Information sheet for the course Functional diagnostics locomotor system I.

| University: Alexander Dubček Univer | rsity of Trenčín | | | | |
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| Faculty: Faculty of Health Care | | | | | |
| Course unit code: <i>FDgLS1/e</i> | Course unit title: Functional diagnostics | | | | |
| - | locomotor system I. | | | | |
| Type of course unit: <i>compulsory</i> | | | | | |
| Planned types, learning activities an | d teaching methods: | | | | |
| Lecture: 2 hours weekly/26 hours per s | semester of study; full-time | | | | |
| Seminar: 1 hour weekly/13 hours per s | semester of study; full-time | | | | |
| Number of credits: 2 | | | | | |
| Recommended semester: 2 nd semester | er in the 1 st year (part-time) | | | | |
| Degree of study: <i>I (bachelor)</i> | | | | | |
| Course prerequisites: Anatomy I., Mr | ıscle Test I. | | | | |
| Assessment methods: | | | | | |
| The student will acquire 50 points per | semester : | | | | |
| Active participation in lectures and exact exact set of the set of | ercises. | | | | |
| Practical examination (25 points). | | | | | |
| <i>Test / oral examination (25 points).</i> | | | | | |
| The acquisition and evaluation is nece | essary to obtain at least 48 points , to obtain user B at least | | | | |
| 44 points on C score at least 41 points to score at least 38 points D and E score at least 35 | | | | | |
| points. | - | | | | |
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Learning outcomes of the course unit:

The student has theoretical knowledge in basic fault diagnosis locomotor apparatus. It can take a history and perform a comprehensive rehabilitation objective examination focusing on the fundamental gait disorders, cranial nerves and movement disorders in individual segments. It can handle basic measurement methodology SFTR dynamic tests and examination of the spine. The goal is to explain and characterize the nature and principles of methods, techniques and procedures in the functional diagnosis of the locomotor system. Prove practically apply the general principles and techniques of compiling history, demonstrating removal of anamnestic data and compilation of individual parts of history.

Practically demonstrate trigonometric and anthropometric examination ; examination shortened muscle groups , muscle tone , reflex changes in the skin , subcutaneous tissue and fascia , muscle test under examination , evaluation of posture , gait examination , hand grip ability , the overall objective , locally analytic and synthetic locally examination in terms of physiotherapy .

Teach students skills of rational argument the summation of individual symptoms of the logical condensed into syndromes and directing the diagnosis of functional assessment and draw conclusions from functional diagnostics locomotor system.

Course contents:

Lectures :

1. Anthropometry : measurement of body height , weight , body surface area calculation , kaliperácia , determination of lean body mass , overweight , Broca index , BMI , measuring the length and limb circumference , size torso , chest , somatotypes , records dokumentation.

2. Investigation of mobility in the joints : the concept of range of movement, basic position, planes, axes, gauges, planimetric method, a method SFTR, examination of functional blocade of peripheral joints (principle), examination of joint intention, informative examination and measurement of spinal mobility, hypermobility (distribution, examination by Sachs).

3. Investigation shortened muscle groups : (a term shortened muscle spasm, contracture,

equipment tests shortened muscles of the hip, thigh and lower leg, diagnosis shortened muscles of the torso and upper extremities.

4. Examination of muscle tone and consistency, examination of reflex changes in the skin, subcutaneous tissue and fasciách.

5. Muscle Test : a historical perspective , analytical assessm

ent of muscle strength, muscle strength grades, the principle examination record.

6. Evaluation posture in stand.

7. Examination gait.

8. Examination subsidence and sitting.

9. Examination of the ability of the hand grip (adult and child).

10. The imaging techniques and their use in rehabilitation (X-ray , CT , MRI , ultrasound, denzitometria.

11 . Auxiliary examination methods in rehabilitation , ECG , ergometry , BMI , spirometry , EMG, EEG , $I/T\,curve$

12. Conclusions analyzes of, compiling physiotherapy program

Exercises :

1. Anamnesis.

2. Antropometry.

- 3. Method of SFTR and dynamic tests of vertebral column.
- 4. Muscle test.
- 5. Examination of posture while standing and sitting..
- 6. Examination shortened muscles.
- 7. Examination motion stereotyps.
- 8. Examination of hypermobility.
- 9. Examination of the hand grip ability.

Odporúčaná literatúra:

- 1. KOLÁŘ, P., et al.: 2009. Rehabilitace v klinické praxi. Praha: Galén, 2009. 76 s. ISBN 978-80-7262-657-1.
- 2. JANÍKOVÁ, D.: 1998. Fyzioterapia funkčná diagnostika lokomočného systému. Martin: Osveta, 1998. ISBN 80-8063-015-1.
- 3. TAKÁČ, P.: 2003, Klinická propedeutika v rehabilitácii. Trnavská univerzita, Fakulta zdravotníctva a sociálnej práce Trnava, 2003, ISBN 80-89104-16-9
- 4. GÚTH, A. a kol.: 2011. Vyšetrovacie metodiky v rehabilitácii, Liečreh, Bratislava, 2011.
- 5. GÚTH, A. a kol.: 2005. Liečené metodiky v rehabilitácii pre fyzioterapeutov. Liečreh Gúth, Bratislava, 2005, ISBN 80-88932-16-5.
- 6. JANDA, V.: 2004. Svalové funkční testy. Praha: Grada, 2004. ISBN 8024707225.

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| Language: Slovak | | | | | | | | | | |
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| Remarks: | | | | | | | | | | |
| Evaluation history: Number of evaluated students | | | | | | | | | | |
| A | В | С | D | E | FX | | | | | |
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| Lectures: MUDr. Miroslav Malay, Mgr. Patrícia Baňárová | | | | | | | | | | |
| Last modification: 22.04.2014 | | | | | | | | | | |
| Supervisor: doc. MUDr. Juraj Čelko, PhD. | | | | | | | | | | |