

## Review

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On the competition for the academic position of "professor"

The competition was announced in Government journal No. 8/28.01.2020 for the academic position "Professor" in the field of higher education 7. "Health and Sports", from professional field 7.1. "Medicine" and the scientific specialty "Pediatric Surgery" for the needs of the Department of General and Operative Surgery at the Medical Faculty of MU - Varna and the First Clinic of Surgery at the University Hospital "St. Marina" EAD - Varna.

The scientific jury was appointed by order № P-109-194 /03.06.2020 of the Rector of MU - Varna.

One candidate participates in the competition - Assoc. Prof. Dr. Krassimira Kalinova, MD. He has 30 years of experience as a surgeon. He completed his higher medical education at the Higher Medical Institute - Stara Zagora in 1988, after which he began in 1990 specialization in the First Surgical Clinic of MHAT "Prof. Dr. Stoyan Kirkovich" - Stara Zagora. She began her academic career in the same year, when after a competition she was selected as an assistant at the Department of Propaedeutics of Surgical Diseases.

She acquired a specialty in general surgery in 1995 and in pediatric surgery in 1999. Since her appointment, there has been a significant drive for improvement by attending numerous courses and specializations in the field of general and pediatric surgery, as well as urology at Surgical Clinics in Austria and Germany. Postgraduate qualifications and specializations

In 2003 she received the scientific-educational degree "Doctor of Medicine", and in 2010 she was elected associate professor at the Department of General and Operative Surgery, MF-TrU-Stara Zagora.

For the period March 2012-2016 she was elected Head of the Department of Pediatric Surgery, Anesthesiology and Intensive Care at the Medical Faculty of Stara Zagora. Since 2016 he has been a member of the Department of Special Surgery. For the period 2012-2019 he is a member of the Faculty Council of the Medical Faculty - Thracian University.

Since 2010 he has been conducting a lecture course for 3rd and 4th year for Bulgarian and English students in Pediatric Surgery at the Medical Faculty - Stara Zagora and since 2018 - at the Medical University "Paraskev Stoyanov" - Varna/ 3rd cours Bulgarian and English students /.

She has been a lecturer and examiner in Surgery in the specialty "Nurse" at the Medical College-Haskovo, Thracian University.

Participates as a leader of 4 research projects and a reviewer of scientific papers - Journal "Parasitology International", as well as a reviewer of 4 research projects.

The scientific production of Assoc. Prof. Dr. Kalinova, MD is considered in the following sections: chapter

"TEXTBOOKS AND MONOGRAPHS", There are 2 participations in monographs in Bulgarian, as well as chapters in 2 foreign editions and 15 publications in textbooks in Bulgarian.

"PUBLICATIONS IN FOREIGN PERIODICAL Journals" - presents 5 articles, some of which discuss innovations in the diagnosis of rare and urgent diseases in children. Full-text articles are accepted and printed after precise review, in renowned world journals such as: ACADEMIA JOURNAL OF SCIENTIFIC RESEARCH, Merit research journal- with Impact factor 3.502. (four articles), the topic is mainly on the modern diagnosis and treatment of echinococcosis in childhood and cases in pediatric surgery.

"PUBLICATIONS IN BULGARIAN PERIODICAL JOURNALS" are presented 37 real publications in Bulgarian periodicals, published after participation in a competition for "associate professor", in refereed journals: Surgery, Trakia Journal of Sciences, Visceral Surgery, Medical, GP News of IMAB.

"PARTICIPATION IN CONGRESSES IN BULGARIA AND ABROAD" are presented 26 scientific papers, after the competition for "associate professor", from participations with plenary reports in international congresses in London, Istanbul, Vienna, Berlin, Belgrade, Bucharest, Berlin, Beijing, as well as and numerous participations in national conferences and congresses.

Assoc. Prof. Kalinova is the first author in 24 out of 31 real publications after a competition for associate professor / 77% /, second author - in 4, third - in 3 publications.

38 citations were presented in foreign journals after the election as associate professor. References for impact factor of publications in foreign journals with personal impact factor for articles - 11,214 and total impact factor - 44,814 are presented. IF for citations -33.60, Journalse with IF - 29, without IF - 5.

Assoc. Prof. Kalinova has accredited the scientific specialty Pediatric Surgery for the period 2012-2017 and is the scientific supervisor of 2 doctorants, one of whom successfully defended his dissertation in 2019.

### **Purulent-septic surgery**

The issue of the diagnosis and etiopathogenetic treatment of SIRS and atypical appendicitis, anaerobic infection, as well as the diagnosis and etionatigenetic treatment of perforated peritonitis is being developed.

Development of the issue of diagnosis and etiopathogenetic treatment of acute purulent infection in adults and children, considering the importance of inflammatory predictors and preoperative assessment of the disease.

