<p>Seminar:</p> <ul style="list-style-type: none"> Peloidology, peloidotherapy. Arising of peloids in nature, kinds of peloids and their regeneration, physiological mechanism of action and methods of their use. Health resorts with Pelloids thermotherapy – a paraffinotherapy and an ozokeritotherapy; physical characteristic and influence mechanism. Physical factors in treatment and rehabilitation of cardiovascular system diseases Physical factors in treatment and rehabilitation of diseases of digestive system Physical factors in treatment and rehabilitation of diseases of musculoskeletal system
6.	<p>Seminar:</p> <ul style="list-style-type: none"> Physical factors in treatment and rehabilitation of diseases of Central nervous system Physical factors in treatment and rehabilitation of diseases of peripheral nervous system Physical factors in treatment and rehabilitation of urological diseases and post operational conditions Physical factors in treatment and rehabilitation of Gynecological diseases Application of physical factors in pediatrics
7.	<ul style="list-style-type: none"> Presentation of papers and discussion
	Examination (testing)

2. Criterias of student`s progress estimation

Attendance and academic activity - 3 points

Practical skills - 16 points

Academic activities – 32 points

Presentation of essay - 9 points

Examination (testing) - 40 points

3. Schedule of lectures and practical lessons for the current semester / academic year

Group	Time table	Examination
2a	23.10.19 – 30.10.19	31.10.19
1	30.10.19 – 06.11.19	07.11.19
1a	01.11.19 – 08.11.19	09.11.19
3a, 4a	18.12.19 – 25.12.19	26.12.19
8	21.01.20 – 28.01.20	29.01.20
6, 7	30.01.20 – 06.02.20	07.02.20
3	06.02.20 – 13.02.20	14.02.20
2	14.02.20 – 21.02.20	22.02.20
4	25.03.20 – 01.04.20	02.04.20
5	03.04.20 – 11.04.20	13.04.20