

Table D9: Population characteristics –CRT D clinical predictors

Author,Year Trial	Arm (arm name): n(%)	Female, n (%) Race, n(%)	Age (years) Mean, median, range	Ischemic cardiomyopathy, n (%)	Atrial fibrillation, n (%)	QRS interval, Mean, median, range	QRS morphology - LBBB, n(%) RBBB, n(%) IVCD, n(%) PBBBlock, n(%)	NYHA class, n(%)	LVEF, Mean, median, range, SD	Creatinine GFR
Gold,2011 ³⁶ SMART AV Sub Study	Overall(Overall):426	F: 145(34) NR	Mean: 66 Med: NR Range: NR SD: 11	251(59)	NR	Mean: 151 Med: NR Range: NR SD: 19	LBBB :320(75) RBBB: 55(13) IVCD: 51(12) PBBBlock: NR	II: 14(3) III: 400(94) IV: 14(3)	Mean: 26 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Goldenberg,2011 ¹² MADIT CRT Sub Study	Arm 1(ICD):731	F: 178(24.4) W:"657/724 "(90.7) AA:"56/724 "(7.7) O:"11/724(1.5)	Mean: 64 Med: NR Range: NR SD: 11	401(54.9)	"90/717(12.6)	Mean: NR Med: NR Range: NR SD: NR	LBBB :520/729(71.3) RBBB: "92/729(12.6) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 2(CRT D):1089	F: 275(25.3) W:"979/1083(90.4) AA:"87/1083(8) O:"17/1083(1.6)	Mean: 65 Med: NR Range: NR SD: 11	598(55)	"118/1063(11.1)	Mean: NR Med: NR Range: NR SD: NR	LBBB :761/1088(69.9) RBBB: "136/1088(12.5) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Mascioli,2012 ⁶⁴	Arm 1(Group 1):61	F: 18(30) NR	Mean: 68 Med: NR Range: NR SD: 10	31(51)	NR	Mean: 162 Med: NR Range: NR SD: 11	LBBB :NR(100) RBBB: NR IVCD: NR PBBBlock: NR	II: 14(23) III: 32(52) IV: 15(54)	Mean: 27 Med: NR Range: NR SD: NR	Creat: NR GFR: NR

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	Arm 2(Group 2):50	F: 17(33) NR	Mean: 70 Med: NR Range: NR SD: 7	30(60)	NR	Mean: 159 Med: NR Range: NR SD: 16	LBBB :NR(100) RBBB: NR IVCD: NR PBBBlock: NR	II: 11(22) III: 26(52) IV: 13(26)	Mean: 27 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Penn, 2010 ¹⁷ MADIT CRT Sub Study	Arm 1(Age<60):548	F: (24) NR	Mean: Med: 53 Range: SD:	(38)	(8)	Mean: 160 Med: NR Range: NR SD: 20	LBBB :(73) RBBB: () IVCD: () PBBBlock: ()	I: 49(9) II: 499(91)	Mean: 23.1 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 2(Age 60- 74):941	F: (27) NR	Mean: Med: 67 Range: SD:	(59)	(12)	Mean: 158 Med: NR Range: NR SD: 20	LBBB :(69) RBBB: () IVCD: () PBBBlock: ()	I: 151(16) II: 790(84)	Mean: 23.9 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 3(Age >75):331	F: (22) NR	Mean: Med: 78 Range: SD:	(70)	(16)	Mean: 156 Med: NR Range: NR SD: 19	LBBB :(70) RBBB: () IVCD: () PBBBlock: ()	I: 63(19) II: 268(81)	Mean: 24.5 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Shen,2009 ⁷³	Arm 1(I- LBBB(CRT- D):67	F: 21(31.3) NR	Mean: 70 Med: NR Range: NR SD: 9	NR	NR	Mean: 160 Med: NR Range: NR SD: 26	LBBB :NR RBBB: NR IVCD: NR PBBBlock: NR(100)	NR	Mean: 20.6 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 2(RV- LBBB(CRT- D)):28	F: 6(21.4) NR	Mean: 70 Med: NR Range: NR SD: 10	NR	NR	Mean: 178 Med: NR Range: NR SD: 28	LBBB :NR RBBB: NR IVCD: NR PBBBlock: NR(100)	NR	Mean: 19.7 Med: NR Range: NR SD: NR	Creat: NR GFR: NR

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Rickard,2013 ⁷⁰	Overall(Overall):112	F: 33(29.5) NR	Mean: 69.3 Med: NR Range: NR SD: 11.2	62(55.4)	79(70.5)	Mean: 187.8 Med: NR Range: NR SD: 23	NR	NR	Mean: NR Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Shen,2011 ⁷⁵	Arm 1(Group A):100	F: 27(27) NR	Mean: 70 Med: NR Range: NR SD: 10	NR	NR	Mean: 165 Med: NR Range: NR SD: 28	NR	NR	Mean: NR Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 2(Group B):36	F: 11(31) NR	Mean: 71 Med: NR Range: NR SD: 13	NR	NR	Mean: 163 Med: NR Range: NR SD: 27	NR	NR	Mean: NR Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Cheng, 2012 ³⁵ SMART AV Sub Study	Overall():846	F: 277(32.7) NR	Mean: Women: 65.2, Men: 66.5 Med: Range: SD: Women: 11.3, Men: 10.9	475(56.2)	122(14.4)	Mean: NR Med: NR Range: NR SD: NR	LBBB :651(76.9) RBBB: () IVCD: () PBBBlock: ()	II: Women=2,M en=3() III: Women=96, Men=94() IV: Women=2,m en=3()	Mean: 24.8, Men: 24.3 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Shanks,2011 ⁷²	Overall(Overall):581	F: 130(22.4) NR	Mean: 66.4 Med: NR Range: NR SD: 10	351(60.4)	NR	Mean: 153.6 Med: NR Range: NR SD: 31.5	LBBB :405(69.7) RBBB: 39(6.7) IVCD: 137(23.6) PBBBlock: NR	IV: 36(6.2)	Mean: 26 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 1(Responders):327	F: 78(23.7) NR	Mean: 66.2 Med: NR Range: NR SD: 10.3	174(53.2)	NR	Mean: 156 Med: NR Range: NR SD: 32.5	LBBB :233(71.2) RBBB: 18(5.5) IVCD: 76(23.3)	NR	Mean: 26.2 Med: NR Range: NR SD: NR	Creat: NR GFR: NR

