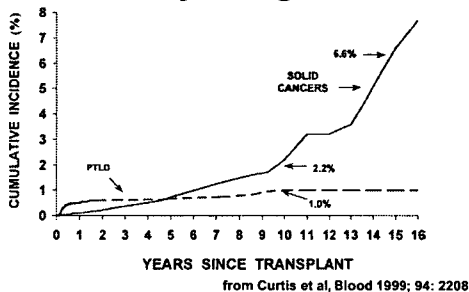


## Secondary malignancies



Cancer	Cum Incidence	Risk factors
BCC	8.4% at 25 y	TBI, age, White, chronic GVHD
SCC	5.5% at 25 y	Age, acute and chronic GVHD
Oral cavity	1.9% at 10 y	TBI, chronic GVHD
Thyroid	0.5% at 10 y	TBI, age, chronic GVHD
Liver	0.4% at 10 y	TBI, hepatitis C
Melanoma	not available	TBI, T cell depletion
Breast	11% at 25 y	TBI, age, interval since HCT
Overall	7-15% at 15 y	
	Japanese: 4.2% at 10 years	

## Cancer screening

- **Skin:** clinical skin exam
- **Oral:** clinical oral exam by dentist
- **Thyroid:** clinical thyroid exam
- **Breast:** clinical breast exam and mammogram
- **Cervical:** PAP smear annually
- **Colorectal:** colonoscopy age 50, stool guaiac x 3
- **Prostate:** prostate exam & prostate specific antigen

## Future directions

- **Less descriptive research**
- **Better prevention and treatment**
  - Recurrent disease
  - Chronic GVHD
  - Organ failure
- **Better systems to ensure that current best practices are followed consistently**

## Acknowledgments

### Fred Hutch, Seattle

- Mary Flowers
- Paul Martin
- Paul Carpenter
- LTFU staff

### Dana-Farber, Boston

- Joe Antin
- Rob Soiffer
- Ted Alyea
- Corey Cutler
- Vincent Ho

Funding by the National Cancer Institute

## VIII. 研究成果の刊行に関する一覧表

研究成果の刊行に関する一覧表

発表者氏名	論文タイトル名	発表誌名	巻名	ページ	出版年
Takakazu kawase, Yoshiki Akatsuka, Hiroki Torika, Satoko Morishima, Akira Oka, Akane Tsujimura, Mikinori Miyazaki, Kunio Tsujimura, Koichi Miyamura, Seishi Ogawa, Hidetoshi Inoko, Yasuo Morishima, Yoshihisa Kodera, Kiyotaka Kuzushima, and Toshitada Takahashi.	Alternative splicing due to an intronic SNP in <i>HMSD</i> generates a novel minor histocompatibility antigen.	Bood	110	1055-1063	2007
Takakazu kawase, Yasuo Morishima, Keitaro Matsuo, Koichi Kashiwase, Hidetoshi Inoko, Hiroh Saji, Shunichi Kato, Takeo Juji, Yoshihisa Kodera, and Takehiko Sasazuki, for The Japan Marrow Donor Program.	High-risk HLA allele mismatch combinations responsible for severe acute graft-versus-host disease and implication for its molecular mechanism.	Bood	110	2235-2241	2007
Yoshiko Atsuta, Ritsuro Suzuki, Ayami Yoshimi, Hisashi Gondo, Junji Tanaka, Akira Hiraoka, Koji Kato, Ken Tabuchi, Masahiro Tsuchida, Yasuo Morishima, Makoto Mitamura, Keisei kawa, Shunichi Kato, Tokiko Nagamura, Minoko Takanashi, Yoshihisa Kodera.	Unification of Hematopoietic Stem Cell Transplantation Registries in Japan and Establishment of the TRUMP System.	International Journal of Hematology	86	269-274	2007
Yasuo Morishima, Toshio Yabe, Keitaro Matsuo, Koishi Kashiwase, Hidetoshi Inoko, Hiroh Saji, Ken Yamamoto, Etsuko Maruya, Yoshiaki Akatsuka, Makoto Onizuka, Hisashi Sakamaki, Hiroshi Sao, Seishi Ogawa, Shunichi Kato, Takeo Juji, Takehiko Sasazuki, Yoshihisa Kodera, for the Japan Marrow Donor Program.	Effects of HLA allele and killer immunoglobulin-like receptor ligand matching on clinical outcome in leukemia patients undergoing transplantation with T-cell-replete marrow from an unrelated donor.	Biology of Blood and Marrow Transplantation	13	315-328	2007

