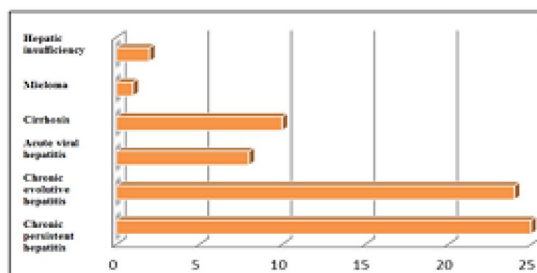
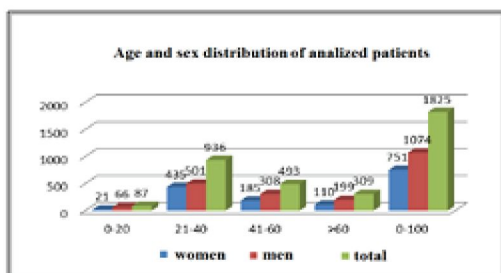


Comparative analysis of hepatic cytolysis biochemical parameters and of quantitative changes in protein fractions in patients with chronic hepatitis



Modified parameters	A %	B %	γ %	A/G %	G %	IgA
Normal values	52-62	8-11	11-21	1.2-1.5	38-48	0.7-4
Average values for the studied group	43.5942	13.68116	28.49275	0.780145	55.98551	6.76

Cucu et al., Comparative analysis of hepatic cytolysis biochemical parameters and of quantitative changes in protein fractions in patients with chronic hepatitis

THE ANTIMICROBIAL EFFICIENCY OF ENDODONTIC IRRIGATION SOLUTIONS ON BACTERIAL BIOFILM. A LITERATURE REVIEW

Irrigant solutions (Sodium hypochlorite; Chlorhexidine; iodine potassium iodide; combinations of antimicrobial solutions)

Antibiofilm substances with *in vitro* efficiency (N-acetylcysteine)

Enhancement of the antimicrobial efficiency of endodontic irrigants (sonic and ultrasonic agitation; non-thermal plasma removal of endodontic bacteria)

Cristea et al., The antimicrobial efficiency of endodontic irrigation solutions on bacterial biofilm. A literature review

Editor in Chief

Alexandru Mihai Grumezescu

Associate Editors

Michael R Hamblin, Harvard-MIT Division of Health Sciences and Technology, Cambridge, **United States**
Badal Kumar Mandal, Environmental and Analytical Chemistry Division, School of Advanced Sciences, VIT University, **India**
Carmen Chifiriuc, University of Bucharest, Faculty of Biology, Microbiology Immunology Department, **Romania**

Assistant Editor

Valentina Grumezescu, National Institute for Lasers, Plasma & Radiation Physics, Lasers Department, P.O. Box MG-36, Bucharest-Magurele, Romania
Florin Iordache, Flow Cytometry and Cell Therapy Laboratory, Institute of Cellular Biology and Pathology "Nicolae Simionescu" (ICBP), Bucharest, Romania
Alexandra Elena Oprea, Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Romania
Ioana Bălănuța, AMG Transcend, Romania

