Matched Sibling Donor group (MSD)
First HLA-identical sibing tx, age less than 18y, for AML, ALL, CML and MDS (n=5393)
Myeloablative conditioning regimen (n=5182)
BM or PB (n=5124)
Take out T-cell depleted or CD34 selected (n=4766)
Year of tx 1993-2006 (n=2150)
Exclude GVHD prophylaxis other than CNI based (n=2129)
Exclude disease status unknown (n=2099)
Restrict to teams contributing to 1-Ag mismatched related and phenotypic match groups
(n=1354)
Bone Marrow cases only (n=1208)

One-antigen mismatched and phenotypically matched related group (mmRD)
First tx, age less than 18y, for AML, ALL, CML and MDS with donor who is either a
One-Ag mismatch or phenotypic matched relative (n=363)
Myeloablative conditioning regimen (n=335)
BM or PB (n=332)
Take out T-cell depleted or CD34 selected cases (n=273)
Year of tx 1993-2006 (n=256)
Exclude GVHD prophylaxis other than CNI based (n=255)
Exclude disease status unknown (n=253)
HLA match verified by HLA lab reports (n=196)
Keep BM cases only (n=151)

8/8 matched unrelated donor group (URD)
First tx, age less than 18y, for AML, ALL, CML and MDS with unrelated donor (n=3094)
Myeloablative conditioning regimen (n=2921)
BM or PB (n=2627)
Take out T-cell depleted or CD34 selected (n=1804)
Year of tx from 1993-2006 (n=1653)
Restrict to 8/8 matched at A, B, C, and DRB1 from NMDP high resolution retrospective typing
program (n=364)
CAP modeling (n=331)*
Exclude GVHD prophylaxis other than CNI based (n=326)
Exclude disease status unknown (n=324)
Keep BM cases only (n=266)

* CAP modeling – as described in study population in Methods