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Takakazu kawase, Yasuhito Nannya, Hiroki Torikai, Go Yamamoto, Makoto Onizuka, Satoko Morishima, Kunio Tsujimura, Koichi Miyamura, Yoshihisa Koderu, Yasuo Morishima, Toshitada Takahasi, Kiyotaka Kuzushima, Seishi Ogawa, and Yoshiaki Akatsuka.	Identification of human minor histocompatibility antigens based on genetic association with highly parallel genotyping of pooled DNA.	Bood	111 (6)	3286-3294	2008
Toshio Yabe, Keitaro Matsuo, Kouyuki Hirayasu, Koichi Kashiwase, Sumiyo Kawamura-Ishii, Hidenori Tanaka, Atsuko Ogawa, Minoko Takahashi, Masahiro Satake, Kazunori Nakajima, Katsushi Tokunaga, Hidetoshi Inoko, Hiroo Saji, Seishi Ogawa, Takeo Fuji, Takehiko Sasazuki, Yoshihisa Koderu, and Yasuo Morishima for the Japan Marrow Donor Program.	Donor Killer Immunoglobulin-Like Receptor (KIR) Genotype-Patient Cognate KIR Ligand Combination and Antithymocyte Globulin Preadministration Are Critical Factors in Outcome of HLA-C-KIR Ligand-Mismatched T Cell-Replete Unrelated Bone Marrow Transplantation.	Biology of Blood and Marrow Transplantation	14	75-87	2008
Hiroto Narimatsu, Makoto Murata, Seitaro Terakura, Kyoko Sugimoto, Tomoki Naoe	Potential Role of a Mismatched HLA Specific CTL Clone Developed Pre-Transplant in Graft Rejection following Cord Blood Transplantation	American Society for Blood and Marrow Transplantation		1-6	2008

## IX. 資 料



**Asia-Pacific Blood and Marrow  
Transplantation Group  
(APBMT)**

**Annual Report 2008**

**Secretariat Office / Data Center of APBMT**

**Ayami Yoshimi  
Yoshiko Atsuta  
Minako Iida  
Ritsuro Suzuki  
Yoshihisa Kodera**

## Transplant Activity Survey 2007

### Methods

The Asia Pacific Blood and Marrow Transplantation Group (APBMT) conducted the Transplant Activity Survey to overview recent situations and trends of HSCTs in Asian countries. Using simple survey forms (see page 21-23), the number of all transplants performed until 2006 in Asian countries, according to indications, donor types, and stem cell sources, were collected. Nine out of 12 countries/regions, participating in the APBMT have submitted their transplant activity data by April 5, 2008. The following figure shows how the data was collected.

