

Workshop of the WBMT in cooperation with the WHO
Developing an Outcomes Database

Nov. 11, 2011
Hanoi, Vietnam

**What is the minimum dataset
suggested by APBMT
for programs with limited resources?**



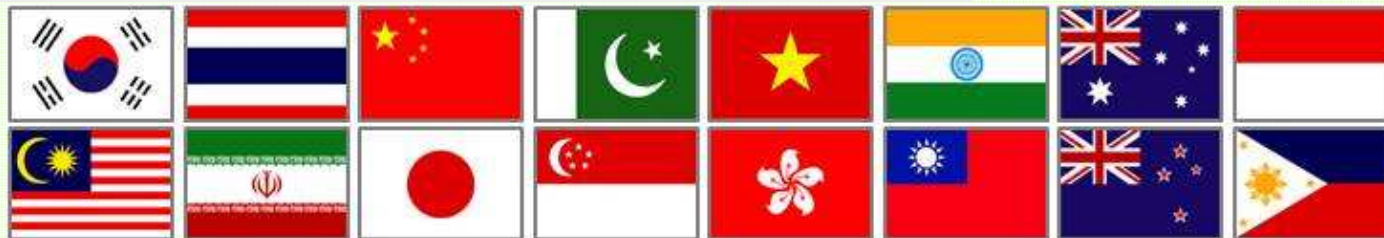
Yoshiko Atsuta
for the APBMT

APBMT

Asia-Pacific Blood and Marrow Transplantation Group



Australia
Mainland China
Hong Kong
India
Indonesia
Iran
Japan
Korea
Malaysia
New Zealand
Pakistan
Phillipines
Taiwan
Thailand
Singapore
Vietnam



APBMT Meetings

No	Year	City	President
1 st	1998		
2 nd	1999		
3 rd	1999		
4 th	1999		
5 th	1999		
6 th	1998		
7 th	2000		Issaragagrisil, Surapol
8 th	2002		Advani, Suresh
9 th	2004	Shanghai	Ghavamzadeh, Ardeshir
10 th	2005	Hangzhou	Lu, Dao-Pei
11 th	2006	Nagoya	Kodera, Yoshihisa
12 th	2007	Beijing	Lu, Dao-Pei
13 th	2008	Taipei	Chen, Po-Min
14 th	2009	Seoul	Kim, Chun-choo
15 th	2010	Phuket	Jooter, Saengsuree
16 th	2011	Sydney	Ma, David and Rowlings, Philip

•Agreed to launch APBMT registry
 •To know the activity of transplant in this area.
 •To create original data from Asia-Pacific region

Transplant Activity Survey started in 2007

Two sheets per country or per center

TRANSPLANT ACTIVITY SURVAY until 2005



TRANSPLANT ACTIVITY SURVAY from to 2005

PAGE1

Country Name

number of all transplanted patients for each indication and for each type of transplant

Indication	Transplant Year	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986
AML														
ALL														
CML														
MDS														
Other leukemia														
MPS														
Lymphoid malignancy (including LBL)														
Multiple Myeloma														
Solid tumor														
Aplatic anemia														
Aquired Pure red cell anemia														
PNH														
Congenital bone marrow failure														
Hemoglobinopathy														
Other hematological disease														
EBV related disorders														
Hemophagocytic syndrome														
Langerhans cell histiocytosis														
Autoimmune disease														
Inherited metabolic disease														
Primary immune deficiencies														
Others														
Total														

Diagnosis

Donor type

Stem cell source type

		Transplant Year	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	
Allogeneic	Donor	Source																	
		BM																	
		PBSC																	
	Family	HLA id sibling																	
		CB																	
		Others																	
	Twin	BM																	
		PBSC																	
		Others																	
	Unrelated	BM																	
PBSC																			
CB																			
Autologous	Others																		
	BM																		
	PBSC																		
		Others																	

Classify the disease as following

AML Define

MDS Define

Other leukemia eg. AT

MPS eg. Pol

Congenital bone marrow failure eg. Fan

Hemoglobinopathy eg. bet

EBV related disorders eg. CA

Inherited metabolic disease eg. Mu

Primary immune deficiencies eg. SC

*any family member (matched or mismatched) other than

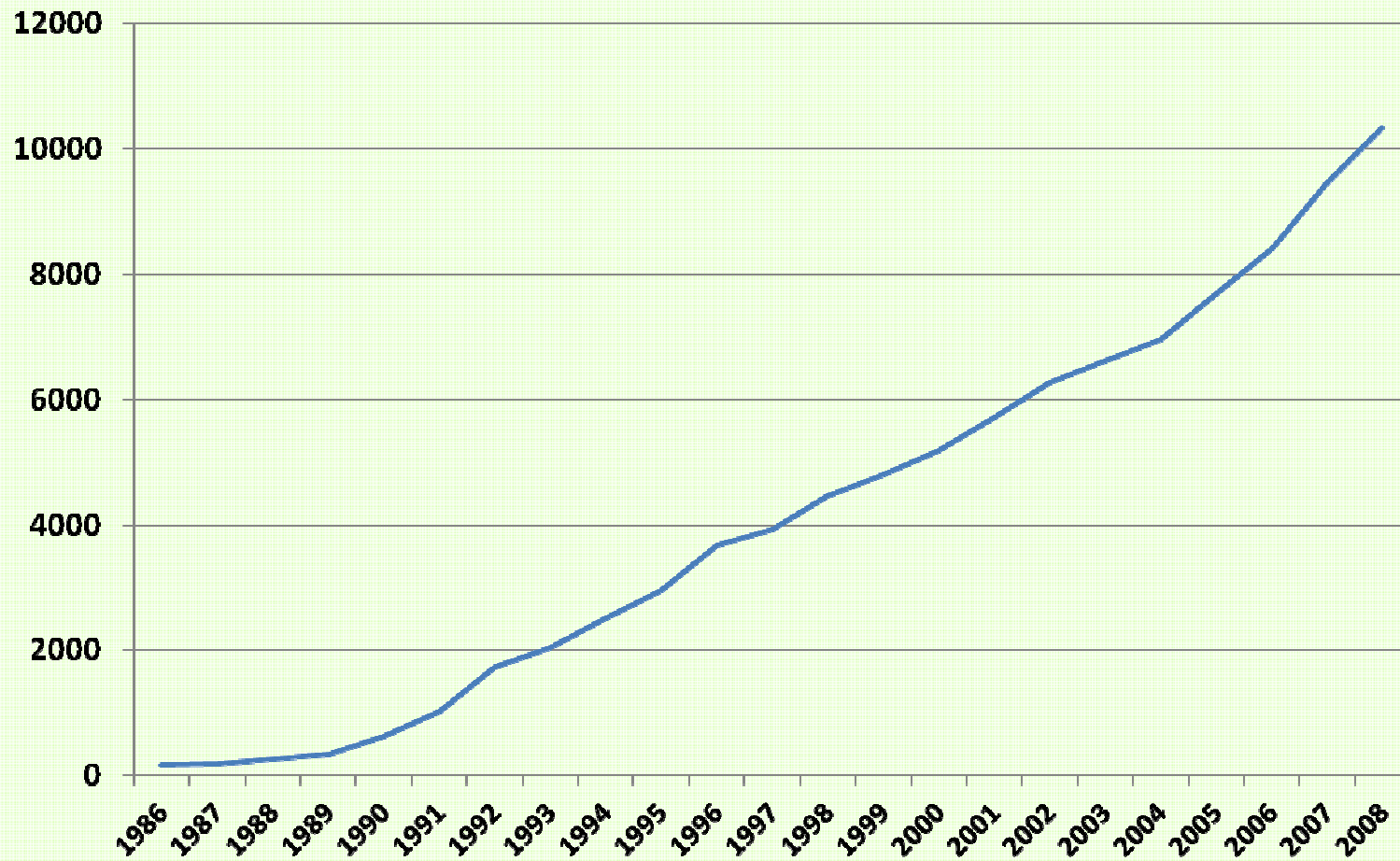
Please send it back to the secretary's office of APBMT by FAX or EMAIL: Fax +81-52-719-1973 E-mail: office@apbmt.org

