

Blood Transfusion service

1. Staffs (April, 2009)

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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 2009)

1) The amount of blood products used

Red cell component products	12,362 Units	(6,318 bags)
Platelet concentration	27,815 Units	(2,437 bags)
Fresh frozen plasma	10,507 Units	(3,446 bags)

2) Autologous blood collection and transfusion

Autologous blood collection	540 cases	(637 times, 1,240 Units)
Autologous blood transfusion	479 cases	(1,061 Units)

3) The number of clinical tests of transfusion

Blood typing	7,672
Anti red blood cell antibody test	3,374
Cross match	9,368

4) Hematopoietic stem cell harvest

Autologous peripheral blood stem cell harvest	12 cases	14 times
Allogenic peripheral blood stem cell harvest	1 case	1 time
Autologous peripheral mononuclear cell harvest	1 case	1 time
Allogenic bone marrow harvest	9 cases	9 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	12 cases	13 times
Allogenic peripheral blood stem cell transplantation	0 case	0 time
Autologous peripheral mononuclear cell transplantation	1 case	1 time
Allogenic bone marrow transplantation	10 cases	10 times
Allogenic umbilical cord blood transplantation	8 cases	8 times

5. Publications

Original articles

1. Shirahata A, Fujisawa K, Ishii E, Ohta S, Sako M, Takahashi Y, Taki M, Mimaya J, Kubota M, Miura T, Kitazawa J, Kajiwara M, Bessho F. A nationwide survey of newly diagnosed childhood idiopathic thrombocytopenic purpura in Japan. *J Pediatr Hematol Oncol* 31:27-32, 2009.
2. Tsuchida M, Ohara A, Manabe A, Kumagai M, Shimada H, Kikuchi A, Mori T, Saito M, Akiyama M, Fukushima T, Koike K, Shiobara M, Ogawa C, Kanazawa T, Noguchi Y, Oota S, Okimoto Y, Yabe H, Kajiwara M, Tomizawa D, Ko K, Sugita K, Kaneko T, Maeda M, Inukai T, Goto H, Takahashi H, Isoyama K, Hayashi Y, Hosoya R, Hanada R. Long-term results of Tokyo Children's Cancer Study Group trials for childhood acute lymphoblastic leukemia,

