
Part I.

Czech Stem Cells Registry, former Czech Bone Marrow Donor Registry, was founded in 1991 in the Institute for Clinical and Experimental Medicine (IKEM) in Prague. The Registry is a member of the international network of more than 60 unrelated bone marrow donor registries registering together more than 19 million donors. CSCR celebrated the 20th anniversary of its establishment at the end of 2011.

We would like to thank to all those who support the idea of stem cells donation, to all registered donors and especially to all the donors who underwent the bone marrow or stem cells collection in the past 20 years.

Our main activities:

- Recruitment of new donors
- Initial HLA typing of donors (A,B,C,DRB1)
- Maintenance of the donors' data and records in database
- Maintenance of the data of CBUs (Czech CBB, Eurocord Slovakia)
- Searches of suitable donors and CBUs for Czech and foreign patients
- Additional HLA typing of donors and CBUs according to the Czech and foreign TCs requests
- Coordination of stem cells collections and bone marrow harvests
- Arrangement of the transport of the grafts to the TCs

The Registry focuses on recruitment of new young donors and stem cells donation promotion

- In 2011 new look of CSCR website was introduced with well arranged and comprehensible information for general public and for both new and registered donors
- In 2011 the Registry reestablished cooperation with several blood transfusion centers and started cooperation with several new ones
- The Registry took occasion to participate in different events promoting blood donation to increase public awareness of stem cell and bone marrow donation and to reach new young donors among students and sportsmen.

Initial donor HLA testing is routinely performed by DNA methods in EFI (European Federation of Immunogenetics) accredited laboratory of the Department of Immunogenetics, IKEM. All new donors are A, B, C, DRB1*IR typed. Due to a higher number of new coming donors in the last quarter of 2011, a portion of new donor samples was typed by Histogenetics laboratory, NY, USA, ASHI (American Society for Histocompatibility and Immunogenetics) accredited lab.

A search for a suitable donor is based on HLA matching with DNA typed patient. Other criteria (such as the age, gender, blood group, weight, No. of pregnancies) are also involved. CSCR is connected to other registries all over the world through BMDW (Bone Marrow Donor Worldwide). The interface for the use of EMDIS (European Marrow Donor Information System) enables automated on-line searches. In 2011, new version of Prometheus system provided by Steiner Company was introduced with many changes and new options meeting various users' needs and requests.



In the same way as for donors, the data concerning cord blood units (CBUs) of Czech Cord Blood Bank are available in CSCR database; upon request from TC the Registry asks Czech Cord Blood Bank for detailed information (CBU report).

For foreign patients, the Registry performs all necessary administrative steps and operations which are needed to arrange the bone marrow harvest or stem cell collection of a Czech donor and the transport of the CBU to the international Transplant center.

In 2011 CSCR started cooperation with Eurocord Slovakia – more than 1 700 Slovak cord blood units are included in our database and available for international on-line searches via EMDIS system.

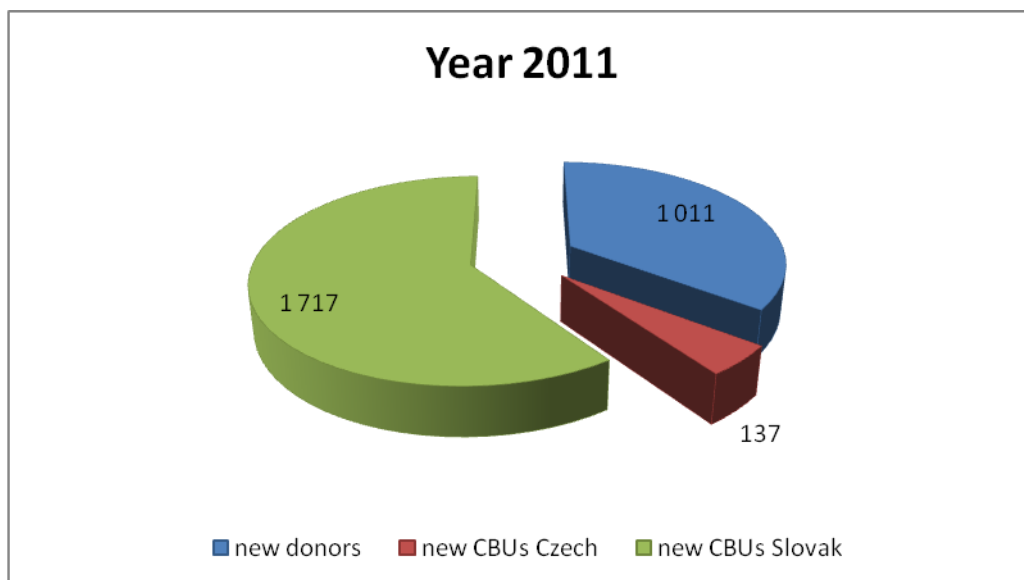


Additional information:

