

**"VICTOR BABEȘ" UNIVERSITY OF
MEDICINE AND PHARMACY TIMIȘOARA
DOCTORAL SCHOOL
MEDICINE**



**ASSESSMENT OF CARDIOVASCULAR
DYSFUNCTIONS ASSOCIATED TO VARIOUS
PATHOLOGIES**

ABSTRACT

Assistant Professor Tudoran Cristina

SUMMARY

In the next presentation I will detail my professional evolution and development in the specialty of cardiology, as well as my academic career. I graduated in 2008 the "Victor Babeș" University of Medicine and Pharmacy from Timișoara. In the same year, after obtaining my bachelor's degree, I passed the national exam for the admission in residency and I started my training in the speciality of cardiology. In 2010 I was admitted to the PhD school and began the elaboration of my thesis entitled "Cardiovascular alterations in thyroid dysfunctions: diagnosis and treatment" which I completed in 2012 obtaining the title of doctor in medicine with the qualification "Magna cum laude".

Scientific activity / scientific achievements: the research domains approached by me during the past years have been focused on the following main topics in the field of medicine - cardiology, resulting until now, in the elaboration of 39 papers published in medical journals indexed in Web of Science Core Collection (ISI) of which 35 as principal author, 12 as first author, and other 18 articles published in non- ISI indexed international and national journals, as well as the contributing to the development of several chapters in 10 specialty books and textbooks for students from the Faculty of General Medicine of the "Victor Babeș" University of Medicine and Pharmacy from Timișoara. The main domains I addressed are: cardiovascular complications associated with the thyroid pathology, research developed as a follow-up of my PhD thesis, a topic that I later extended to the study of cardiac alterations encountered in chronic kidney disease in the stage of hemodialysis and in mental disorders such as depression and anxiety commonly diagnosed in patients with heart diseases. For the past 2 years, in the context of the SARS-CoV-2 virus pandemic, I have focused my research on the diagnosis and evaluation of cardiovascular complications associated with this infection, but also on the longer-term consequences of this disease described by terms such as post COVID-19 syndrome. Referring to the fundamental research, I contributed together with colleagues from the computer science department of the West University and Polytechnic University of Timișoara, to the elaboration of a mathematical algorithm that

allows an optimization of the echocardiographic image in patients with deficient echocardiographic window.

As a result of this research and publishing activity, I managed to obtain until now a cumulative impact factor, as main author, of 81.888, a Hirsch index of 7 and a total number of 104 citations in Clarivate. Seven of my scientific papers published in prestigious journals were awarded at the 2020 and 2021 UEFISCDI PRECISI competitions.

In recognition of my work, I was invited to be a member of various editorial boards of several ISI-indexed medical journals. Thus, I am part of the editorial staff of the "World Journal of Clinical Cases" with an impact factor (IF) of 1.337 and I am a member of the reviewer board of the Journal of Personalized Medicine with IF 4.945, Clinical Medicine Insights: Case reports with IF of 0.58, and Reviews in Cardiovascular Medicine with IF of 2.271.

Subsequently, as a result of my research in the field of cardiovascular complications associated with COVID-19 and of the gained experience, I won, through a competition, a grant for 2 years, funded by the Romanian Academy of Scientists, which I currently lead as director. Within it, I intend, together with my colleagues, to continue my research on post-COVID-19 pathology that we want to finalize by publishing the results in at least two other articles in ISI indexed journals with the highest possible impact factor.

I want to continue and further develop my academic activity by elaborating new teaching materials, guiding students to prepare their bachelor's theses, motivating them to participate in student scientific communication sessions, preparing them for the bachelor's exam and the admission to residency.

I was constantly preoccupied to improve my professional training, and since I work in a cardiology clinic focused mainly on the non-invasive exploration of patients with cardiovascular diseases, I also acquired the competence in vascular ultrasound after graduating a training in this speciality. At the same time, in 2019, I participated to an international course in advanced echocardiography, organized and presented by Dr. Thomas Binder from the Medical University of Vienna, also a member of the Austrian

Society of Cardiology, and I obtained the Echo Master Class certificate. In 2020, I passed the exam to become a senior physician in cardiology.

I was permanently involved in the promotion of the academic environment. With the elaboration of the habilitation thesis, I intend to continue my academic and professional development by applying new principles and concepts of diagnosis, evaluation and treatment in the cardiology clinic of the Emergency County Clinical Hospital "Pius Brînzeu" in Timișoara. I will continue the research work and teaching activity that is constantly required to adapt to the new teaching methods specific for our century and to the many innovations in the field of computer science.

Through my didactic and scientific activity, I want to align with the strategy of our university to promote interdisciplinary research, with the development of high performing human resources that would lead to increasing both, of the national and international visibility of the University of Medicine and Pharmacy "Victor Babeș" Timișoara, so that it could reach the highest possible rank in the university classification.