

ABSTRACT

Of the habilitation thesis entitled: «**OCCUPATIONAL PATHOLOGY: FROM EXPOSURE TO BIOLOGICAL EFFECTS**» elaborated by Prof. Agripina Raşcu, MD, PhD

The habilitation thesis entitled “Occupational pathology: from exposure to biological effects” comprises the professional, scientific and academic activity I have carried out over the past 16 years, after the public defence of my PhD thesis, while at the same time including my accomplishments in the field of occupational medicine, emphasizing my permanent interest in developing knowledge in specific and multidisciplinary scientific areas, and increasing the visibility of the complex specialty I work in.

The thesis is structured in three main sections and respects the criteria recommended and approved by CNATDCU.

SECTION I, entitled "**Professional and scientific activity**", includes the results of my professional and academic activity.

Chapter I.1 – The subsection on professional development consists of a brief presentation of my professional evolution since graduating the General Medicine Faculty of the "Carol Davila" University of Medicine and Pharmacy in 1983, of the professional route from the position of physician to that of consultant, from rotations I attended both in Romania and abroad, postgraduate studies, the modules attended and the competency examinations I have successfully passed to a successful clinical activity.

Chapter I.2 comprises the achievements and the professional recognition, the national appreciation, the results obtained as a member of the management team of the Romanian Society of Occupational Medicine, as deputy chief editor and chief editor of the Romanian Journal of Occupational Medicine, reviewer of two important journals, initiator, organizer and manager of a complex functional respiratory exploration laboratory and sleep disorders laboratory within the Occupational Medicine Clinic at the “Colentina” Hospital in Bucharest, member of the team responsible for drafting occupational medicine guidelines in Romania.

The presentation of the academic progress from assistant lecturer to university professor can be found in **chapter I.3**. Throughout my academic years, the target was to involve students

and residents in the learning process, to familiarize them with and to find meaningful ways to motivate them in the field of research. I am convinced that by combining study, clinical practice and research, a good professional development can be ensured. In my academic activity, I have taken into account that research bases are prefigured with the preparation of the license thesis and must be consolidated later on during the residency period. I have coordinated over 20 license theses; I have involved residents in scientific research and the results of the research were published in international indexed journals and / or presented at congresses or conferences in the country or abroad. I have always considered that, in the activity of training young doctors, an important element is represented by the written materials. I am a coordinator (a single author in 3 monographs, respectively), first author or co-author in 6 chapters of treaties, author in 6 specialized books and author in 2 chapters published by international publishers. **Chapter 1.4** focuses on the scientific and research activity with a brief incursion into the PhD research period, followed by a synthetic presentation of the postdoctoral research areas.

The scientific research activity focused on five main directions, priority research directions for my professional portfolio:

- A. from occupational exposure to respiratory pathology,
- B. from occupational exposure to oncological pathology,
- C. from exposure to dermatological pathology,
- D. exposure to biological pathogenic agents and the risk for healthcare personnel
- E. new and emerging risks - new health risks.

There is a brief review of recent literature data for each addressed topic, which justifies the interest for the respective direction of study, as well as for the research results. I have presented the addressed topics and supported them with examples and references of the most relevant personal contributions in the field. The research results can be found in articles published in high visibility national and international journals, or in volumes of prestigious scientific manifestations. I have published extensively 21 articles in ISI indexed journals, 39 articles in BDI indexed journals and over 40 articles in ISSN or ISBN journals. I have a Hirsch index of 6 in the ISI Web of Science.

SECTION II presents the strategy, the directions and the priorities for the evolution and development of my professional, scientific and academic career, as well as ways of putting into practice the plans of career development, with the integrated approach of the research in multidisciplinary areas. In order to involve students, residents and future doctoral students in the field of interdisciplinary research in occupational medicine, pneumology and sleep

medicine, I propose to coordinate a new edition of the book "Introductory notions in functional respiratory exploration. Practical applications in occupational medicine", with Marina Oțelea and Fayssal El Husseini and include pathophysiological features of the alteration of the ventilatory function and sleep-related breathing disorders. Along with my colleagues from the Department of Occupational Medicine, I will be writing a course on occupational respiratory pathology for English speaking students who are deficient in such resources. The ongoing international projects COST (COST RANCARE CA 15208 project title: "Rationing - Missed Nursing care: An international and multidimensional problem" (RANCARE)), 20.09.2016 - 19.09.2020 and respectively COST Action OMEGA NET (2018-2022), are a pivot of the research.

These multinational collaborations, in which I have the role of national manager, respectively substitute manager, allow me to develop partnerships with researchers from other university centres and research institutes and approach different topics of interest in the future. The direct result of the activity of guiding young researchers will materialize into publishing high standard scientific articles in international journals. I will continue to increase the visibility of Occupational Medicine as a specialty by publishing articles in international journals. As editor-in-chief of RJOM, I intend to increase the visibility of this BDI journal, so that it will be brought to ISI standards. If I would have the opportunity to coordinate the activity of the young PhD students, I will support their research activity and make their results known in all the scientific environments I am part of.

SECTION III, entitled "**Bibliographic references**", contains 192 titles of papers that support the truthfulness of the data presented in the habilitation thesis.