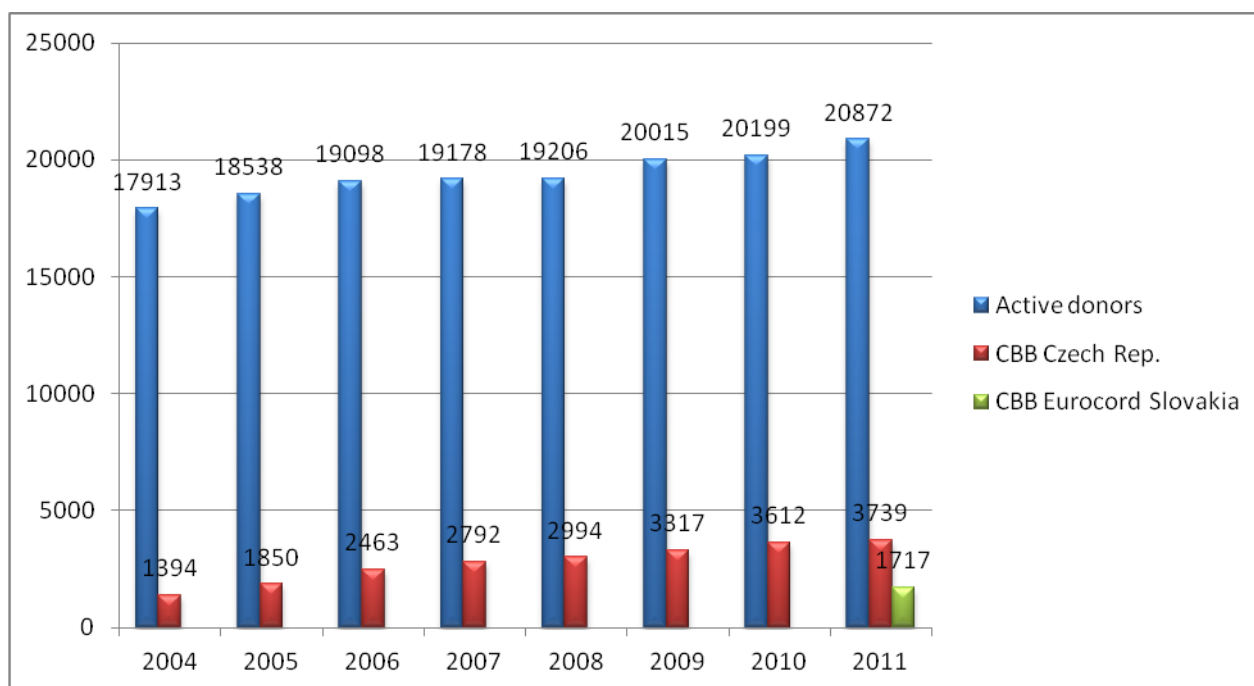
- IKEM and CSCR received a renewal of ISO 9001 certification (first acknowledgement in September 2007)
- **The laboratories** performing the HLA typing and pre-harvest testing of the donors are accredited and hold SIDC approval as diagnostic laboratories working in a tissue establishment.
- **Registry staff** regularly attend educational activities and actively participate in conferences and workshops.