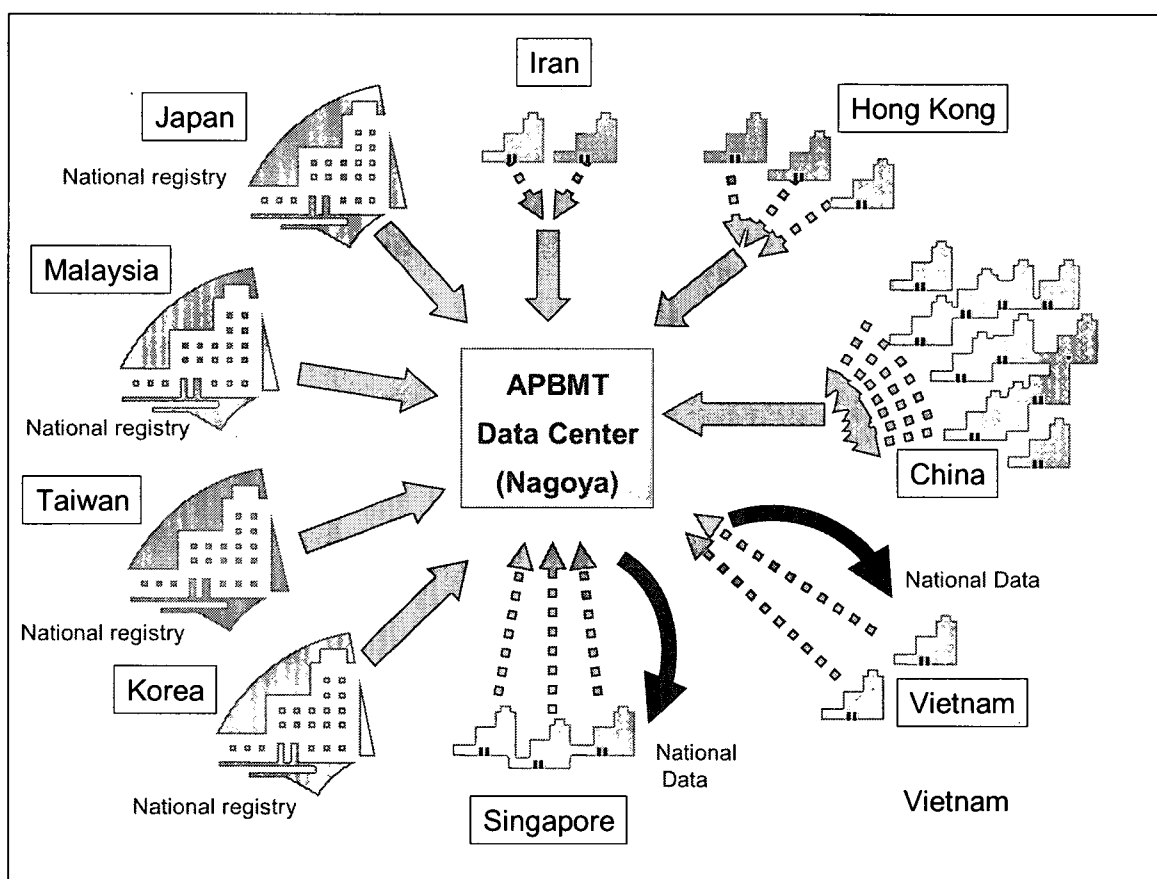


Figure: Data collection

From Japan, Korea, Malaysia and Taiwan the data was submitted through their national registry. In China, Hong Kong, and Iran, data was collected by Dr. Dao Pei Lu, Dr. Albert Lie and Dr. Ardeshir Ghavamzadeh, respectively. In Vietnam and Singapore, the APBMT data center had direct contacts with major transplant centers and received the

data. The collected data of these 2 countries will be sent back to each country as their national data. However, APBMT strongly encourages an establishment of a national registry in each Asian country.

### ***Results***

The results in detail are summarized later in page 6 to 20. Data of 58113 HSCTs from 461 centers were submitted. The absolute number of transplants has been steadily increasing in most Asian countries/regions and doubled in these 10 years. The data from 2006 showed that 6418 transplants were performed in this year.

The number of HSCTs for most hematological malignancies has been increasing. The number of HSCTs for solid tumors has been currently decreasing or stable. Hemoglobinopathy was one of the most common indications among non-malignant diseases in Asian countries except for China, Japan, and Korea.

