

### Confirming the commitment

This new issue of our journal confirms the commitment of our editorial and scientific team to increase the quality of the articles published, with the aim of realizing a journal of high scientific and professional quality which is also useful to all the colleagues of many medical specialties.

The *Review* section includes several interesting synthesis articles, the first one belonging to a team from cardiology clinics of Cluj-Napoca and Bucharest, who propose to analyze an old unsolved “mystery” – the microvascular obstruction in acute myocardial infarction. Based on a careful and experienced analysis of the literature, the authors emphasize the role of microvascular obstruction in myocardial reperfusion failure and the unfavorable post-infarction evolution. Another emphasis is laid on the usefulness of methods to quantify microvascular obstruction – for example coronary wedge pressure, which could point to the selection of the most adequate treatment.

The same section continues with an article by colleagues from the Department of Genetics of the Iuliu Hatieganu University of Medicine and Pharmacy, who aim at answering the question whether “multi gene panel testing for hereditary breast cancer” is ready to be used. Given that about 20% of breast cancers are hereditary, the authors identified 23 studies investigating multi gene panel testing for hereditary breast cancer and found a prevalence of non-BRCA genes of up to 12%, but also a high level of variants of uncertain significance. A result with a high level of variants of uncertain significance is likely to be more costly than bring benefits, as well as increase the anxiety in patients. The authors conclude that further research is necessary and that at this point in time multi gene panel testing is not yet ready to be used outside clear guidelines.

The third review is a synthesis of the existing knowledge on pineal gland anatomy and physiology, a subject relatively little explored, which requires additional research regarding the role melatonin, secreted by the gland, plays in immunity, as well as the N,N-dimethyl-tryptamine neurotransmitter, with hallucinogen potential, which could play a role in the treatment of some psychiatric conditions.

The section *Original research* opens with an experimental study carried out at “Nicolae Testemitanu” State University of Medicine and Pharmacy of Chisinau, Republic of Moldova, which suggests that advanced glycosylated end products could be useful in the early diagnosis and staging of the risk of acute myocardial infarction. The next domain tackled is gastroenterology, with three interesting research papers: the first documents that postinfectious irritable bowel syndrome is a real condition, representing at least 10% of the patients with IBS, and that effective therapy should be well adapted and tuned; the second paper, belonging to a team from India, demonstrates that the assessment of beta-catenin

expression by immunochemistry in colorectal neoplasms may represent an additional prognostic marker in colorectal cancer. And finally, the third gastroenterology study in this issue and for the first time carried out in Romania, proves that even though therapeutic doses of laxatives are not expensive, their large scale use in the treatment of constipation represents an economic burden for certain patient categories.

A distinctive research comes from Bulgaria - “Comparing patient safety culture in Bulgarian, Croatian and American hospitals - preliminary results”, with significant differences of positive scores distribution found between Bulgarian and USA patient safety culture on the one hand, and between Bulgarian and Croatian on the other. The differences evidenced may be logically accounted for by the cultural and organizational distinctions between the 3 countries analyzed.

The journal issue continues with a several original articles of dental medicine, of which we mention: one study from India demonstrating a link between middle ear infections and the high incidence of dental caries, a study documenting the fact that the difference between odontogenic cysts and the dentigerous and radicular ones may be evidenced by investigating the immunohistochemical expression of Cytokeratine-7, much less present in odontogenic cysts; an *in vitro* study showing that all three glass ionomer cements investigated have antibacterial action against *Streptococcus mutans*; and finally, another interesting study on the use of tridimensional virtual model that looks into the effect of tooth morphology and vertical bracket positioning on resultant stress in periodontal ligament.

The *Case reports* section includes a clinical observation, intriguing and valuable for current practice, related to the thrombosis of a mechanical heart valve complicated by a rare situation – secondary coronary embolism, the more so as the event occurred during pregnancy. Diagnostic difficulties are emphasized, along with the necessity for individualized treatment leading to a favorable outcome for the mother and baby. Another clinical case is of a female patient treated with Interferon alpha 2B and Ribavirin for chronic hepatitis C, who developed a rare complication because of therapy – early optic neuropathy, which imposed discontinuation of treatment with subsequent total remission of symptoms. The third case is exceptional – primary B lymphoma of a peripheral ulnar nerve, with good response to chemotherapy initiated after diagnosis.

This issue closes with a historic article presenting the life and work of Professor Gheorghe Bilascu, who changed the history of Romanian dentistry and was the founder of the Higher Education in Dentistry in Cluj immediately after the First World War.

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Associate Chief Editor