No. of Transplantations and Centers

	H SCTs from 1986 to 2008	Centers in 2008	H SCTs in 2008
Australia	16205	41	1209
China	5211	38	1604
Hong Kong	1986	2	133
India	970	19	409
Iran	2446	5	389
Japan	47436	370	4204
Korea	12388	42	1459
Malaysia	1490	10	181
New Zealand	1674	6	171
Pakistan	219	2	29
Philippines	27	1	3
Singapore	1108	3	115
Taiwan	2953	12	337
Thailand	1223	5	131
Vietnam	81	3	19
Total	95417	559	10393





Total No. of HSCTs

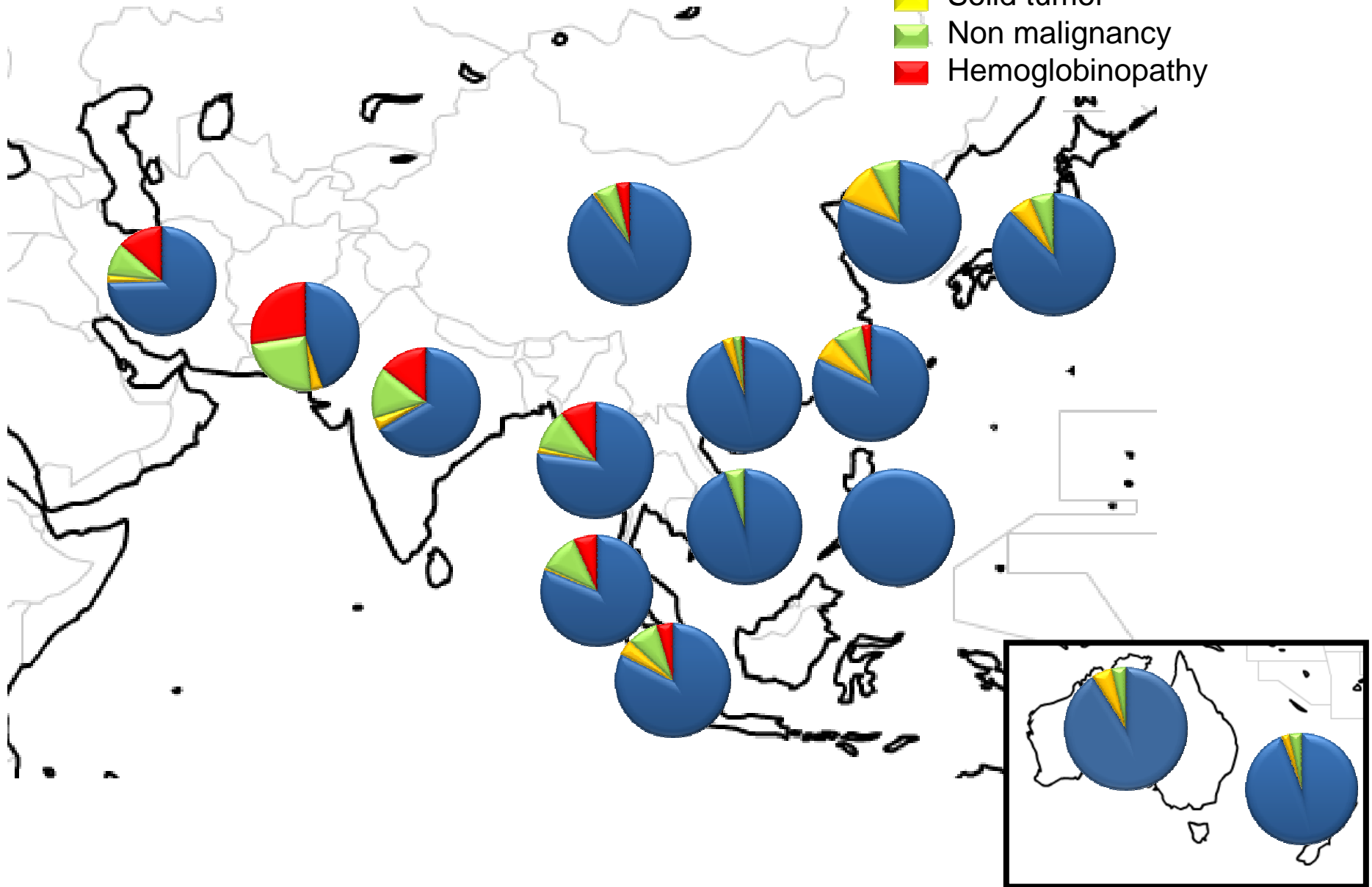
No. of HSCTs



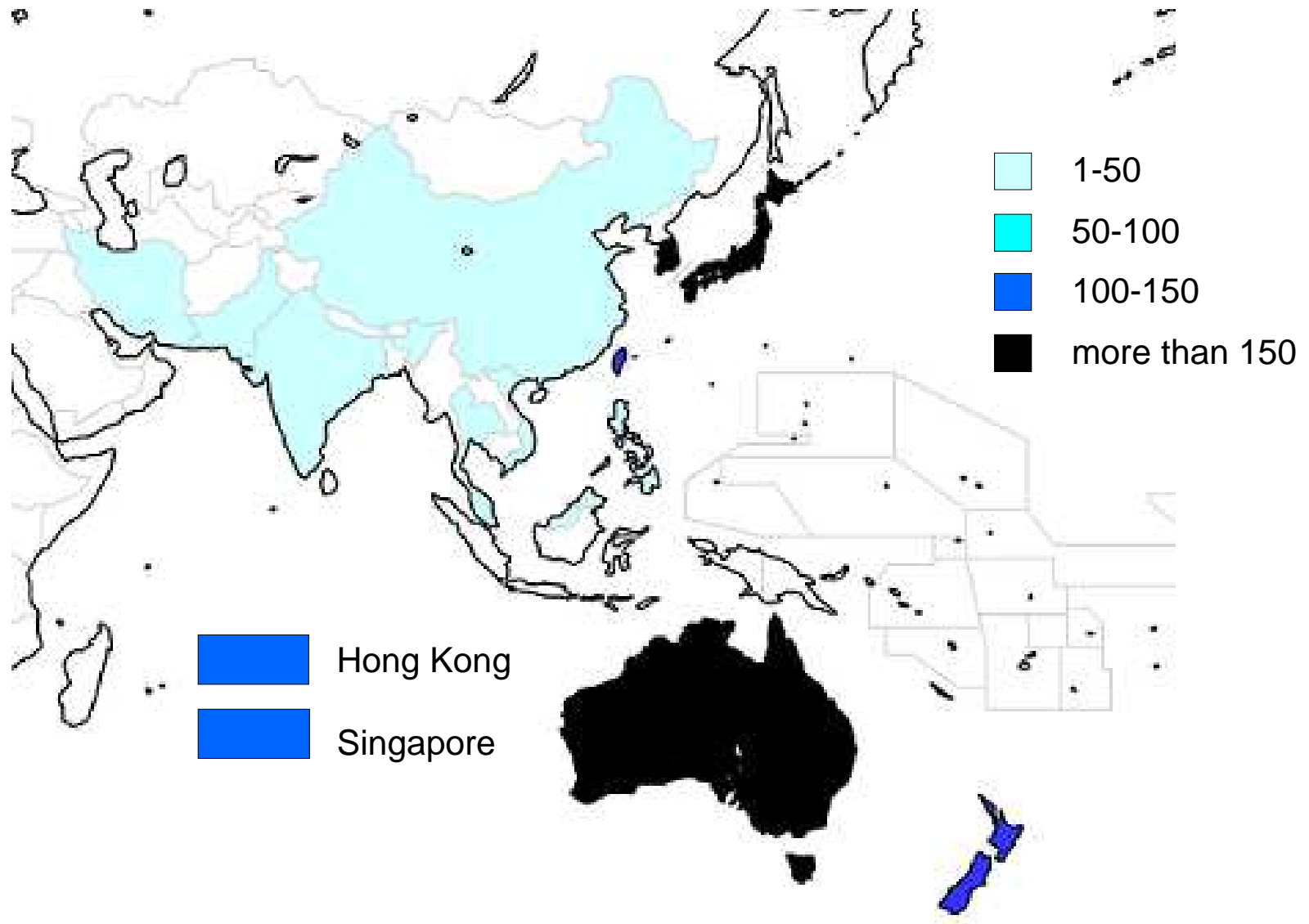
Iida M et al. APBMT 2010

Major Division of Disease Types by Country in 2008

-  Hematological malignancy
-  Solid tumor
-  Non malignancy
-  Hemoglobinopathy



No. of Allogeneic Transplants per 10 million population



APBMT HSCT Registry

- APBMT Transplant Activity Survey
- APBMT Outcome Registry
 - Long discussion