Of HSCTs performed in 2006, 38% were allogeneic and 62% were autologous. The number of allogeneic HSCTs has been steadily increasing; meanwhile the number of autologous HSCTs has been recently stable. The distribution of related and unrelated donors (UD) differed widely among the countries. UD-HSCT steadily increases in China, Japan, Hong Kong, Korea, and Singapore, but not in other countries. Cord blood is widely used as a stem cell source in Asian countries, accounting for 38% of UD-HSCTs (data of 2006). Unrelated donor peripheral blood stem cell transplantation (UD-PBSCT) is not common in many Asian countries. In contrast, it is the most common stem cell source in China for UD-HSCT. In the setting of HSCT from a related donor, PBSCT is recently performed more frequently than bone marrow transplantation (BMT). 95% of stem cell source for auto-HSCT is peripheral blood.

### ***Summary***

This simple survey provided us interesting information about the current situations and trends of HSCT in Asian countries. It is notable that the proportion of related and unrelated donors differed widely among countries/regions. The proportion of each stem cell source of HSCT from unrelated donors was also quite different in each country/region. Cord blood appeared to be an important stem cell source in most of the Asian countries.



### ***Future plan***

At the business meeting during the 12<sup>th</sup> Congress of APBMT in Beijing, the group agreed to continue the annual transplant activity survey in the future. This kind of transplant activity survey has been performed in the European Group for Blood and Marrow Transplantation (EBMT) since 1990.

Furthermore, a global transplant activity survey has been planned by the “Worldwide group for blood and marrow transplantation (WBMT)” and APBMT decided to contribute to it. It will be helpful to illustrate the different situations of HSCT in different regions of the world.

## Contributors of Transplant Activity Survey 2007

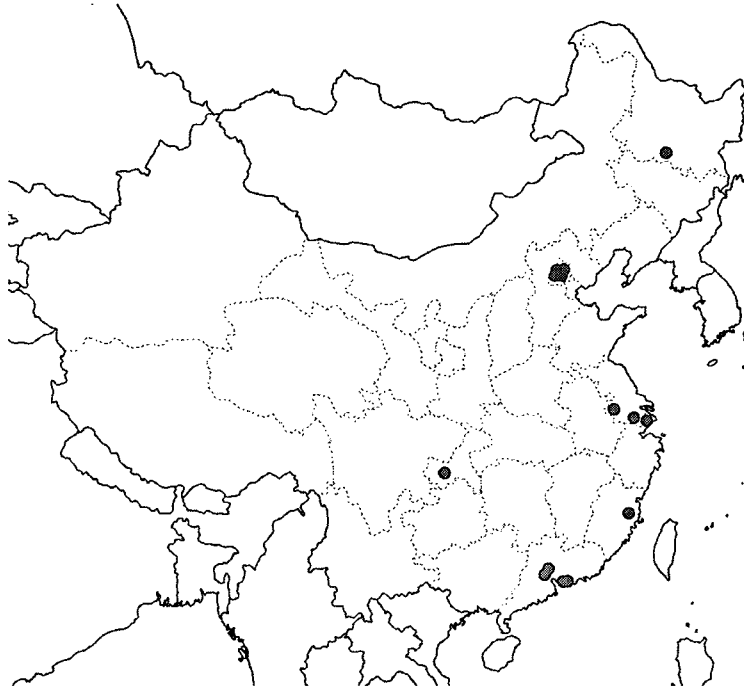
The following centers/ physicians contributed to the Transplant Activity Survey 2007.

