PANORAMA 1 VS 2	Country	Median age*
1	ARGENTINA	30.5
1	AUSTRIA	41.9
1	BAHAMAS	29.4
1	BELARUS	38.9
1	BELGIUM	40.9
1	BRAZIL	29.2
1	COLOMBIA	27.5
1	CZECH REPUBLIC	39.6
1	DENMARK	40.6
1	DOMINICAN REPUBLIC	25
1	ECUADOR	25
1	ESPAGNA	40
1	GERMANY	44.3
1	GREECE	41.1
1	INDIA	25.1
1	KUWAIT	29.5
1	LATVIA	40.8
1	LITHUANIA	40.6
1	LUXEMBURG	38.9
1	MEXICO	26.2
1	NETHERLANDS	40.8
1	POLAND	38.1
1	PUERTO RICO	34.7
1	ROMANIA	39.4
1	RUSSIAN FEDERATION	38
1	SAUDI ARABIA	26
1	SERBIA	38.7
1	SLOVAKIA	37.3
1	SOUTH AFRICA	25
1	TURKEY	28.3
1	UNITED KINGDOM	39.5

Supplemental Table 1: List of countries with median age in each registry.

1	URUGUAY	33.9
1	VENEZUELA	25.8
1	VIRGIN ISLANDS, U.S.	39.2
2	BANGLADESH	25.7
2	BELGIUM	40.9
2	BOSNIA AND HERZEGOVINA	40.7
2	CHINA	36.7
2	DENMARK	45.9
2	EGYPT	24.3
2	FRANCE	41.2
2	GERMANY	45.9
2	GREECE	43.4
2	INDIA	26.8
2	LITHUANIA	42.7
2	LUXEMBOURG	39.3
2	PAKISTAN	21.8
2	ROMANIA	41.3
2	RUSSIAN FEDERATION	38.6
2	SAUDI ARABIA	30
2	SLOVAKIA	39.2
2	SOUTH AFRICA	26.4
2	TAIWAN, PROVINCE OF CHINA	39.7
2	TUNISIA	31.3
2	UKRAINE	40

* Median age as reported by the United Nations' data-portal.

Supplementary Table 2: Baseline characteristics stratified by sex.

	Total	Female	Male	P value	
Clinical Characteristics	(N = 5259)	(N = 1971)	(N = 3288)		
Demographics					
Age, Mean ± SD	69.1 ± 14.8	68.8 ± 15.9	69.3 ± 14.1	0.696	
BMI (kg/m²), Mean ± SD	26.9 ± 5.1	26.8 ± 5.7	26.9 ± 4.7	0.017	
From a "young country" *	37.6% (1978/5259)	42.0% (828/1971)	35.0% (1150/3288)	<0.001	
Device and implant characteristics				<0.001	
Pacemaker	83.2% (4353/5229)	90.4% (1773/1961)	78.9% (2580/3268)		
Other devices (ICD/CRT) **	16.8% (876/5229)	9.6% (188/1961)	21.1% (688/3268)		
Single or dual chamber				0.004	
Single-chamber	18.0% (772/4281)	20.2% (336/1667)	16.7% (436/2614)		
Dual-chamber	82.0% (3509/4281)	79.8% (1331/1667)	83.3% (2178/2614)		
mplant setting				0 257	

0.257

Operating room	24.0% (804/3348)	23.0% (299/1302)	24.7% (505/2046)	
EP/cardiac catheter lab	76.0% (2544/3348)	77.0% (1003/1302)	75.3% (1541/2046)	
Medical history				
Hypertension	62.4% (3278/5250)	62.5% (1230/1969)	62.4% (2048/3281)	0.972
Diabetes mellitus	29.2% (1505/5158)	26.5% (509/1922)	30.8% (996/3236)	0.001
Dyslipidemia	34.0% (1779/5231)	29.0% (570/1963)	37.0% (1209/3268)	<0.001
Coronary artery disease	26.4% (1380/5218)	14.9% (292/1960)	33.4% (1088/3258)	<0.001
Prior myocardial infarction	13.4% (702/5234)	7.1% (140/1965)	17.2% (562/3269)	<0.001
Prior CABG	8.1% (427/5257)	2.8% (55/1970)	11.3% (372/3287)	<0.001
Atrial fibrillation	19.5% (1025/5243)	18.2% (358/1966)	20.4% (667/3277)	0.058
Smoking status				<0.001
Never smoked	64.8% (3318/5119)	88.7% (1694/1910)	50.6% (1624/3209)	
Previous smoker	8.3% (424/5119)	3.1% (59/1910)	11.4% (365/3209)	
Current smoker	26.9% (1377/5119)	8.2% (157/1910)	38.0% (1220/3209)	