 - Launched in July, 2010

What is an Outcomes Database

- **Database** consisted with baseline-, disease-, transplant-information, and transplant outcome information of **each single patient**
- **Possible analyses:**
- Transplant outcome summary including engraftment rate, incidence of complications, and survival probabilities
 - According to diagnosis, disease stage at transplant, donor-type, stem cell source type, recipient age, conditioning regimen...
- Risk factors affecting transplant outcome

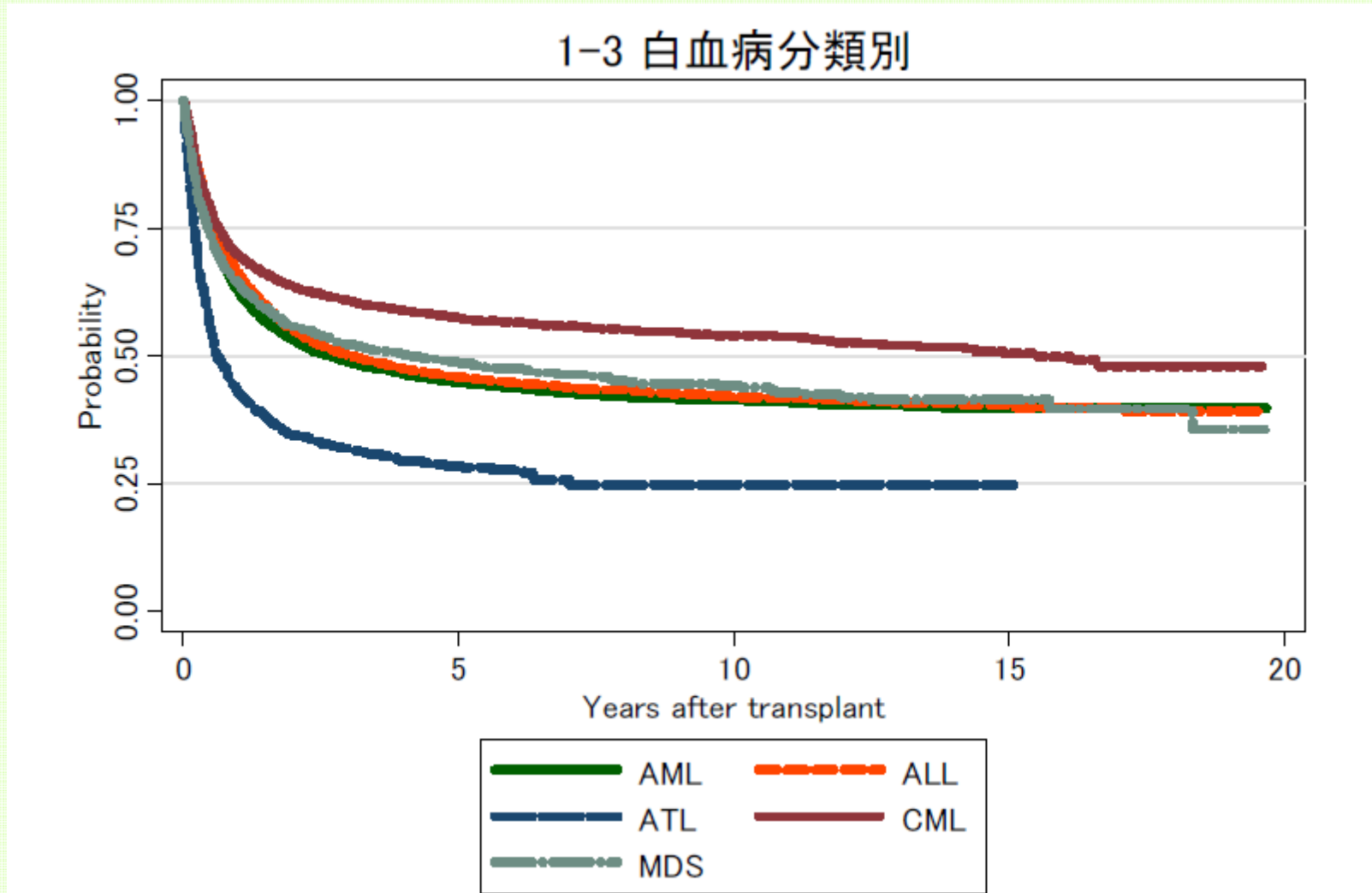
Outcome database

What was done to whom, **how the patient did after**

- 30 y/o male
- Acute myeloid leukemia in second remission
- Bone marrow from HLA identical sibling

- Neutrophil recovery on day 16
- Grade 2 acute GVHD (skin stage 3)
- No chronic GVHD
- No relapse
- Alive, without disease on day 500