### *Mainland China (12 centers)*

Coordinator: Dr. Dao Pei Lu

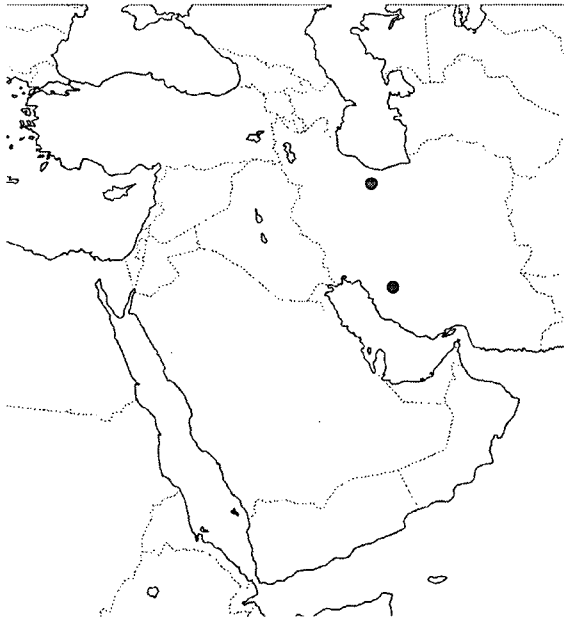
### *Hong Kong (3 departments/centers)*

Coordinator: Dr. Albert Lie



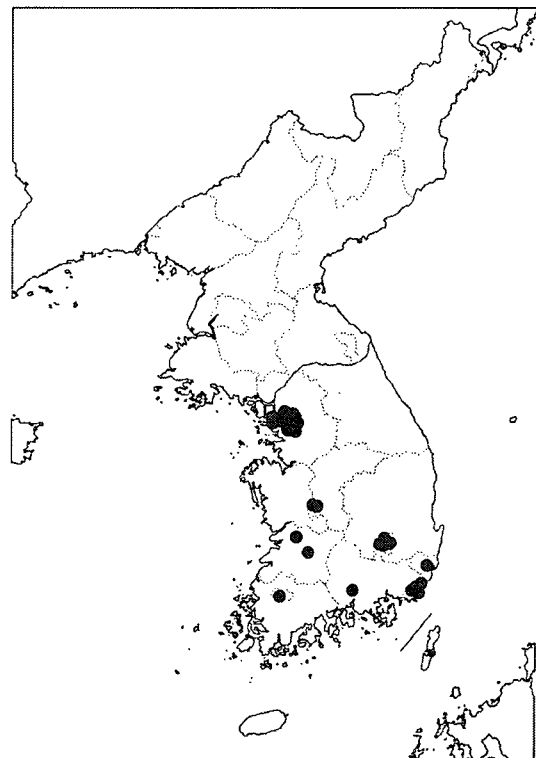
### *Iran (2 centers)*

Coordinator: Dr. Ardeshir Ghavamzadeh



### *Korea (40 centers)*

Coordinator: Dr. Chang- Ki Min



***Japan (National Registry) 355 centers***

Coordinators: Dr. Ayami Yoshimi, Dr. Yoshiko Atsuta, Dr. Ritsuro Suzuki, Dr. Yoshihisa Kodaera

Supported by the Japan Society for Hematopoietic Cell Transplantation, the Japan Society of Pediatric Hematology, Japan Marrow Donor Program, Japan Cord Blood Bank Network