Part II. Performance of CSCR in 2011

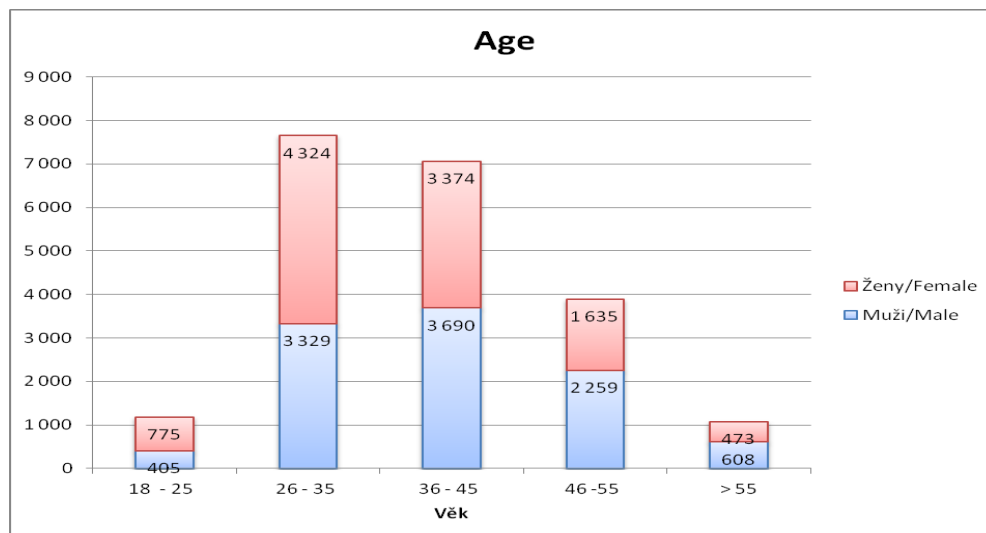
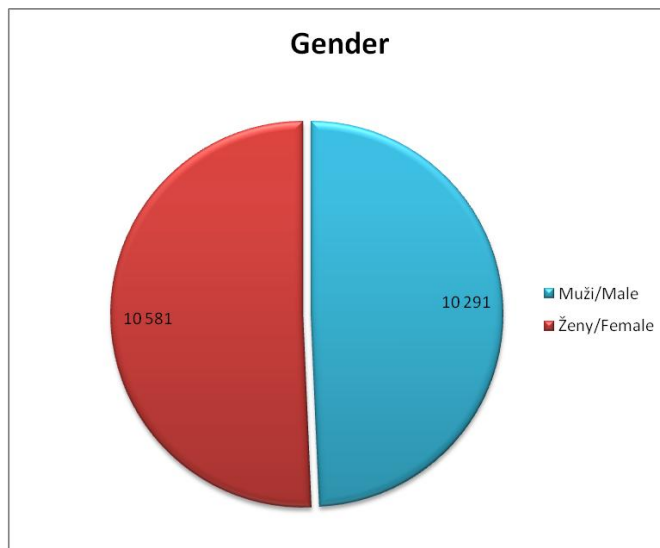
I. During 2011 **2865 new donors and cord blood units were entered in CSCR database**



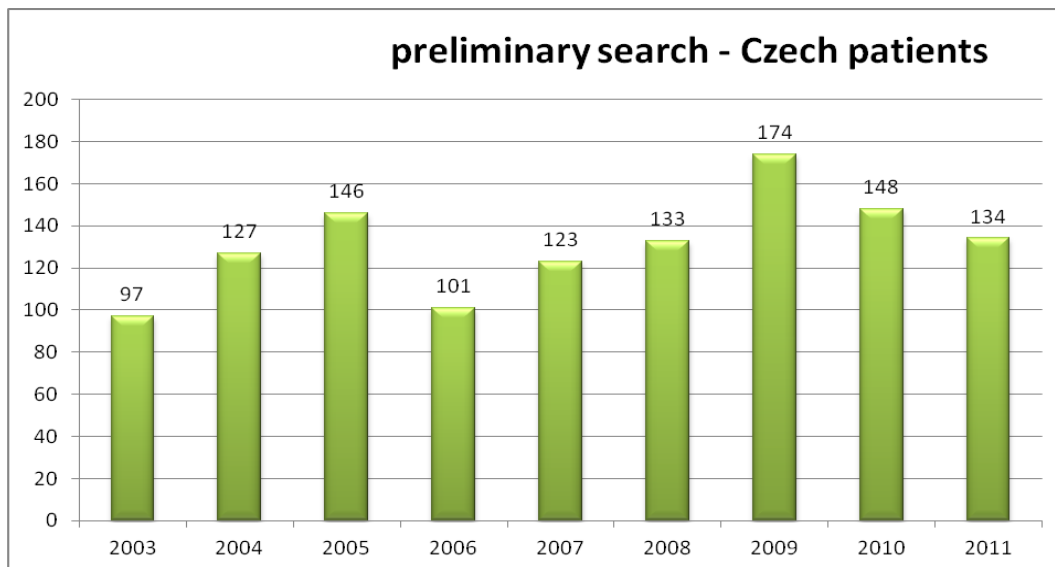
II. **By 31.12.2011** total count of active stem cell donors was **20 872**
and total count of registered cord blood units was **3 739 + 1717**.