Overall survival curve of leukemia



Japan Society for Hematopoietic Cell Transplantation
JSHCT Annual Report of Nationwide Survey 2011

Registry study

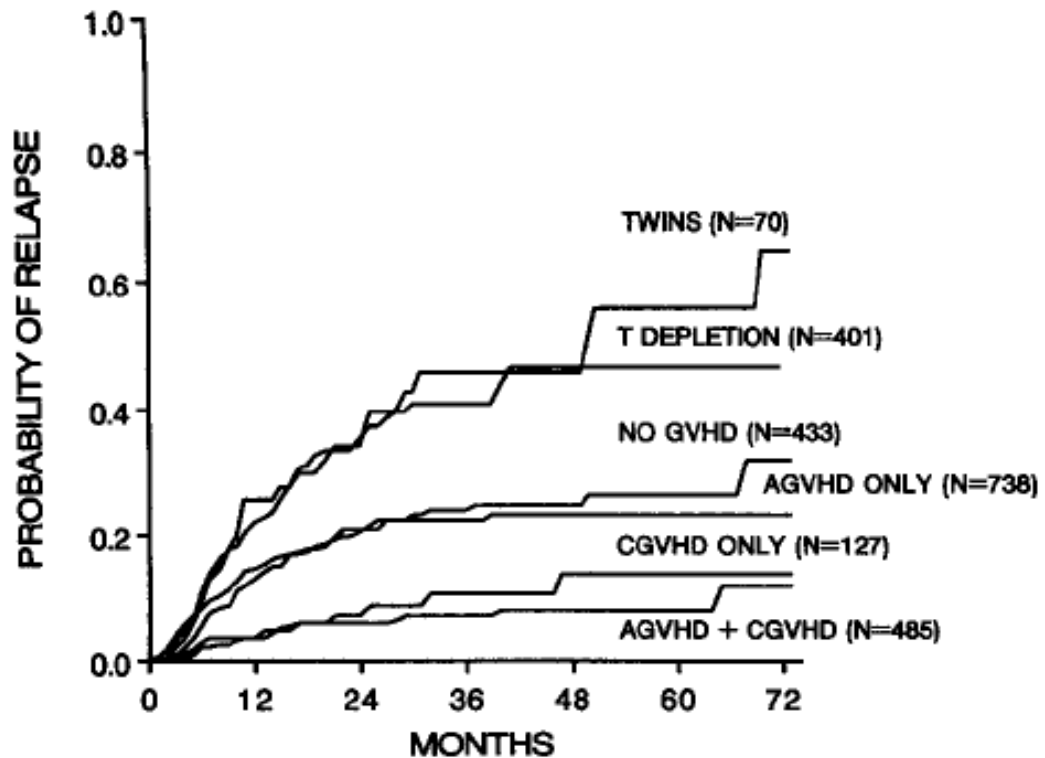
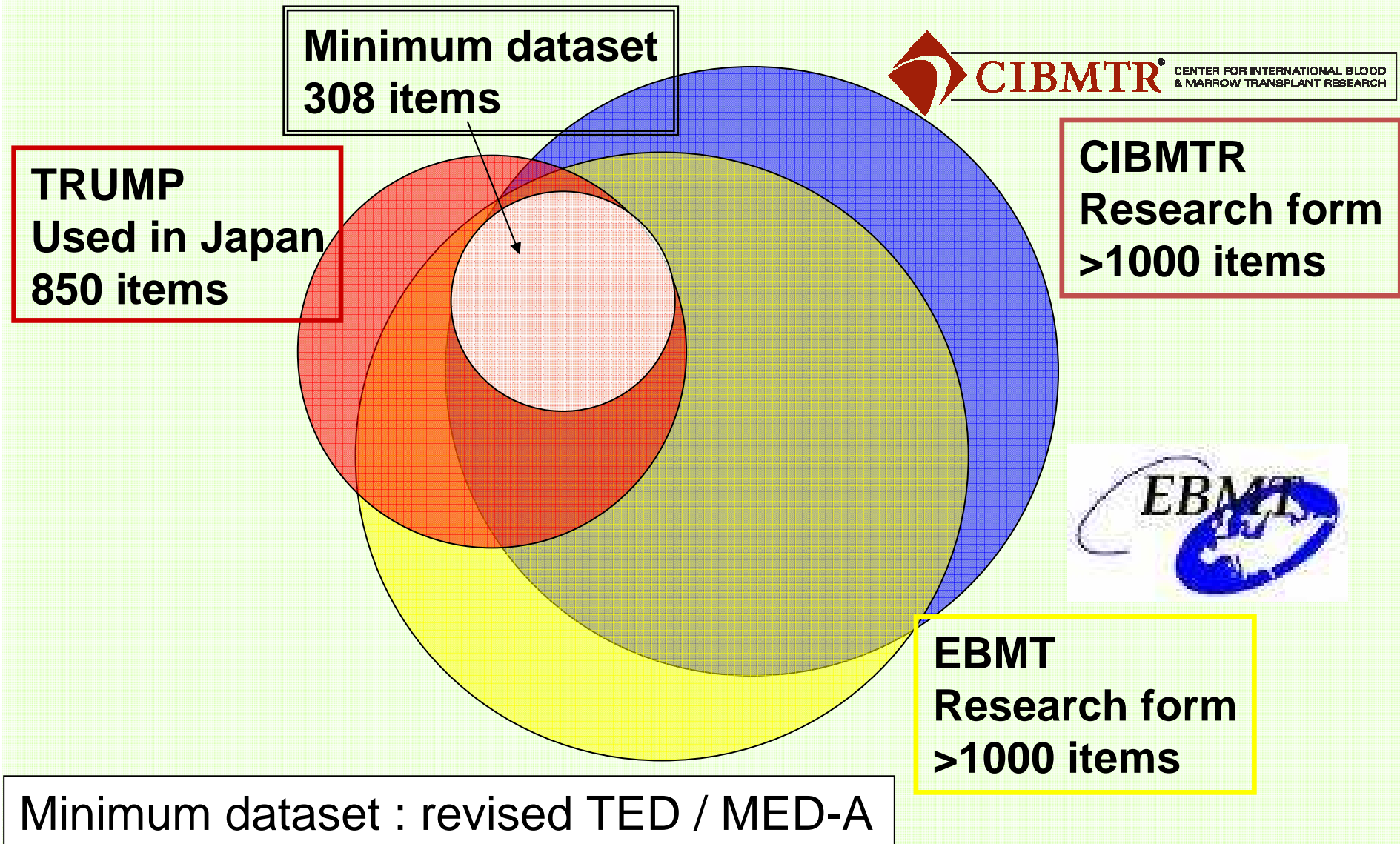


Fig 1. Actuarial probability of relapse after bone marrow transplantation for early leukemia according to type of graft and development of GVHD.