Editorial Board

- (1) **Howard I. Maibach**, Department of Dermatology, 90 Medical Center Way, Surge Building Room 110, University of California, San Francisco, CA 94143-0989, USA
- (2) **Anton Ficai**, Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest, Romania
- (3) **Carmen Limban**, University of Medicine and Pharmacy Carol Davila, Faculty of Pharmacy, Romania
- (4) **Christian Hellmich**, Institute for Mechanics of Materials and Structures, Faculty of Civil Engineering, Vienna University of Technology, Austria
- (5) **Evghenia Bezirtzoglou**, Democritus University of Thrace Faculty of Agricultural Development, Department of Food Science and Technology, Greece
- (6) **Frank Trixler**, Center for NanoScienc & Department for Earth and Environmental Sciences, Ludwig-Maximilians Universität München, Germany; Open Research Laboratory, School of Education, Technische Universität München, Germany.
- (7) **Fu-Zhai Cui**, Laboratory of Advanced Materials, Department of Material Science and Engineering, Tsinghua University, Beijing, P.R. China.
- (8) **George Dan Mogosanu**, University of Medicine and Pharmacy, Craiova, Romania
- (9) **Jose Luis Balcazar**, Catalan Institute for Water Research, Girona, Spain
- (10) **Keng-Shiang Huang**, The School of Chinese Medicine for Post-Baccalaureate, I-Shou University, Ta-Hsu Hsiang, Taiwan
- (11) **Keng-Liang Ou**, College of Oral Medicine, Taipei Medical University, Taiwan
- (12) **M.V. Reddy**, Departments of Physics & Chemistry Graphene Center, Advanced Batteries Lab, National University of Singapore, Singapore
- (13) **Mariana Chirea**, University of Porto, Faculty of Science, Portugal
- (14) **Mihaela Badea**, University of Bucharest, Faculty of Chemistry, Romania
- (15) **Nazmiye Altintas**, Faculty of Medicine, Parasitology Department, Izmir, Turkey
- (16) **Rodica Cristescu**, National Institute for Lasers, Plasma and Radiation Physics, Laser Department, Laser – Plasma – Surface Interactions Laboratory, Magurele, Romania
- (17) **Veronica Lazăr**, University of Bucharest, Faculty of Biology, Microbiology Immunology Department, Romania
- (18) **Mazeyar Parvinzadeh Gashti**, Département de Chimie, Université Laval, 1045 Avenue de la Médecine, Québec, QC G1V 0A6, Canada
- (19) **Mohammad Mehdi Rashidi**, Department of Mechanical Engineering, Bu-Ali Sina University, Hamedan, Iran
- (20) **Mu. Naushad**, Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia
- (21) **Piotr Lulinski**, Department of Organic Chemistry, Faculty of Pharmacy, Medical University of Warsaw, Poland
- (22) **Zhi Ping (Gordon) Xu**, Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Brisbane, QLD 4072, Australia
- (23) **Fang Xie**, Department of Materials, Imperial College, London, SW7 2AZ, United Kingdom
- (24) **Kateryna Kon**, Department of Microbiology, Virology, and Immunology of Kharkiv National Medical University, Ukraine
- (25) **Mahendra Kumar Rai**, Department of Biotechnology, SGB Amravati University, Amravati, Maharashtra, India
- (26) **Victoria Samanidou**, Department of Chemistry, School of Sciences, Aristotle University of Thessaloniki, Greece
- (27) **Yu Cao**, Key Laboratory of Pesticide and Chemical Biology (Ministry of Education), College of Chemistry, Central China Normal University, Wuhan P. R. China
- (28) **Shinihci Arakawa**, Graduate School, Department of Lifetime Oral Health Care Science, Tokyo Medical and Dental University (TMDU), Yushima, Bunkyo-ku, Tokyo, Japan
- (29) **Santiago Daniel Palma**, Instituto de Investigaciones para la Industria Química (INIQUI, Universidad Nacional de Salta – CONICET). Av. Bolivia 5150, 4400, Salta, Argentina
- (30) **Dan Mihaiescu**, Politehnica University of Bucharest, Faculty of Applied Chemistry and Material Science, Romania
- (31) **Zivile Luksiene**, Vilnius University, Inst. Applied Research, Sauletekio10, 10223, Vilnius, Lithuania
- (32) **Vladimir K. Ivanov**, Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia
- (33) **Jhoan Toro Mendoza**, Centro de Estudios Interdisciplinarios de la Física, Instituto Venezolano de Investigaciones Científicas, Caracas, 1020 A, Venezuela

TABLE OF CONTENTS

959	Gabriela Cucu (Pîrîianu) Bogdan Ionescu Diana Ionescu Mariana Carmen Chifiriuc Grigore Mihaescu	Evaluation of ECLIA method for the early diagnosis of viral hepatitis B and C
963	Anca Diana Cristea Marcela Popa Mariana Carmen Chirifiuc Luminita Marutescu Veronica Lazar Ioana Suciu Andrei Iliescu Bogdan Dimitriu Paula Perlea	The antimicrobial efficiency of endodontic irrigation solutions on bacterial biofilm. A literature review
970	Gabriela Cucu (Pîrîianu) Bogdan Ionescu Diana Ionescu Mariana Carmen Chifiriuc Grigore Mihaescu	Comparative analysis of hepatic cytolysis biochemical parameters and of quantitative changes in protein fractions in patients with chronic hepatitis