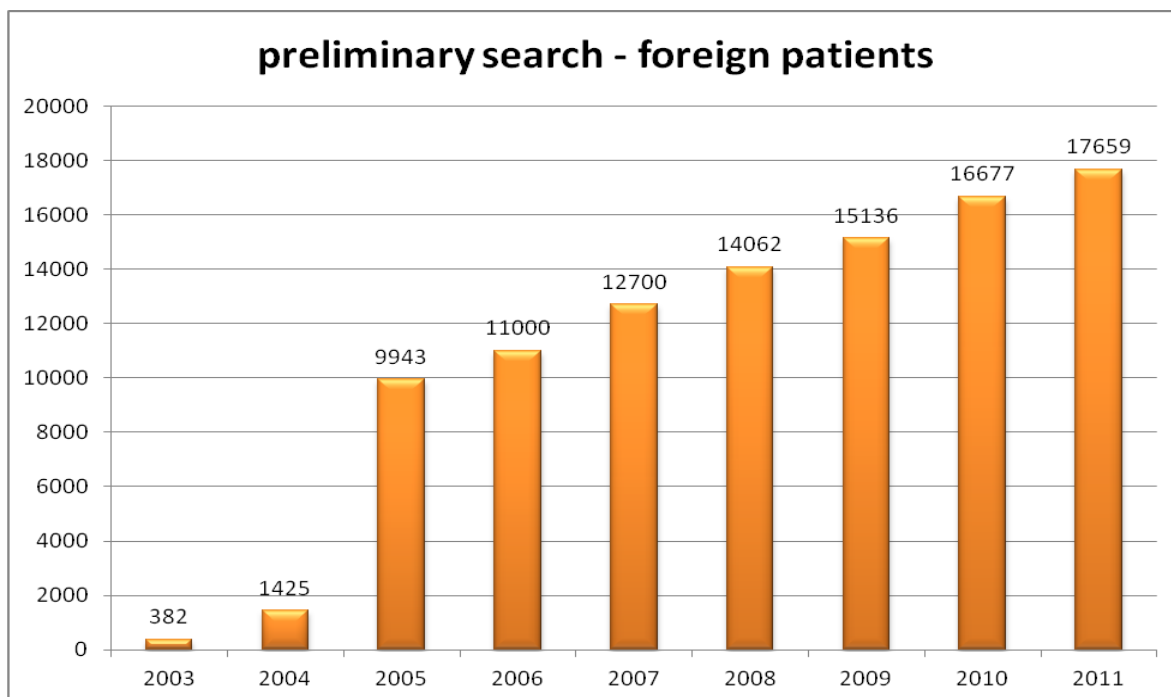
III. CSCR donors – divided according to the age and gender:
Majority of donors is in age group **26 – 35**.



IV. CSCR performed 134 searches for Czech patients in 2011.



17659 searches for foreign patients were performed upon to requests coming from registries all over the world. Constantly growing amount of searches for foreign patients is caused by new registries joining EMDIS system. Preliminary search is performed automatically, the staff of the Registry only operates following requests.