Graft-versus-leukemia effect

Survey items to collect



APBMT Report sheets, identical to TED / MED-A

2 pages for 100 day, 2 pages for f/u, 1 for disease

One set required for EACH TRANSPLANT CASE

APBMT Center#: _____ Unique Patient Number (UPN): _____ HSCT Date: _____
 yyyy mm dd

APBMT Registry
 Day 100 report sheet 1

PRIMARY DISEASE DIAGNOSIS

CENTRE IDENTIFICATION
 APBMT Center #: _____
 CIBMTR Center #: _____
 EBMT Code (CIC): _____
 Hospital: _____ Unit: _____
 Contact person: _____
 Phone: _____
 Fax: _____
 e-mail: _____

REPORT INFORMATION
 Date of this Report: _____
 yyyy mm dd
 CIBMTR patient (recipient) identification #: _____
 EBMT patient (recipient) #: _____
 Patient following national / international study / trial:
 Yes No Unknown
 Name of study / trial: _____

PATIENT IDENTIFICATION
 Unique Patient Number or Code: _____
 Compulsory, registrations will not be accepted without this item
 Initials: _____ (first name(s), family name (s))
 Date of Birth: _____
 yyyy mm dd
 Sex: Male Female

DISEASE
 Date of initial diagnosis: _____
 yyyy mm dd
 Complete and attach the relevant Disease classification sheet with disease status at HSCT

HSCT
 Performance score System Karnofsky
 Score: 10 20 30 40 50 60 70 80 90 100
 Lansky
 Type of HSCT:
 Autologous (SKIP ITEMS BELOW AND CONTINUE FROM TOP OF NEXT COLUMN)
 Allogeneic
 Patient CMV status Negative Positive (for allografts) Not evaluated unknown
 Multiple donors No Yes: Number _____
 (including multiple CB units)
 If yes, replicate and fill the Donor box below as many times as necessary

DONOR
 Donor ID: _____
 HLA match type
 Syngeneic (monozygotic twin)
 HLA-identical sibling (may include non-monozygotic twin)
 HLA-matched other relative
 HLA-mismatched relative:
 Degree of allele mismatch 1 HLA antigen mismatch
 >2 HLA antigen mismatch
 Unrelated donor

HSCT (cont.)
 Source of Stem Cells (check all that apply):
 Bone Marrow Peripheral Blood
 Cord Blood Other: _____
 Date of this HSCT: _____
 yyyy mm dd
 Chronological no. of HSCT for this patient: _____
 Date of most recent previous HSCT: _____
 yyyy mm dd
 Type of most recent previous HSCT Allo Auto N/A

HSCT part of a planned multiple graft protocol?
 No Yes
 Graft manipulation ex-vivo (including T-cell depletion) (other than for RBC removal or volume reduction)
 No Yes
 Preparative (conditioning) regimen given?
 No (Usually Pediatric Inherited Disorders only) CONTINUE TO P. 2
 Yes
 Was this intended to be myeloablative? (all only)
 Yes No: Reason:
 Age of recipient
 Comorbid conditions
 Prior HSCT
 Protocol driven
 Other, specify _____

Preparative regimen
 (Check all that apply)

	RAD unit	Total Prescribed Dose
	cGy	Gy mg/m ² mg/kg
<input type="checkbox"/> TBI	_____	_____
<input type="checkbox"/> TL1, TN1, TA1	_____	_____
<input type="checkbox"/> ALG, ALS, ATG, ATS (before d0)	_____	_____
<input type="checkbox"/> Horse <input type="checkbox"/> Rabbit <input type="checkbox"/> Other, specify _____	_____	_____
<input type="checkbox"/> anthracycline	_____	_____
<input type="checkbox"/> daunorubicin	_____	_____
<input type="checkbox"/> doxorubicin	_____	_____
<input type="checkbox"/> idarubicin	_____	_____
<input type="checkbox"/> bleomycin	_____	_____
<input type="checkbox"/> busulfan	_____	_____
<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Both	_____	_____
<input type="checkbox"/> carboplatin	_____	_____
<input type="checkbox"/> camustine (BCNU)	_____	_____
<input type="checkbox"/> cisplatin	_____	_____
<input type="checkbox"/> corticosteroids	_____	_____
<input type="checkbox"/> cyclophosphamide	_____	_____
<input type="checkbox"/> cytarabine (Ara-C)	_____	_____
<input type="checkbox"/> etoposide (VP16)	_____	_____
<input type="checkbox"/> fludarabine	_____	_____
<input type="checkbox"/> ifosfamide	_____	_____
<input type="checkbox"/> imatinib mesylate (Gleevec, Glivec)	_____	_____
<input type="checkbox"/> lomustine (CCNU)	_____	_____
<input type="checkbox"/> melphalan (L-PAM)	_____	_____
<input type="checkbox"/> mitoxantrone	_____	_____
<input type="checkbox"/> monoclonal antibody (MAb)	_____	_____

APBMT Center#: _____ Unique Patient Number (UPN): _____ HSCT Date: _____
 yyyy mm dd

APBMT Registry
 Follow up sheet 1: 1st year post transplant and yearly follow-up

PRIMARY DISEASE DIAGNOSIS

CENTRE IDENTIFICATION
 APBMT Center #: _____
 CIBMTR/ABMTR Code: _____
 EBMT Code (CIC): _____
 Hospital: _____ Unit: _____
 Contact person: _____
 e-mail: _____

REPORT INFORMATION
 Date of this Report: _____
 yyyy mm dd
 Patient following national / international study / trial:
 Yes No Unknown
 Name of study / trial: _____

PATIENT AND TRANSPLANT IDENTIFICATION
 Unique Patient Number or Code: _____
 (Compulsory, registrations will not be accepted without this item)
 Initials: _____ (first name(s), surname(s))
 Date of Birth: _____
 yyyy mm dd
 Sex: Male Female
 Date of the most recent transplant before this follow up:
 yyyy mm dd

DISEASE STATUS
 Best disease status (response) after transplant (prior to treatment modification in response to a post transplant disease assessment)
 Continued complete remission (CR)
 CR achieved: Date achieved: _____
 yyyy mm dd
 Never in CR: Date assessed: _____
 yyyy mm dd
 Previously reported

DATE OF LAST CONTACT
 Date of last follow up or death: _____
 yyyy mm dd

COMPLICATIONS OF TRANSPLANT
 Late graft failure No Yes
 Chronic Graft Versus Host Disease present during this period (allografts only)
 No (never)
 Yes: First episode since last HSCT:
 Date of diagnosis of cGVHD: _____
 yyyy mm dd
 Recurrence
 Date first evidence of cGVHD during this period: _____
 yyyy mm dd
 Continuous since last reported episode
 Maximum extent during this period
 Limited Extensive Unknown
 Resolved since last report (currently absent)
 Did a secondary malignancy, lymphoproliferative or myelodysplastic disorder occur?