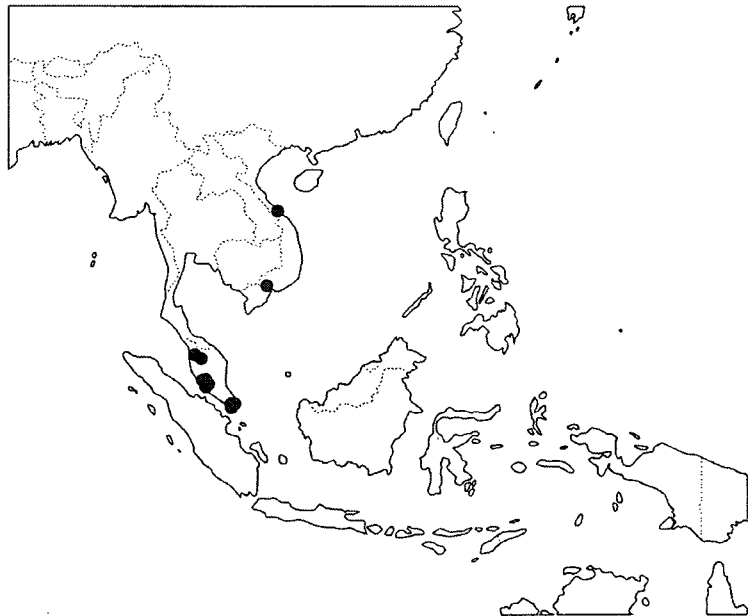


***Malaysia (National Registry)***

Coordinator: Dr. Chan Lee Lee

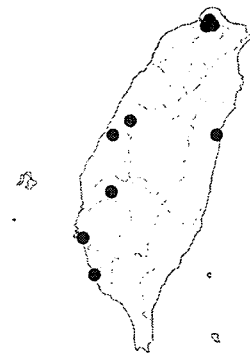
***Singapore (3 departments/centers)***

***Vietnam (2 centers)***



