

Summary

My first implication with a patient with a malignant hematological disease was in the third year of the university of medicine when I started to work at the same Hematology Clinic I am working at present in a group led by prof.dr.Benedek Istvan who formed me as a doctor and who helped me tremendously in my research activity along all these years to the present.

After I graduated at the University of Medicine and Pharmacy of Targu Mures in 1988 with a grade of 9.66 I had two years of internship which I spent mostly at the same clinic, which helped me to learn about patient-doctor interaction and I gained extremely important clinical experience which I used during my whole clinical activity until present. I had a period of 3 years spent being a family doctor after which I became a researcher of the Medical Research Center in Targu Mures my field of research being also hematology focusing on acute leukemias.

I started my PhD research investigating the hematological modifications of healthy individuals who work in toxic work environment mainly with organic solvents and also the effect of these toxins on the central nervous system of the analyzed subjects. The main role of my research was to detect those early hematological and physical modification that can determine the possible appearance of a malignant hematological diseases of hematological modifications. I consider that my study revealed significant modifications in the peripheral blood important disturbances in the function of the central nervous system that can lead to neurologic and psychiatric modifications and the appearing of severe malignant hematological diseases. All these modifications emphasize the necessity of monitoring the exposed persons at risk from the toxic environment.

I finalized my thesis in 2000. At that time I was already a clinical hematologist at the same hospital dedicating my time and energy to the diagnosis and treatment of patient with acute and chronic leukemias, lymphomas, multiple myelomas and other non-malignant hematological and immunological diseases.

My main aim was to introduce in our clinic and in our country the bone marrow transplantation because at that time this method of treatment was not being performed in Romania. Together with a few colleagues from Bucharest - Fundeni, Targu Mures and Timisoara we started the necessary preparations to start the activity in order to establish a bone marrow transplant center as a national premier. In our center it was the effort of practically four physicians Prof.Dr. Benedek Istvan, myself, Dr. Kopeczi Judit Beata and dr.Kakucs Eniko and the most precious activity of 6 nurses. We participated on several international training courses and made all the necessary preparations to be able to start the bone marrow transplant activity. It began in 2001 and till the present time we performed more than 450 transplants both autologous and allogeneic with results comparable to the results of experienced centers all over Europe. We as a center are included in the European Bone Marrow Group of Transplantation (EBMT) our center having an inregistration CIC number of 178.

All these years I focused my activity on chemotherapeutic treatment and transplantation of our patients and my research activity articles and the international studies I participated where all went to develop our activity in the benefit of my patients. As a teacher of the University of Medicine and Pharmacy of Targu Mures I dedicated my activity to prepare as good physicians as possible, teaching the final year of general medicine students. I conducted several license theses all in hematology and I am pleased to notice that the students' interest grows regarding this domain of activity.

As a general objective of my university career development plan is to continue my professional and academic development, by obtaining a leader position in my field of activity, especially focusing on clinical research in hematological diseases. By obtaining the habilitation could lead to development of a research group which could benefit from my clinical and academic experience and could participate in national and international research grants.

Stem cell transplantation has a multidisciplinary benefit and in this sense I must mention that our center together with the Cardiology Clinic performed the

first stem cell transplant in post-myocardial infarction patient and also in national premier the first transplant for a peripheral arteriopathic lesion.

My future development career plan includes introducing new methods of transplant, which have not been performed before until present, such as haploidentical and umbilical cord blood transplantation and also improving the treatment and prevention of the graft versus host disease occurring at transplanted patients.