FIRST RELAPSE OR PROGRESSION
 First Relapse or Progression after HSCT (Any type)
 No Yes Continuous progression since HSCT
 If yes or continuous progression and for acute and chronic LEUKAEMIAS only, tick all methods used for assessment with the dates on which they were used and the results.
 Relapse/progression detected by clinical/haematological method:
 No: Date assessed _____
 yyyy mm dd
 Yes: Date first seen _____
 yyyy mm dd
 Previously reported _____
 yyyy mm dd
 Not evaluated
 Relapse/progression detected by cytogenetic method:
 No: Date assessed _____
 yyyy mm dd
 Yes: Date first seen _____
 yyyy mm dd
 Previously reported _____
 yyyy mm dd
 Not evaluated
 Relapse/progression detected by molecular method:
 No: Date assessed _____
 yyyy mm dd
 Yes: Date first seen _____
 yyyy mm dd
 Previously reported _____
 yyyy mm dd
 Not evaluated

DISEASE PRESENCE/DETECTION AT LAST CONTACT
 Last disease status (record the most recent status and date for each method, depending on the disease)
 Was disease detected by clinical/haematological method?:
 No Yes
 Last date assessed _____
 yyyy mm dd
 Not evaluated
 yyyy mm dd
 Fill in only for acute and chronic LEUKAEMIAS
 Was disease detected by cytogenetic/FISH method?:
 No Yes
 Considered disease relapse/progression: No Yes
 Last date assessed _____
 yyyy mm dd
 Not evaluated
 yyyy mm dd
 Fill in only for acute and chronic LEUKAEMIAS
 Was disease detected by molecular method?:
 No Yes
 Considered disease relapse/progression: No Yes
 Last date assessed _____
 yyyy mm dd
 Not evaluated
 yyyy mm dd

CONCEPTION
 Has patient or partner become pregnant after this transplant?
 Yes No Unknown

PATIENT STATUS
 Survival Status:
 Alive Dead
 Check here if patient lost to follow up
 Main Cause of Death (check only one main cause): _____

Launched in July, 2010

Submission status in 2010

Country / region	Participation in the APBMT Activity Survey	National (international) registry	Submission
Australia and New Zealand	Yes	Yes	No
China	Yes	No	No
Hong Kong	Yes	No	No
India	Yes	Under development	No
Indonesia	No	No	No
Iran	Yes	No	No
Japan	Yes	Yes	Yes
Korea	Yes	Yes	No
Malaysia	Yes	Yes	No
Pakistan	Yes	No	No
Phillippine	Yes	No	No
Singapore	Yes	No	No
Taiwan	Yes	Under development	No
Thailand	Yes	Under development	No
Vietnam	Yes	No	No

What are the barriers?

- Limited resources
 - Physicians are the ones who need to fill in the forms
 - Lack of trained data managers
 - Lack of financial support
- Too many items
 - Simplifying the Report Forms to “Least” Minimum Dataset was desired by 11/16 countries / region

Simplifying Forms = Taking variables capable for analyses

APBMT Center#: _____ Unique Patient Number (UPN): _____ HSCT Date: _____ / _____ / _____

APBMT Registry
Day 100 report sheet 1

PRIMARY DISEASE DIAGNOSIS

CENTRE IDENTIFICATION
APBMT Center # _____
CIBMTR Center # _____
EBMT Code (CIC): _____
Hospital: _____ Unit: _____
Contact person: _____
Phone: _____
Fax: _____
e-mail: _____

PATIENT IDENTIFICATION
Unique Patient Number or Code: _____
Compulsory, registrations will not be accepted without this item
Initials: _____ (first name(s), family name(s))
Date of Birth: _____ / _____ / _____
Sex: Male Female

HSCT (cont.)
Source of Stem Cells (check all that apply):
 Bone Marrow Peripheral Blood
 Cord Blood Other: _____
Date of this HSCT: _____ / _____ / _____
Chronological no. of HSCT for this patient: _____
Date of most recent previous HSCT: _____ / _____ / _____

(Check all that apply)
 TBI Gy _____ mg/m² mg/kg _____
 TL1, TN1, TA1 _____
 ALG, ALS, ATG, ATS (before do) _____
 Horse Rabbit Other, specify _____

Type of HSCT:
 Autologous (SKIP ITEMS BELOW AND CONTINUE FROM TOP OF NEXT COLUMN)
 Allogeneic

(Including multiple CB units)
If yes, replicate and fill the Donor box below as many times as necessary

DONOR
Donor ID: _____
HLA match type:
 Syngeneic (monozygotic twin)
 HLA-identical sibling (may include non-monozygotic twin)
 HLA-matched other relative
 HLA-mismatched relative:
Degree of allele mismatch: 1 HLA antigen mismatch ≥2 HLA antigen mismatch
 Unrelated donor
Name of donor registry/CB Bank: _____
WMDA code (up to 4 characters): _____
Complete number of mismatches inside each box:
A B C DRB1 DQB1 DPB1
 Antigenic
HLA code is 2 digits
 Allelic
HLA code is 4 digits
Mismatch: 1=one mismatch; 2=2 mismatches; ND=not done
PLEASE ATTACH LABORATORY RESULTS
Donor Sex: Male Female
Donor CMV status: Negative Positive
 Not evaluated unknown

(Check all that apply)
 anthracycline
 daunorubicin
 doxorubicin
 idarubicin
 bioninib
 busulfan
 Oral IV Both
 carboplatin
 carmustine (BCNU)
 cisplatin
 corticosteroids
 cyclophosphamide
 cytarabine (Ara-C)
 etoposide (VP16)
 flutasterone
 ifosfamide
 Imatinib mesylate (Gleevec, Glivec)
 lomustine (CCNU)
 mephalan(L-PAM)
 mitoxantrone
 monoclonal antibody(MAb)
 Campath
 Rituximab (Rituxan, anti-CD20)
 Gemtuzumab (Mylotarg, anti-CD33)
 Other MAb
Specify _____
 paclitaxel (Taxol, Xyotax)
 tenoposide (VM26)
 thiotepa
 other, specify: _____
 radiolabelled MAb
 Tositumomab(Bexxar)
 Ibritumomab(Zevalin)
 Other rMab
Specify _____

1

APBMT Center#: _____ Unique Patient Number (UPN): _____ HSCT Date: _____ / _____ / _____

APBMT Registry
Day 100 report sheet 2

AFTER HSCT
GVHD prophylaxis given (Allografts only)
 No Yes: Immunosuppressive chemotherapy
 ALG, ALS, ATG, ATS (after do)
 Corticosteroids
 Cyclosporine (CSA)
 ECP (extra-corporeal photopheresis)
 FK 506 (Tacrolimus, Prograf)
 Methotrexate (MTX)
 in vivo monoclonal antibody (MAb)
 Anti CD25 (Zenapax, Daclizumab, AntiTAC)
 Campath
 Etanercept (Enbrel)
 Infliximab (Remicade)
 Other, specify _____
 Mycophenolate (MMF, Cellcept)
 Sirolimus (Rapamycin, Rapamune)
 Other drug, specify _____
Absolute neutrophil count (ANC) recovery (engraftment) (Neutrophils $\geq 0.5 \times 10^9/L$)
 No: Date of last assessment: _____ / _____ / _____
 Yes: Date of ANC recovery: _____ / _____ / _____
 Lost graft
 Never below
 Unknown
Acute Graft Versus Host Disease (Allografts only)
Maximum Grade: 0 (none) I II III IV
 Present but grade unknown Not applicable

Malignant Disease Evaluation for this HSCT (cont.)
First relapse or progression after HSCT (Any type, not persistent disease)
 No Yes
If yes, tick all methods used for assessment with the dates on which they were used and the results.
Relapse/progression detected by clinical/haematological method:
 No: Date assessed _____ / _____ / _____
 Yes: Date first seen _____ / _____ / _____
 Not evaluated _____ / _____ / _____