***Taiwan (National Registry)***

Coordinator: Dr. Tzeon-Jye Chiou

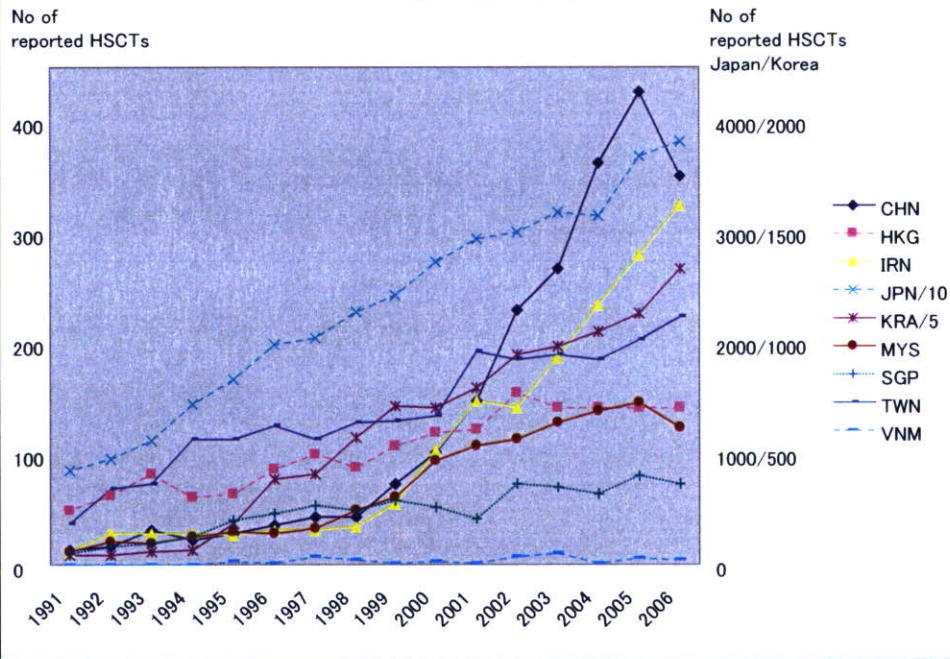


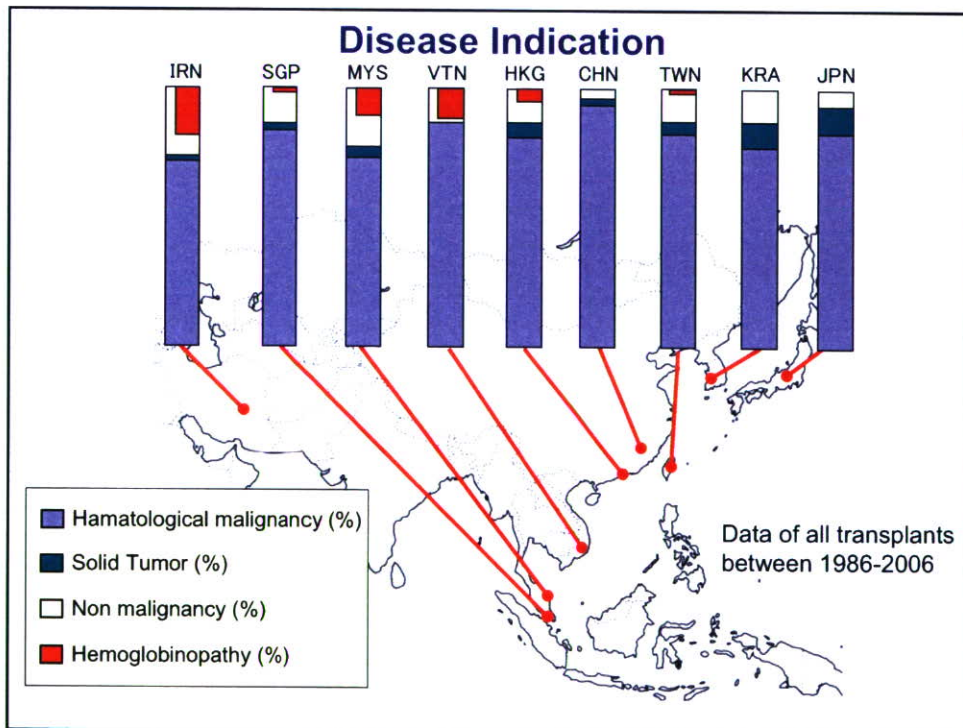
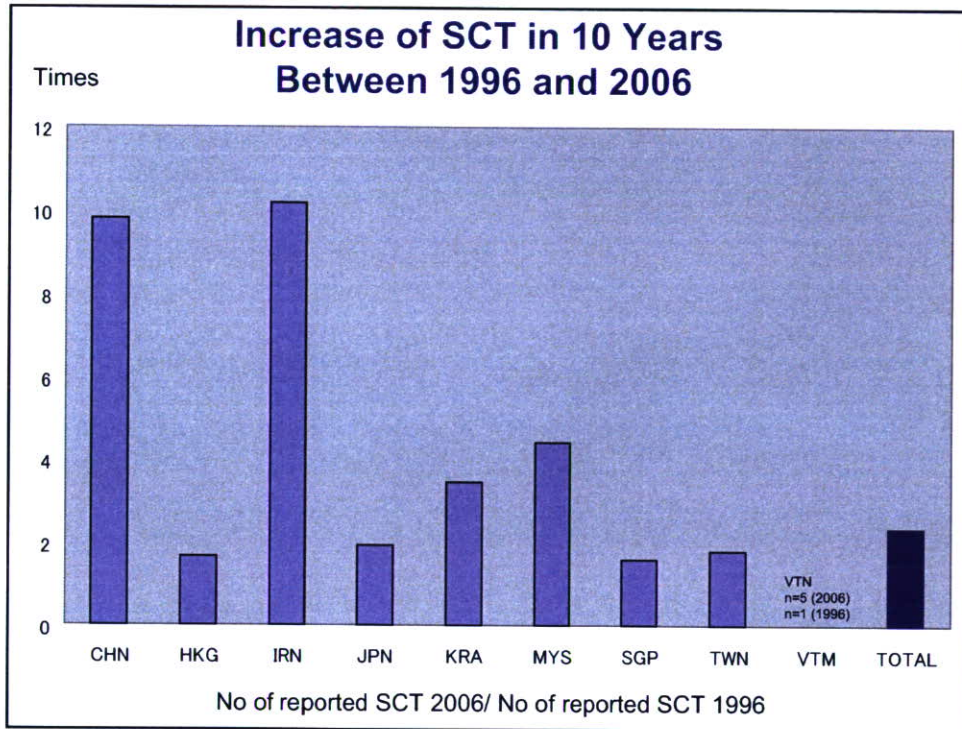
### Summary of Collected Data

