

Supplementary Table 1: Standard TTE Measurements between patients who received only BMT, BMT and anthracyclines and controls (presented as mean \pm SD)

	BMT only (n=40)	BMT + AC (n=80)	Controls (n=80)	P value
LV EDV (ml/m ² ; indexed)	45 \pm 12	49 \pm 14	49 \pm 11	0.240
LV ESV (ml/m ² ; indexed)	18 \pm 6	21 \pm 7	19 \pm 5	0.061
IVSd (mm)	9 \pm 2	9 \pm 2	9 \pm 1	0.612
PWd (mm)	9 \pm 2	9 \pm 2	8 \pm 2	0.254
LV mass (g/m ² ; indexed)	79 \pm 20	75 \pm 22	73 \pm 17	0.628
TAPSE (mm)	23 \pm 4	21 \pm 4	23 \pm 3	0.155
RV s' (cm/s)	11 \pm 2	10 \pm 2* [^]	12 \pm 2	0.001
Peak E (m/s)	0.70 \pm 0.16	0.65 \pm 0.17 [^]	0.73 \pm 0.16	0.013
Peak A (m/s)	0.68 \pm 0.20 [#]	0.65 \pm 0.17 [^]	0.55 \pm 0.14	0.001
Average e' (cm/sec)	9 \pm 3 [#]	9 \pm 3 [^]	11 \pm 3	0.001
E/Average e'	8.5 \pm 2.7 [#]	8.3 \pm 2.6 [^]	7.1 \pm 2.8	0.005
LA volume indexed (ml/m ²)	31 \pm 9 [#]	26 \pm 8	27 \pm 6	0.001
TR velocity (m/s)	1.8 \pm 0.7	1.9 \pm 0.6	2.0 \pm 0.4	0.932

Abbreviations – EDV: end diastolic volume, ESV: end systolic volume, FAC: fractional area change, GCS:

global circumferential strain, GLS: global longitudinal strain, LA: left atrium, RV FWS: right ventricle free wall strain, TAPSE: tricuspid annular plane systolic excursion, TR: tricuspid regurgitation, TTE: transthoracic echocardiogram

*Comparing BMT only to BMT + Anthracycline (p<0.005 unless stated otherwise)

[^]Comparing BMT + Anthracycline to Controls (p<0.005 unless stated otherwise)

[#]Comparing BMT only to Controls (p<0.005 unless stated otherwise)

Supplementary Table 2A: Patients who received myeloablative conditioning

	BMT	BMT+AC	p-value
GLS	-18.3±2.8	-17.8±3.1	0.887
GCS	-14.6±2.8	-15.1±4.2	0.764
RV FWS	-22.8±3.3	-22.6±5.2	0.736

Abbreviations – GCS: global circumferential strain, GLS: global longitudinal strain, RV FWS: right ventricle free wall strain

Supplementary Table 2B: Patients who received reduced intensity conditioning

	BMT	BMT+AC	p-value
GLS	-20.2±2.1	-18.3±2.7	0.001
GCS	-16.3±3.5	-14.6±2.8	0.027
RV FWS	-24.7±3.4	-22.9±3.7	0.008

Abbreviations – GCS: global circumferential strain, GLS: global longitudinal strain, RV FWS: right ventricle free wall strain

Supplementary Table 3A: Pre-conditioning regimes used

	Conditioning regime
Myeloablative	Cyclophosphamide + Total Body Irradiation
	Cyclophosphamide + Busulphan
	Fludarabine + Busulphan
Reduced Intensity	Fludarabine + Melphalan + Carmustine
	Fludarabine + Cyclophosphamide + Total Body Irradiation
	Cyclophosphamide + Anti-Thymocyte Globulin
	Fludarabine + Melphalan
	Fludarabine + Cyclophosphamide + Alemtuzumab
	Fludarabine + Cyclophosphamide + Anti-Thymocyte Globulin
	Fludarabine + Busulphan
	Fludarabine + Cyclophosphamide + Rituximab
	Fludarabine + Amsacrine + Cytarabine
	Fludarabine + Cyclophosphamide

Supplementary Table 3B: Common anthracycline containing regimes.

Protocol	Anthracycline agents
7:3	Idarubicin
FLAG-Ida	Idarubicin
ALL06	Daunorubicin; Doxorubicin
ALL08	Daunorubicin; Doxorubicin
CHOP	Doxorubicin
CHOEP	Doxorubicin
BFM2000	Daunorubicin; Doxorubicin
HyperCVAD	Doxorubicin
FLAMSA	Amsacrine
GIVE	Epirubicin
GVD	Doxorubicin
CALGB	Daunorubicin; Doxorubicin
GMALL 05/93	Daunorubicin; Doxorubicin; Mitoxantrone
LALA	Daunorubicin
ABVD	Doxorubicin
BEACOPP	Doxorubicin