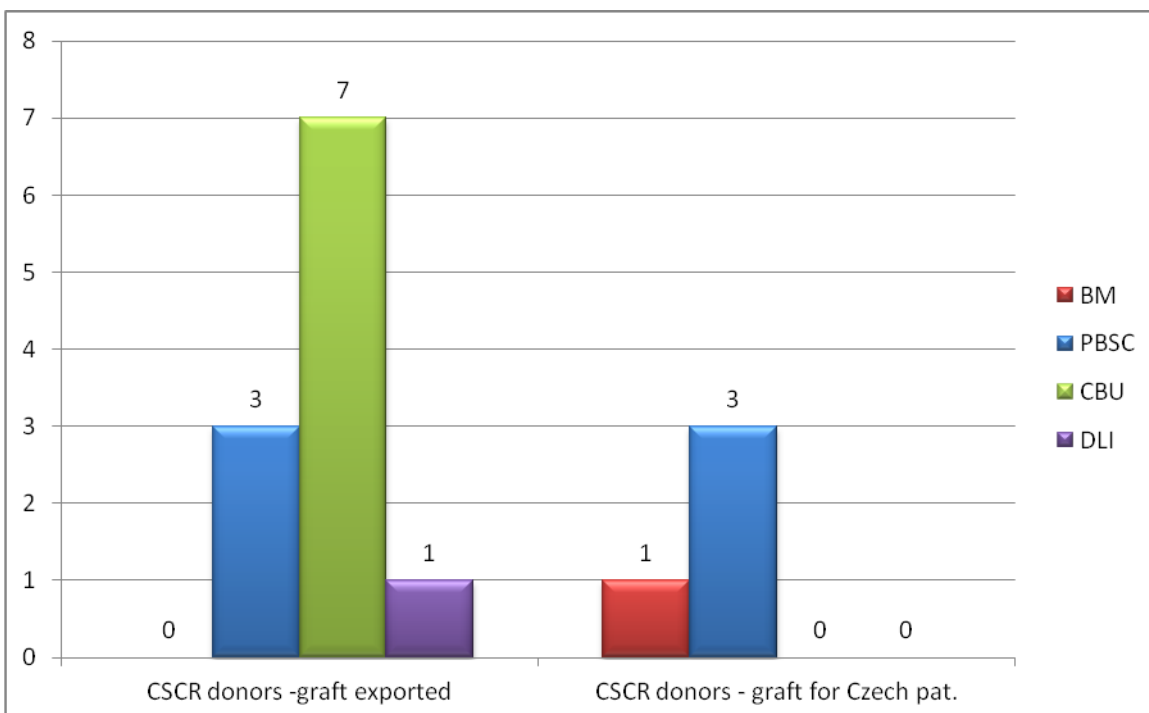
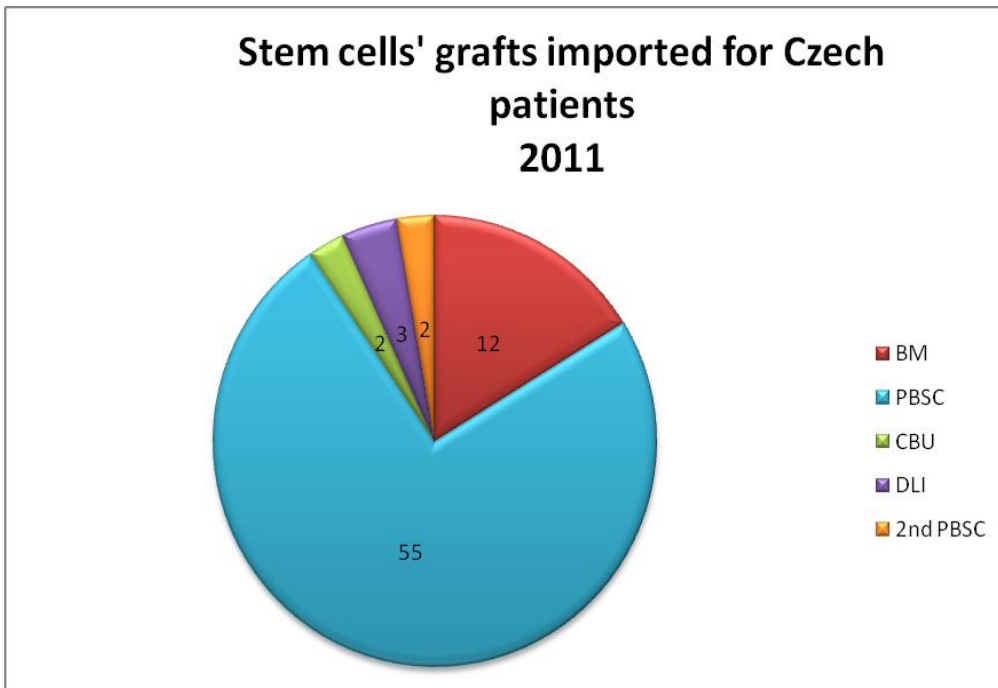


V. Number of mediated transplantations in 2011, according to the type of graft:

Total amount of Czech donor collections (both Czech and foreign patients): **9**

Total amount of exported cord blood units: **7**

Total amount of international donor collections mediated by CSCR for Czech patients: **74**



SUMMARY OF THE CSCR ACTIVITY