PATIENT STATUS AT LAST CONTACT
Survival status:
 Alive Dead Died before HSCT
Check here if patient lost to follow up
Date of last contact: _____ / _____ / _____
Date of last follow up or death: _____ / _____ / _____
Main Cause of Death (check only one main cause):
 Relapse or Progression/Persistent disease
 HSCT Related Cause (check as many as appropriate):
 GVHD Cardiac Toxicity
 Rejection/Poor graft function Infection
 Pulmonary toxicity Veno occlusive disorder
 Other: _____
 Unknown
 Other: _____

Malignant Disease Evaluation for this HSCT
Non-malignant disease skip disease evaluation
Best disease status (response) after HSCT (prior to treatment modification in response to a post HSCT disease assessment)
 Continued complete remission (CR)
 CR achieved: Date achieved: _____ / _____ / _____
 Never in CR: Date assessed: _____ / _____ / _____
 Not evaluated _____ / _____ / _____

2

Balance between what we can do and what we need

What we can do

Forms as simple as possible

The burden to the centers vary according to the supporting situation;

Financial support
Data managers



What we need

Items needed for analyses

Depends on what you want to know from the analyses;

For research purposes, the number of items required are usually large.

What was taken out for the simplified version

- Dose information of the agents used for preparative regimen
- Cytogenetic / molecular test results of the disease status post transplant (only clinical / hematological test considered)
- Additional treatment including cell infusion
- Disease information at diagnosis (only information at transplant)

Least Minimum Dataset

APBMT Centers: _____ Unique Patient Number (UPN): _____ HSCT Date: _____/_____/_____
 APBMT Registry
 Day 100 report sheet

CENTRE IDENTIFICATION
 APBMT Center # _____ Unit _____
 Hospital: _____
 Contact person: _____
 Country: Australia China Hong Kong India Indonesia Iran Japan Korea Malaysia New Zealand Pakistan Philippines Singapore Taiwan Thailand Vietnam

PATIENT IDENTIFICATION
 Unique Patient Number or Code: _____
 Date of birth: _____/_____/_____
 Sex: Male Female

Disease
 ALL CLL MDS CLL/Indol. PBL MPD/NPMD ATL NHL Hodgkin PCID/MM BM aplasia/other SAA Hemoglobinopathy Solid tumor Other _____

HSCT
 Type of HSCT: Autologous Allogeneic
 Source of Stem Cells (check all that apply): Bone Marrow Peripheral Blood Cord Blood Other: _____
 Date of 1st HSCT: _____/_____/_____
 Date of 2nd HSCT: _____/_____/_____
 Chronological no. of HSCT for this patient: _____
 Was this intended to be myeloablative? (also only): Yes No

DONOR
 HLA match type: Sibling (monozygotic twin) HLA-identical sibling (may include non-monozygotic twin) HLA-matched other relative HLA-mismatched relative
 Degree of allele mismatch: 1 HLA antigen mismatch ≥2 HLA antigen mismatch
 Unrelated donor
 Complete number of mismatches inside each box:
 A _____ B _____ C _____ DRB1 _____ DQB1 _____
 Antigenic HLA code is 2 digits
 Allelic HLA code is 4 digits
 Mismatch: HLA mismatch: 2=2 mismatches; HD=not done
 Donor: Sex _____ Male _____ Female _____

Preparative regimen
 (Check all that apply) _____ Gy
 TBI _____
 TLI, TMI, TAI _____
 ALG, ALS, ATG, ATG (before/d) _____
 Horse _____ Rabbit _____
 Anthracycline _____
 daunorubicin doxorubicin idarubicin
 bleomycin busulfan _____
 carboplatin _____
 cyclophosphamide (BCNU) _____
 cyclosporin _____
 corticosteroids _____
 cyclophosphamide cyclosporin (Ac-C) _____
 etoposide (VP16) _____
 flutasterine _____
 flucanazole _____
 imatinib mesylate (Gleevec, Glivec) _____
 lomustine (CCNU) _____

GVHD prophylaxis given (Allograft only)
 No Yes: Immunosuppressive chemotherapy ALG, ALS, ATG, ATG (after/d) Corticosteroids Cyclosporine (CSA) ECP (extra-corporeal photopheresis) FK 506 (Tacrolimus, Prograf) Methotrexate (MTX) In vivo monoclonal antibody (MAB) Mycophenolate (MMF, Cellcept) Sirolimus (Rapamycin, Rapamune) Other drug, specify: _____

Absolute neutrophil count (ANC) recovery (engraftment) (leukopenia ≥2.5x10⁹/L)
 No Yes: Date of last assessment: _____/_____/_____
 Yes: Date of ANC recovery: _____/_____/_____
 Lost graft Never below Unknown

Acute Graft Versus Host Disease (Allograft only)
 Maximum Grade: 0 (none) I II III IV Present but grade unknown Not applicable

Best disease status (response) after HSCT (prior to treatment modification in response to a post HSCT disease assessment)
 Continued complete remission (CR) CR achieved: Date achieved: _____/_____/_____
 CR achieved: Date assessed: _____/_____/_____
 Not evaluated

First relapse or progression after HSCT (Not persistent disease)
 Relapse/progression detected by clinical/haematological method:
 No Date assessed: _____/_____/_____
 Yes: Date first seen: _____/_____/_____
 Yes: Date first seen: _____/_____/_____
 Not evaluated

Survival Status:
 Alive Dead Died before HSCT
 Date of last contact: _____
 Date of last follow up or death: _____/_____/_____
Main Cause of Death (check only one main cause):
 Relapse or Progression/Persistent disease HSCT Related Cause (check as many as appropriate): Cardiac Toxicity GVHD Infection Rejection/Poor graft function Pulmonary toxicity Veno occlusive disorder Other _____
 Unknown Other: _____

One page for day100 report

APBMT Centers: _____ Unique Patient Number (UPN): _____ HSCT Date: _____/_____/_____
 APBMT Registry
 Disease classification sheet

AML ALL Other Acute Leukemias

ACUTE LEUKEMIAS

Classification:

AML with recurrent genetic abnormalities
 AML with t(8;21)(q22;q22) (AML1/ETO) Precursor B-cell ALL Acute undifferentiated leukaemia AML with abnormal bone marrow eosinophilia and inv(16)(p13q22) or t(16;16)(p13;q22) CEBPA/MLL1 t(11;19)(q23;p13) ETV6/ABL1 t(12;11)(p13;p25) ETV6/CFR-alpha Precursor T-cell ALL ALL not otherwise specified

Acute Lymphoblastic Leukemia (ALL)
 Precursor B-cell ALL Acute undifferentiated leukaemia Biphonotypic, oligocytic, hybrid Acute mast cell leukaemia Other, specify: _____

Other Acute Leukemias
 Acute undifferentiated leukaemia Biphonotypic, oligocytic, hybrid Acute mast cell leukaemia Other, specify: _____

AML not otherwise categorised
 AML, minimally differentiated (FAB M0) AML, without maturation (FAB M1) AML with maturation (FAB M2) Acute myelomonocytic leukaemia (FAB M4) Acute monocytic/acute monocytic leukaemia (FAB M5) Acute erythroid leukaemia (erythroid/myeloid and pure erythroleukemia) (FAB M6) Acute megakaryoblastic leukaemia (FAB M7) Acute basophilic leukaemia Acute panmyelosis with myelofibrosis Myeloid sarcoma AML not otherwise specified

