



Universitatea *Transilvania* din Braşov

HABILITATION THESIS
SUMMARY

**PRENATAL DIAGNOSIS, COUNSELLING AND CONDUCT IN
CONGENITAL HEART DEFECTS**

Domain:Medicine

Author: Assoc. Prof. Dr. PLEŞ Liana
UMF “Carol Davila”, Bucharest

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The habilitation thesis named '**PRENATAL DIAGNOSIS, COUNSELLING AND CONDUCT IN CONGENITAL HEART DEFECTS**' includes three sections as recommended by CNATDCU and the provisions of art. 300 par. (2) of the National Education Law no. 1/2011.

In the first section of the thesis, I presented both my professional and didactic work following all the stages that I have passed during 26 years of academic career. In this chapter, I detailed the clinical work, the research, the participation to scientific events, the affiliations to scientific societies and the main activities that I am currently coordinating within 'Bucur' Clinic of Obstetrics and Gynaecology Department 13.

In the same section, I presented my PhD. thesis named 'Foetal Monitoring Using Biophysical Methods' that I defended it in front of the audience in 2001 and which was coordinated by PhD Professor Dr. Nicolae Crisan from 'Carol Davila' University of Medicine and Pharmacy from Bucharest. Given the present PhD. thesis, I started a vanguard field in Romania at the respective time, it was the monitoring of the foetus before and intrapartum by means of ultrasonography, the cardiotocographic records, starting methods in the panoply of the obstetrical investigation means in our country. As a result of my studies, I developed a predictive behavioural pattern of foetuses at risk for antepartum hypoxia and diagnostic algorithm and attitude in ante and intrapartum foetal distress, with application and practical interest for our specialty. I can state that I was at the forefront Further Training in maternal-foetal medicine, specialization for which I obtained jurisdiction both inland and to the well-known Paris Descartes University in the 2012.

My research activity is sustained by the publication of 11 articles ISI Web of Science, 79 articles indexed BDI / CNCSIS, 8 research grants (two as director and six as a member of the research team), 64 publications as ISI abstracts, 77 scientific papers or different contributions.

My editorial activity was represented by six monographs as main author among which the most important are: 'Biophysical Monitoring Methods of the Foetus' Anca Stanescu, Liana Pleş, Infomedica Publishing House 2004, 'Handbook of Laparoscopy in Female Genital Adnnexes Pathology' Liana Pleş, N Pleş, University 'Transilvania', Braşov, 2008. 'Colposcopy In Images' Liana Pleş, Elena Popa Infomedica Publishing House, 2009, 'Atlas of colposcopy' Liana Pleş Mircea Octavian, Poenaru Anca, Daniela Stănescu, Carol Davila University Publishing House, 2017.

I am the co-author of over 21 monographs and textbooks among which I mention author of chapter 3, 'Pelvic Inflammatory Disease' in the Treaty of Surgery, Edition II - Vol. V, Obstetrics and Gynaecology, Romanian Academy Press; 2014.

I detailed the main directions of development of academic and scientific research in section number 2, taking as a starting point studies and grants in which I have been participated in foetal medicine and prenatal diagnosis in terms of interdisciplinary diagnostic and other specialties.

Directly related to the title of the habilitation and as project manager, 'Integrated Counselling Methodology, Unitary Reporting and Risk Management in Prenatal Diagnosis of Foetal Congenital Anomalies' one of the main directions of career development is focused on the scientific support and prenatal diagnosis expansion of congenital anomalies in a consistent manner allowing the creation of unique register of foetal malformations.

I propose a coherent diagnosis strategy and a general reporting system of antepartum foetal malformations and the development of an integrated system for pregnancies monitoring and couple counselling and supervisory in pregnancies with malformed foetuses. Therefore, I intend to take part to as many national and international scientific meetings in order to develop my scientific and teaching abilities. Also with the support of UMF 'Carol Davila' and Scientific Societies and Physicians College we will try to organize courses and workshops for students, resident physicians, specialists, midwives to disseminate research results and increase their scientific level.

I want to create a core research to "Bucur" Maternity where I am performing in order to deepen and contribute to the development of the themes in the area of maternal-foetal medicine,

endoscopic surgery, early diagnosis of cancer and in the areas of border and interdisciplinary as those of management risk prenatal diagnosis and medico-legal aspects of the present increasingly in our specialty.

I will continue to improve the scientific and education teaching skills through trainings and participation to national and international scientific meetings. I will disseminate information acquired through training and workshops for students, resident physicians, specialists and general practitioners.

The main purposes concentrating my further academic career are:

1. To develop my capacity, capability, scientific, professional and academic level;
2. To improve my teaching and pedagogical skills;
3. To reinforce my academic career by obtaining the title of Professor in specialty Obstetrics and Gynaecology;
4. To organise a department of Maternal-Foetal Medicine to “Bucur” Clinic;
5. To establish and coordinate a multidisciplinary research teams to continue and access my research and educational projects;
6. To support the work of disseminating or publishing the results and their practical application;
7. The affiliation to prestigious European institutions in the field of prenatal diagnosis;
8. We shall support the Constitution of National Registry of Congenital Malformations and Romania's membership to EUROCAT.

The references which have been used to the development and support of this thesis are presented to section III.