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							PBBBlock: NR			
	Arm 2(Non Responders):2 54	F: 46(18.1) NR	Mean: 66.5 Med: NR Range: NR SD: 9.6	77(30.3)	NR	Mean: 150.6 Med: NR Range: NR SD: 29.9	LBBB :172(67.7) RBBB: 21(8.2) IVCD: 61(24.1) PBBBlock: NR	NR	Mean: 25.6 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Shen,2009 ⁷⁴	Overall(Overall):108	F: 30(28) NR	Mean: 70.3 Med: NR Range: NR SD: 10	69(63.8)	NR	Mean: 164.7 Med: NR Range: NR SD: NR	NR	NR	Mean: 20.7 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Hsu,2012 ¹⁴ MADIT CRT Sub Study	Arm 1(ICD):731	F: 178(24.4) W:657/724(90.7) AA:56/724(7.7) O:11/724(1 .5)	Mean: 64 Med: NR Range: NR SD: 11	401(54.9)	90/717(12. 6)	Mean: NR Med: NR Range: NR SD: NR	LBBB :520/729(71.3) RBBB: 92/729(12.6) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 2(CRT- D):1089	F: 275(25.3) W:979/108 3(90.4) AA:87/1083 (8) O:17/1083(1.6)	Mean: 65 Med: NR Range: NR SD: 11	598(55)	118/1063(1 1.1)	Mean: NR Med: NR Range: NR SD: NR	LBBB :761/1088(69. 9) RBBB: 136/1088(12. 5) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: NR GFR: NR

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Leong,2013 ⁶³	Overall(Entire Cohort):848	F: 184(22) NR	Mean: 67 Med: NR Range: NR SD: NR	509(60)	137(16)	Mean: 155 Med: NR Range: NR SD: 33	LBBB :NR RBBB: NR IVCD: NR PBBBlock: 42(5)	II: 196(23) III: 580(68) IV: 72(9)	Mean: 26 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 1(Impaired right ventricle function):286	F: 53(19) NR	Mean: 67 Med: NR Range: NR SD: NR	188(66)	74(26)	Mean: 154 Med: NR Range: NR SD: 32	LBBB :NR RBBB: NR IVCD: NR PBBBlock: 16(5)	II: 50(17) III: 200(70) IV: 36(13)	Mean: 24 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
	Arm 2(Preserved right ventricle function):562	F: 131(23) NR	Mean: 67 Med: NR Range: NR SD: NR	321(57)	63(11)	Mean: 156 Med: NR Range: NR SD: 33	LBBB :NR RBBB: NR IVCD: NR PBBBlock: 26(4)	II: 146(26) III: 380(68) IV: 36(6)	Mean: 27 Med: NR Range: NR SD: NR	Creat: NR GFR: NR
Bilchick ,2010 ⁴⁷	Overall	F: 4080(27.3) NR	Mean: 73.02 Med: NR Range: NR SD: 10.5	10340(69.18)	5190(34.73)	Mean: 156.3 Med: NR Range: NR SD: 25.03	LBBB :10356(69.3) RBBB: 1638(10.96) IVCD:2952(1 9.76) PBBBlock: NR	I:1.21% II:10.99% III:74.07%	Mean: 23.13 Med: NR Range: NR SD: 6.34	Creat: NR GFR: NR
Niebauer,2014 ⁶⁸	Arm 1(Responders) :94	F: 49(94) NR	Mean: 64.4 Med: NR Range: NR SD: 10.9	30(31.9)	NR	NR	LBBB: 94(100) RBBB: NR(NR) IVCD: NR(NR) PBBBlock: NR(NR)	NR	Mean: NR Med: NR Range: NR SD: NR	Creat: 1.28mg/dl GFR: NR

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	Arm 2(Non responders):7 6	F: 24(76)	Mean: 63.8 Med: NR Range: NR SD: 11	42(55.3)	NR	NR	LBBB: 76(100) RBBB: NR(NR) IVCD: NR(NR) PBBBlock: NR(NR)	NR	Mean: NR Med: NR Range: NR SD: NR	Creat: 1.44mg/dl GFR: NR

F-Female, W-White, AA-African American, O-Others, NR-Not Reported, SD-Standard Deviation, Med-Median, n-Number, LBBB-Left Bundle Branch Block, RBBB-Right, Bundle Branch Block, IVCD-Intra Ventricular Conduction Delay, PBBBlock-Paced Bundle Branch Block, NYHA-New York Heart Association, LVEF-Left Ventricular Ejection Fraction, GFR-Glomerular Filtration Rate