Transformed from MDG → Complete MDG section on Disease Classification sheet 3. Do not complete the remainder of AML

Secondary origin
 Yes: Disease related to prior exposure to therapeutic drugs or radiation No Unknown

Status at HSCT:
STATUS **NUMBER** **FOR COMPLETE REMISSION ONLY, TYPE OF REMISSION**
 Primary induction failure (complete only for CR or relapse) No Yes Not evaluated Unknown
 Complete haematological remission (CR) 1st 2nd 3rd or higher Relapse Cytogenetic Molecule Never treated Never in CR: Date assessed: _____/_____/_____
 Previously reported

One page for disease items

APBMT Centers: _____ Unique Patient Number (UPN): _____ HSCT Date: _____/_____/_____
 APBMT Registry
 Follow up sheet 1st year post transplant and yearly follow-up

CENTRE IDENTIFICATION
 APBMT Center # _____ Unit _____
 Hospital: _____
 Contact person: _____
 Country: Australia China Hong Kong India Indonesia Iran Japan Korea Malaysia New Zealand Pakistan Philippines Singapore Taiwan Thailand Vietnam

PATIENT IDENTIFICATION
 Unique Patient Number or Code: _____
 Date of transplant: _____/_____/_____
 Date of last follow up or death: _____/_____/_____
COMPLICATIONS OF TRANSPLANT
 Chronic Graft Versus Host Disease present during this period
 No (never) Limited Extensive Unknown

FIRST RELAPSE OR PROGRESSION
 First Relapse or Progression after HSCT
 Relapse/progression detected by clinical/haematological method:
 No Date assessed: _____/_____/_____
 Yes: Date first seen: _____/_____/_____
 Yes: Date first seen: _____/_____/_____
 Continuous progression since HSCT Not evaluated

PATIENT STATUS
 Survival Status:
 Alive Dead Died
 Check here if patient lost to follow up
 Main Cause of Death (check only one main cause):
 Relapse or Progression/Persistent disease Secondary malignancy HSCT Related Cause (check as many as appropriate): Cardiac Toxicity GVHD Infection Rejection/Poor graft function Pulmonary toxicity Veno occlusive disorder Post transplant lymphoproliferative disorder Other: _____
 Unknown Other: _____

One page for follow-up

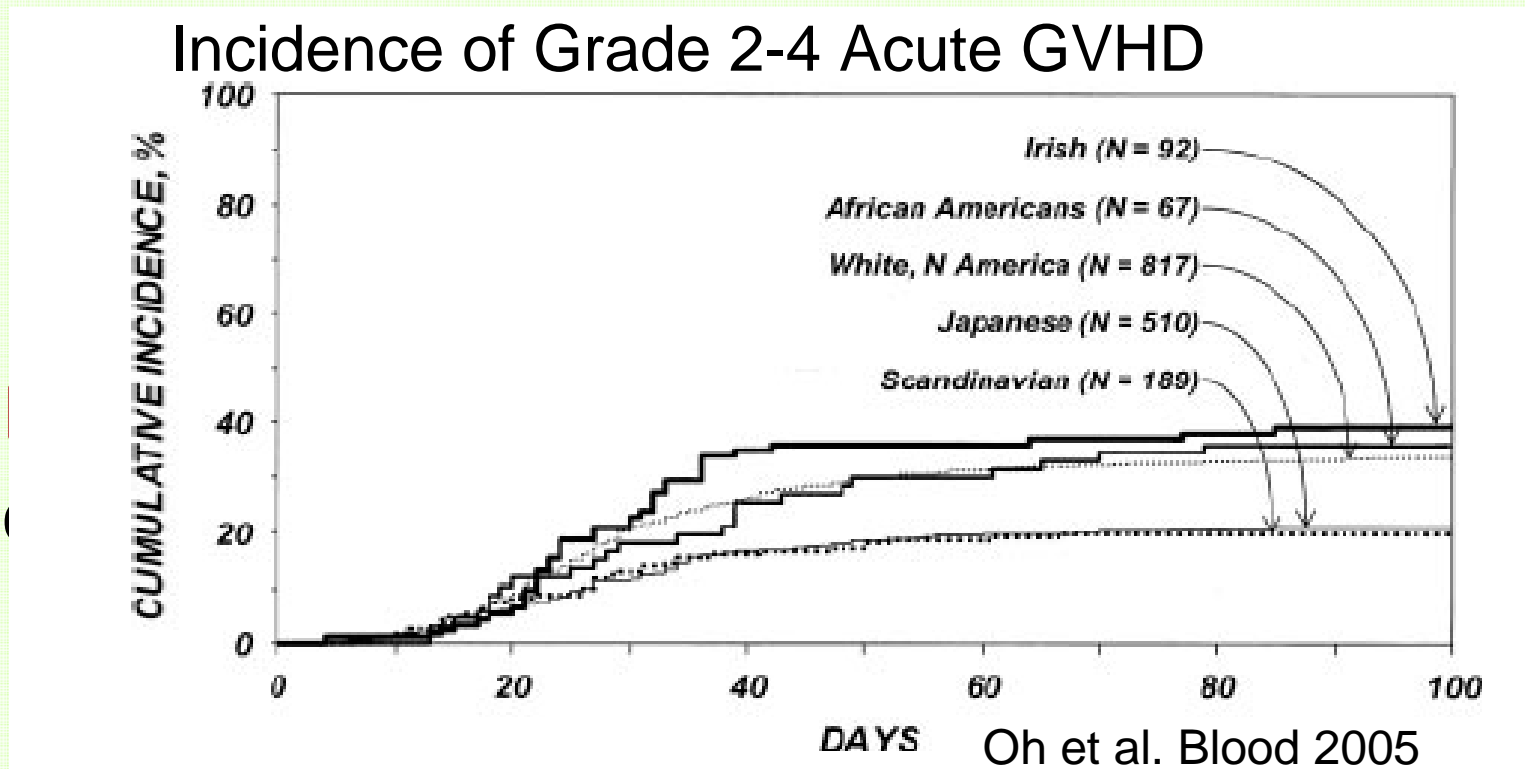
Launched in July, 2010

Submission status in 2011

Country / region	Participation in the APBMT Activity Survey	National (international) registry	Submission
Australia and New Zealand	Yes	Yes	No
China	Yes	No	Yes
Hong Kong	Yes	No	No
India	Yes	Under development	No
Indonesia	No	No	No
Iran	Yes	No	No
Japan	Yes	Yes	Yes
Korea	Yes	Yes	No
Malaysia	Yes	Yes	No
Pakistan	Yes	No	Yes
Phillippine	Yes	No	Yes
Singapore	Yes	No	Yes
Taiwan	Yes	Under development	Yes
Thailand	Yes	Under development	No
Vietnam	Yes	No	No

The role of APBMT Outcome Registry

- Many important clinical questions
 - Ethnic differences in outcomes



Why is building outcome database important?

It is important for

- Transplant teams (physicians and nurses)
- Governments
- Patients

Because

- Summarized result of the outcomes of transplant
- To find answers for clinical questions
- Leads to the improvement of transplant practice

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