	No of reported SCT All until 2006	No of reporting centers	No of reported SCT in 2006
CHN	2220	12	352
HKG	1684	3	142
IRN	1699	2	325
JPN	38523	355	3834
KRA	9570	37	1338
MYS	1174	9	124
SGP	839	3	73
TWN	2351	9	225
VNM	53	2	5
<b>Total</b>	<b>58113</b>	<b>429</b>	<b>6418</b>

CHN: China, HKG: Hong Kong, IRN: Iran, JPN: Japan, KRA: Korea, MYS: Malaysia, SGP: Singapore, VTN: Vietnam, SCT: Stem Cell Transplantation

### All HSCTs





## World Wide Cooperation and Meetings

APBMT has increased its activity of collaboration with other international registries including European Group for Blood and Marrow Transplantation (EBMT) and Center for International Blood and Marrow Transplant Research (CIBMTR) for the collection of common transplant data sets in the past year.

The world wide network “Worldwide group for blood and marrow transplantation (WBMT)” was launched and the first meeting was organized by EBMT, CIBMTR, the World Marrow Donor Association (WMDA), and APBMT at Lyon in March, 2007. Website for WBMT: [www.wbmt.org](http://www.wbmt.org))

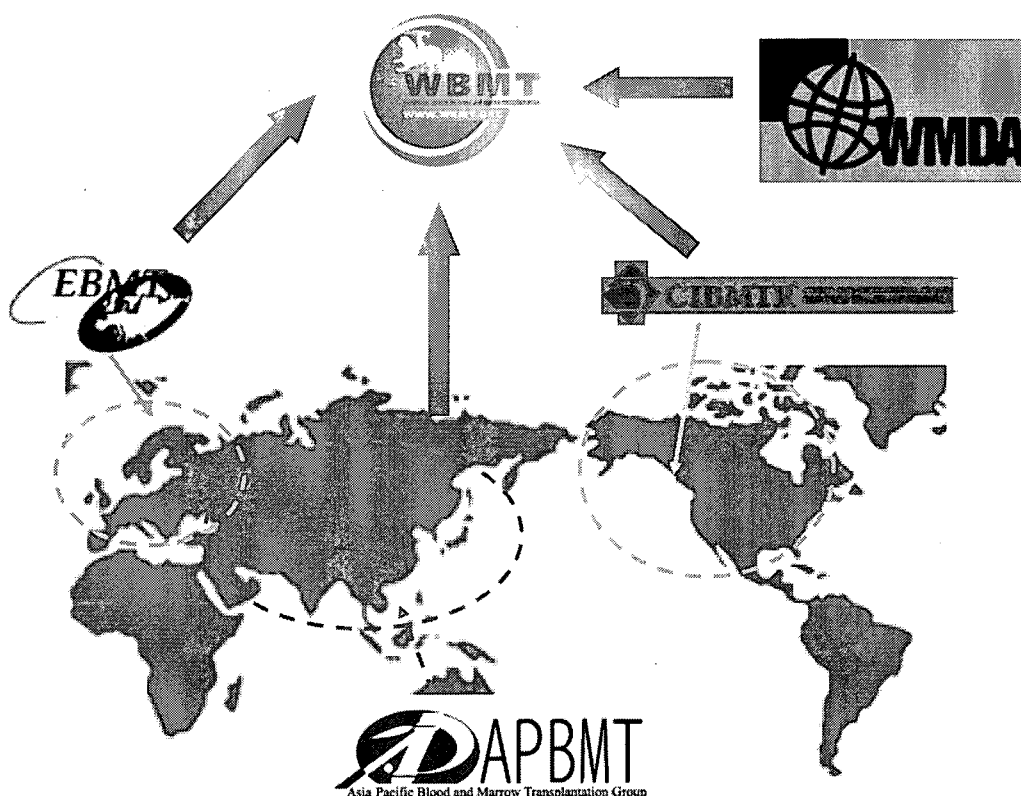


Figure: Global collaboration with other registries

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輸血部 造血細胞移植センター

〒453-8511 名古屋市中村区道下町3丁目35番地

TEL:052-481-5111 FAX:052-483-3647

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