

**Information sheet for the course**  
Examination methods in clinical cytology  
**Compulsory Subject**

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>Faculty of Health Care</i>	
<b>Course unit code:</b> VMKC/d	<b>Course unit title:</b> Examination methods in clinical cytology
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b> <i>Seminar: 2 hours weekly/26hours per semester of study; (full-time)</i>	
<b>Number of credits:</b> 2	
<b>Recommended semester:</b> <i>6<sup>th</sup> semester in the 3<sup>rd</sup> year (full-time)</i>	
<b>Degree of study:</b> <i>I (bachelor)</i>	
<b>Course prerequisites:</b> <i>none</i>	
<b>Assessment methods:</b> Written or oral exam ( 50 points ) - To obtain user A is necessary at least 45 points, to obtain user B at least 40 points, to obtain user C at least 35 points, to obtain user D at least 30 points D and to obtain user E at least 25 points.	
<b>Learning outcomes of the course unit:</b> The student will acquire knowledge and practically controls material processing for histological examination, histological staining , types of dyes, can identify different types of tissues, collagen, elastic and reticular fibers. Can handle basic and special methods in histological and cytological practice.	
<b>Course contents:</b> <ol style="list-style-type: none"> <li>1. Preparation and processing of the material for histological examination . Fixation</li> <li>2. Histological staining, kinds of dyes , basic staining .</li> <li>3. Immunohistochemistry</li> <li>4. Types of tissues, representation of collagen , elastic and reticular fibers .</li> <li>5. Cardiovascular System .</li> <li>6. Lymphatic organs.</li> <li>7. Endocrine glands , histochemical enzyme evidence DPP - IV .</li> <li>8. Gastrointestinal tract - Part 1 - immunohistochemical evidence of Helicobacter pylori</li> <li>9. Gastrointestinal tract - Part 2 - histochemical enzymes evidence GIT .</li> <li>10. Urinary system .</li> <li>11. The male reproductive system .</li> <li>12. The female reproductive system . Gynecological cytology .</li> <li>13. Skin, pigments .</li> </ol>	
<b>Recommended of required reading:</b> <ol style="list-style-type: none"> <li>1. VACEK Z., <i>Histológia a histologická technika</i>. Brno. NCONZO, 1995. 184 s. ISBN 978-80-7013-202-9.</li> <li>2. LOJDA, Z. A KOL. <i>Základy histochemického průkazu enzymů</i> . Brno: Ústav pro další vdelávání zdravotnických pracovníků. 1980.</li> <li>3. LÜLLMANN-RAUCH R. <i>Histologie</i>. Překlad 3. vydání. Grada, Praha, 2012.</li> <li>4.</li> <li>5. GOMOLČÁK, P. <i>Základy imunohistochemie v patológii</i>. – Brno: Institut pro další vzdělávání pracovníků ve zdravotnictví v Brně. 1997. ISBN 80-7013-239-6.</li> <li>6. NYKLÍČEK, O. - J. SLOBODA, J. <i>Cytodiagnostika pro SZP</i>. 1990. 223s.</li> <li>7. KONRÁDOVÁ V., UHLÍK J., VAJNER L.: <i>Funkční histologie</i>. H+H Jinočany 1998.</li> <li>8. LICHNOVSKÝ V. ET AL. <i>Základy histologie pro bakaláře</i>. LF UP Olomouc, 1997.</li> <li>9. BERKOVITZ, B.K.B. – HOLLAND, G.R.: <i>Colour Atlas and Textbook of Oral Anatomy, Histology and Embryology</i> 3rd Edition, Elsevier Science 2005</li> <li>10. JIRKOVSKÁ M., JIRSOVÁ Z., MARTÍNEK J.: <i>Testové otázky z histologie a embryologie</i>. Univerzita Karlova, Praha, (1997).</li> </ol>	

<b>Language:</b> Slovak					
<b>Remarks:</b>					
<b>Evaluation history:</b> <i>Number of evaluated students:</i>					
A	B	C	D	E	FX
<b>Lectures:</b> doc. MUDr. Ján Bielik, CSc.					
<b>Last modification:</b> 22.04.2014					
<b>Supervisor:</b> doc. MUDr. Mária Štefkovičová, PhD., MPH.					