A first-of-its-kind study was conducted and a critical analysis of the complex of modern preoperative markers of inflammation of atypical appendicitis associated with SIRS, the applied perioperative therapeutic approach, in order to reduce the hospital stay of the operated and the type of surgery / conventional or laparoscopically/. Contributions with practical-applied character on the basis of personal practical experience - an adequate diagnostic-therapeutic algorithm for diagnosis and treatment has been developed

A contribution to the study was to clarify the sensitive markers of inflammation (leukocytosis, CRP, ferritin, procalcitonin, IL-6, IgG and IgM) and their association as predictive of SIRS outcome. The microbiological manifestation of the disease / mono- and polyinfection /, the type of inflammation of acute appendicitis and its localization, compared with the positive criteria of SIRS, were studied. The analysis of the manifestations of SIRS and the applied perioperative therapeutic approach /perioperative antibiotic therapy / in order to reduce the hospital stay of the operated is adequate and practical. The results also analyzed the duration of hospital stay in acute appendicitis with SIRS and the type of surgery.

The problem of surgical sepsis, as a possible complication of the perforated appendix / with its atypical forms / and perforated echinococcal cyst, is thoroughly considered in the scientific articles.

Development of the problem of felonosis, lymphoproliferative diseases, mesenteric non-specific lymphadenitis in childhood - diagnosis and treatment. The inflammatory laboratory predictors of OHC diseases have been identified and analyzed in a project.

### **Endocrine surgery**

The indications for surgical intervention in nodular goiter and dispensary follow-up, especially in children, are specified.

The indications for surgical intervention in thyroiditis and Hashimoto's and thyroid cancer are specified, as well as their dispensary follow-up.

The problem of the indications and surgical treatment of juvenile myasthenia gravis has been thoroughly considered.

### **PEDIATRIC SURGERY**

For the first time in the pediatric-surgical practice in our country a thorough and systematic study of the literature data, diagnostic and treatment methods for hepatic and pulmonary echinococcosis, as well as rare localizations has been made.

Based on the results of the operative interventions, a relative assessment has been developed on the basis of the sensitivity of the applied modern diagnostic methods in the uncomplicated and complicated forms of echinococcosis.

Systemic studies of the immune reactivity of children with echinococcosis have been performed, establishing changes in the indicators in these patients, some of which are of a prognostic nature.

Introduction in the pediatric-surgical practice ultrasound monitoring of the dynamics of development of the residual cavity after surgical intervention by the closed method in hepatic echinococcosis.

Consideration of the rare localizations of echinococcosis and non-parasitic cysts of the spleen and kidney in children and their surgical treatment.

A modified working classification for echinococcosis in children, based on etiopathogenetic principle, has been developed for the needs of routine pediatric surgical practice.

Development of the problem for treatment of mesenteric cysts and ileus in children.

Etiopathogenetic refinement of the treatment of vascular abnormalities in children.

Development of the problem of intraoperative autosplenization after splenectomy.

In the field of pediatric urology the results between two- and one-stage urethroplasty in children with proximal hypospadias are compared, as well as the time for correction is specified.

Contributions are also the articles on laparoscopic cholecystectomy in children- single /SILS / - and multiport.

The possibilities of intraoperative ultrasound are analyzed as a supplement to the standard intraoperative exploration.

### **Thoracic surgery**

A diagnostic and treatment algorithm for echinococcosis of the lung has been developed on the basis of an analysis of the achieved operative results of 15 years of observation in adults and children, with a very good resolution.

The indications for surgical treatment of pulmonary complications are considered.

### **Monographs and textbooks**

- "Handbook of Outpatient Surgery" 2000
- "Surgery- Clinical Surgery" - volume III - 2000;
- "Surgical Diseases - for Medical Colleges" - 2001

- "Symptoms and syndromes in surgery and rare surgical diseases" - 2004.
- Surgical diseases for medical professionals -2012
- Surgical diseases and pediatric surgery for medical students -2015

### **Monographs - 2**

1. K. Kalinova. Symptoms and Syndromes in Surgery and Rare Surgical Diseases ", 2004, edited by Atanasov A and A. Kehayov Kainadina Publishing House ISBN: 978-954-01-3792-6
2. K. Kalinova. Rare localizations of cystic echinococcosis in childhood. Academic Publishing House - Stara Zagora, 2019 ISBN: 978-954-01-3792-6

### **Chapters from monograph-2**

- Kalinova K. Echinococcosis today- medico-social problem. Possibilities for bioterrorism. Book: Risk infection and possibilities for biomedical terrorism. 2003, IOS Press, Amsterdam, Netherlands, Vol.361
- Krasimira Kalinova: Chapter "Gastroesophageal Reflux Disease in Infants and Children". Monograph "Thoracic Surgery in Infants and Children", 2014. Editors: Dr Vivek Gharpure and Dr G R Prasad, University edition, Aurangabad, India 431001

