Conclusions. The proportion of patients with cancer is increasing with age. The larger number of urban patients is probably due to the higher accessibility to health care in comparison with rural areas. Colon located tumors are prevalent compared to other locations. Being overweight or obese and alcohol consumption increase the risk for colorectal cancer confirming the results of other studies.

Key words: colorectal cancer, study, risk factors

FUNDAMENTAL SCIENCES

MORPHOPATHOLOGY

227. PERITONEAL AND RETROPERITONEAL LESIONS: PRELIMINARY RESULTS

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Introduction. Lesions of the peritoneal and retroperitoneal cavities are heterogeneous and include vascular disorders, inflammations and tumors.

Aim of the study: To present the preliminary results regarding the types of peritoneal and retroperitoneal lesions.

Material and methods. The clinicopathological aspects were examined in all consecutive cases diagnosed in 2015 at Department of Pathology of Clinical County Emergency Hospital of Tirgu Mures, Romania.

Results. From the 672 cases, 491 were diagnosed with peritonitis, 125 with tumor lesions, 54 with vascular disorders and two patients presented hydatic cysts. Our of 125 tumors, 116 were metastatic (92.80%) and 9 (7.20%) were diagnosed as primary tumors. In 19 out of 125 tumors, ascites was associated. Metastases were predominantly diagnosed in women (n = 69; 59.48%) with a median age of 64.17 ± 13.05 years, whereas peritonitis mostly affected the male gender (n=281; 57.23%) with a median age of 39.53 ± 26.54 years.

Conclusion. The type of peritoneal and retroperitoneal lesions are related to the patients' gender: peritonitis is more frequent in males, whereas metastases predominantly affects females in their pre-menopausal or menopausal period. Ascites does not always occur in patients with peritoneal carcinomatosis.

Key words: peritonitis, carcinomatosis, hydatic cyst, retroperitoneum

228. ANATOMICAL FEATURES OF COMPLETE MYOCARDIAL BRIDGES AND ITS ROLE IN SUDDEN DEATH OCCURRENCE

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Introduction. Complete myocardial bridges (CMB) are myocardial strips covering a portion of the underepicardial coronary artery on one or more of its parts. Thick myocardial bridges are considered to have a specific role in heart emergencies occurrence: the myocardial infarction and sudden death in young people with clean coronary vessels after physical exercises.

Aim of the study. To distinguish different anatomical features of CMB and their possible involvement in the ischemic heart disease.

Material and methods. 300 formalized human hearts were studied by fine anatomical dissection method at macroscopic, macro-microscopic (stained with Schiff reagent) and microscopic (stained with hematoxylin-eosin and pycrofuxin by van Gieson method) levels.

Results. CMB were found in 62.5% cases. Most frequently CMB cover the anterior interventricular branch, followed by the diagonal branches of both ventricles, first marginal branch and posterior interventricular branch. The width of about 1/3 of complete myocardial bridges (34%) was about 10-19 mm, in 25% of cases its width was 20-29 mm, in 18% of dissected hearts the width of CMB was 1-9 mm and only in 4% of cases wide bridges, up to 70 mm, were found on anterior interventricular branch. Macro-microscopic and microscopic study revealed deformation and narrowing of the vessel under the bridge what could have an important role in heart ischemic sufferings and sudden death. Microscopic investigation of the under-bridge segment indicates that the direction of the myocardial fibers varies. While in thin myocardial bridges the direction of the myocardial fibers is similar to the first myocardial layer, in thick bridges, especially those located above the anterior interventricular branch, myocardial fibers surround the vessel and have the helicoidally orientation, forming a myocardial tunnel around the vessel.

Conclusions. The degree of systolic compression of the coronary vessel by myocardial bridge depends on many factors: the topography of the bridge, its thickness, width and muscle-conjunctive composition, muscle's fibers orientation, the diameter of the involved vessel and its deepness, the association of some myocardial bridges on the same vessel, presence of atherosclerosis. Systolic compression of coronary vessels by myocardial bridges may cause sudden death in young, healthy persons.

Key words: complete myocardial bridges, myocardial infarction, sudden death

229. CARDIAC MANIFESTATIONS IN TYPE 2 MYOCARDIAL INFACTION

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Introduction. Type 2 myocardial infarction (T2MI) happens secondary to ischemia due to an imbalance between myocardial oxygen supply and demand. Causes are usually different from a plaque rupture (for example: anemia, coronary spasm, tachycardia, hypertension, hypotension). This categorization is used since 2012, but, limited data is available regarding patients profiles.

Aim of the study. To analyze the literature and to describe the clinical characteristics of the patients.

Materials and methods. We conducted an electronic search in ScienceDirect and PubMed using the words "type 2" or "type II", "myocardial infarction" and "characteristics" and "manifestations", date limited from 2008 when first definition was introduced.

Results. The main findings of this study confirm the difficulty in the differential diagnosis between patients with T2MI and T1MI, still, the symptoms of T2MI differs from those of T1MI. Atypical chest pain is the most frequent manifestation of T2MI. Among the most often clinical findings were symptoms like dyspnea, syncope, arrhythmias. When comparing the groups, patients with T2MI had higher cardiac rhythm. Furthermore, rales, leg edema and cardiomegaly on radiography were more common. Moreover, it was related that T2MI can be related more with pulmonary congestions. They also tend to be older, majority female.

Conclusions. Type 2 MI is more comune in older, females and in patients with multiple comorbidities. The most frequent manifestations is atypical chest pain.

Key words: myocardial infarction, type II, characteristics