

Hospital Blood Transfusion Center

1. Staffs (April, 2010)

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2. Purpose of Education

Transfusion therapy is a supplementation of the blood component, but it also has aspects of cell therapy and transplantation. So, it is important to practice safe and appropriate transfusion therapy. Clinical tests of transfusion, such as blood type test, are most basic immunological test technique. The accurate understanding and practice of these tests is also necessary for the safety of medical treatment. From this point of view, we educate the students of school of medicine, school of allied health sciences, graduate school of medical and dental sciences, medical doctors, and co-medicals.

3. Research Subjects

- 1) Practice of safe and appropriate transfusion therapy (including prevention of medical accident related transfusion)
- 2) Basic and clinical research of hematopoietic stem cell transplantation

4. Clinical Services (The result of 2010)

- 1) The amount of blood products used

Red cell component products	13,356 Units	(6,766 bags)
Platelet concentration	27,075 Units	(2,400 bags)
Fresh frozen plasma	6864.25 Units	(3,349 bags)
- 2) Autologous blood collection and transfusion

Autologous blood collection	396 cases	(494 times, 953 Units)
Autologous blood transfusion	337 cases	(792 Units)
- 3) The number of clinical tests of transfusion

Blood typing	7,695
Anti red blood cell antibody test	3,513
Cross match	10,040
- 4) Hematopoietic stem cell harvest

Autologous peripheral blood stem cell harvest	15 cases	19 times
Allogenic peripheral blood stem cell harvest	2 cases	3 times
Autologous peripheral mononuclear cell harvest	2 cases	2 times
Allogenic bone marrow harvest	15 cases	15 times

(Including Japan Marrow Donor Program donors)
- 5) Hematopoietic stem cell transplantation
 (The evaluation and preservation of the stem cells were done in our department)

Autologous peripheral blood stem cell transplantation	16 cases	17 times
Allogenic peripheral blood stem cell transplantation	2 cases	2 times
Autologous peripheral mononuclear cell transplantation	2 cases	2 times
Allogenic bone marrow transplantation	15 cases	15 times
Allogenic umbilical cord blood transplantation	4 cases	6 times

5. Publications

Original articles

1. Ohtomo N, Tsuchiya Y, Oishi Y, Aikawa K, Kajiwara M. Construction of a transfusion management system which uses an automatic blood type confirmation system of the blood products and satisfies the conditions necessary for computer-assisted electronic cross-matching. *Jpn J Transf Cell Ther* 56:52-56, 2010.
2. Mitsui N, Kajiwara M, Nagasawa M, Morio T, Mizutani S. A case of Langerhans cell histiocytosis following acute lymphoblastic leukemia. *Jpn J Ped Hematol* 24:93-96, 2010.