### **Textbooks and exercise guides**

1. Kalinova K. Significant surgical diseases in childhood - In: Handbook of outpatient surgery - II revised edition - Publishing House "Knowledge" -2000, pp.252-283 ISSN 954-621-179-6
2. Atanasov Al., K. Kalinova - Surgical diseases of the spleen - Surgery In: Clinical Surgery - Volume III, Znanie Publishing House, 2000, pp. 427-438 ISBN 954-621-140-0
3. K. Kalinova. Examination of a surgically ill child. Handbook of Pediatrics edited by Prof. G. Petkov. Knowledge Publishing House, 2000 ISSN 978 954-338-049-4
4. Kalinova K. Means and basis of surgical treatment. Surgical Diseases for Medical Colleges, First Edition. Znanie EOOD Publishing House - 2001 ISSN 978-954338-049-6
5. Kalinova K. Asepsis and antiseptics. Surgical Diseases for Medical Colleges, First Edition. Knowledge Publishing House - 2001 ISSN 954-621-179-6
6. Kalinova K. Thermal trauma. Surgical diseases for medical colleges, First edition. 2002 ISSN 954-621-179-6

7. Kalinova K. Pediatric surgery. Surgical Diseases for Medical Colleges, First Edition. Knowledge Publishing House – 2001 ISSN 954 338-049-6
8. Kalinova K. Hernias of the anterior abdominal wall in childhood; from Surgical Diseases to Medical Colleges. First edition. Acad. Publishing House - TrU- 2001 ISSN 954 338-049-7
9. Kalinova K. Purulent Surgery In: Surgical Diseases - Znanie Publishing House - 2001 ISSN 978-954338-049-1
10. K. Kalinova. Echinococcosis in childhood. In Pediatric Surgery - Guide to Atlas Surgery. Volume XIII under the editorship of Prof. Dr. O. Brankov dmn. Academic Publishing House "Marin Drinov" 2011.p.257-264 ISSN 978-954 322 371 8
11. K. Kalinova, D. Sivrev. Surgical diseases with pediatric surgery for master and bachelor's students. Revised edition. Knowledge Publishing House – 2012 ISSN 978-954338-049-1
12. Means and base for surgical treatment. Structure and equipment base for surgical treatment. Operating block - chapter in the textbook "General Surgery" ed. Academic Publishing House of the Thracian University of Stara Zagora, 2013, edited by Assoc. Prof. Dr. Hristo Stoyanov  
ISSN 954-234-049-5
13. Echinococcosis - chapter in the textbook "General Surgery" published by the Academic Publishing House of the Thracian University of Stara Zagora, 2013, edited by Assoc. Prof. Dr. Hristo Stoyanov ISSN 954-234-049-5
14. K. Kalinova, Surgical diseases with pediatric surgery and clinical anatomy for bachelors and masters - specialty medicine. Revised edition, Academic Publishing House TrU Stara Zagora - 2015, edited by Assoc. Prof. Dr. Kr. Kalinova. ISSN 978-954338-049-1
15. Pediatric Surgery, chapter in the textbook Surgical Diseases with Pediatric Surgery and Clinical Anatomy for Bachelors and Masters of Medicine Revised edition, Academic Publishing House Thracian University - 2015, edited by Assoc. Prof. Dr. Kr. Kalinova ISSN978-954338-049-7

## CONCLUSION

The scientific activity of Assoc. Prof. Krassimira Kalinova, MD meets the requirements for acquiring the academic position of "professor", defined in the Regulations for the development of the academic staff of MU - Varna. The publications in journals after doctoral studies are over 31. 4 real full-text publications with impact factor are presented, as the rest are published in refereed journals. The presented reports are 26. He has 10 years of work experience as an

associate professor. The study load is above the norm. It has a high citation rate and a good impact factor.

He has 30 years of surgical experience, after many specializations at home and abroad. She has specialized in Freiburg, Germany and Salzburg, Austria. He has many participations in the scientific program of the Congresses of EUPSA, ESPES, BAPS and WOFAPS in Bern, Switzerland; Rome and Milan, Italy; Zagreb, Berlin, Mainz, Hanover and many others. She is a member of the Union of Scientists, of the BCD, and was in its Presidency. He is a member of the Bulgarian Association of Pediatric Surgeons and its board. He is a member of EUPSA, UEMS and WOFAPS.

In his daily practice he performs diagnostics and surgical treatment of various planned and emergency operations for diseases of the visceral organs, as well as urological diseases in childhood.

Fluent in English and Russian, German-B1. Computer literacy - Windows XP Pro, Excel, Power Point, Word, Stat View

She has given academic lectures at the Clinic of Surgery and Pediatric Surgery at the University Hospital, Wurzburg and at the University Hospital Porto, Portugal.

He participated in the Special 25th Silver Anniversary Edition of Who`s Who in the World (November 2007,2008); в International Biographical Center`s, Cambridge, England, 2000 Outstanding Scientist 2008-2009 Dictionary of International Biography and 2000 Outstanding Intellectuals of the 21s Century.

- Participation in the International Biographical Center`s, Cambridge, England, Who`s Who in the World of Women 15th Fully Revised Edition 2009 Dictionary of International Biography and 2009 Outstanding Intellectuals of the 21s Century.

In view of the above, I am convinced that Assoc. Prof. Dr. Krassimira Kalinova MD meets the academic and scientometric criteria for holding the academic position of "Professor" at the Medical University – Varna and I recommend of the scientific team to vote positive for choice of Proffesor ot associate prof. Krassimmira Kalinova.

05.08.2020

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