Blood pressure

Systolic blood pressure, Mean ± SD	136.1 ± 23.4	138.7 ± 25.0	134.7 ± 22.4	0.003
Diastolic blood pressure, Mean ± SD	72.8 ± 12.9	72.3 ± 13.0	73.0 ± 12.8	0.125
NYHA classification (categorical)				<0.001
1	9.9% (509/5123)	9.1% (176/1928)	10.4% (333/3195)	
II	21.3% (1090/5123)	21.0% (405/1928)	21.4% (685/3195)	
III	13.7% (704/5123)	11.2% (215/1928)	15.3% (489/3195)	
IV	2.0% (101/5123)	1.7% (33/1928)	2.1% (68/3195)	
LVEF (%), Mean ± SD	52.0 ± 16.0	56.6 ± 14.1	49.4 ± 16.3	<0.001
CHADS₂ (categorical)				<0.001
0	15.7% (805/5126)	19.3% (370/1916)	13.6% (435/3210)	
1	28.0% (1435/5126)	27.4% (525/1916)	28.3% (910/3210)	
2	33.2% (1701/5126)	33.6% (643/1916)	33.0% (1058/3210)	
3	16.1% (825/5126)	14.4% (275/1916)	17.1% (550/3210)	

AVB: Atrioventricular block. SD: Standard deviation. BMI: Body mass index. CABG: Coronary artery bypass grafting. NYHA: New York Heart Association functional classification. LVEF: Left Ventricular Ejection Fraction.

*"young country" was defined as countries with a median population age of \leq 30 (PANORAMA 1) or \leq 35 (PANORAMA 2), based on data from the United Nations' data-portal.

** Other devices refer to: Implantable Cardioverter Defibrillator, Cardiac Resynchronization Therapy Pacemaker, and Cardiac Resynchronization

Therapy Defibrillator.

Continuous variables were compared across groups by Wilcoxon rank sum test. Categorical variables were assessed using Chi-Square test or Fisher's exact test, as appropriate.

Supplementary Table 3: Baseline characteristics stratified by region.

	Total	Western	Eastern			Latin		
Clinical Characteristics		Europe	Europe	Middle East	Asia	America	South Africa	P value
	(N = 5259)	(N=1483)	(N=1066)	(N=640)	(N=1039)	(N=615)	(N=416)	
Demographics								
Age, Mean ± SD	69.1 ± 14.8	73.5 ± 11.8	68.8 ± 14.0	62.9 ± 17.8	67.6 ± 14.0	69.8 ± 15.4	66.3 ± 17.1	<0.001
	62.5%	68.2%	64.5%	58.3%	61.8%	54.0%	58.2%	<0.001
Gender (Male)	(3288/5259)	(1011/1483)	(688/1066)	(373/640)	(642/1039)	(332/615)	(242/416)	
BMI (kg/m²), Mean ±	26.9 ± 5.1	27.3 ± 4.6	28.0 ± 4.8	28.6 ± 6.3	24.5 ± 4.1	26.1 ± 4.3	27.8 ± 5.9	<0.001
SD								\0.001
From a "young	37.6%	0% (0/1483)	0.3%	100.0%	48.2%	68.0%	100.0%	<0.001
country" *	(1978/5259)		(3/1066)	(640/640)	(501/1039)	(418/615)	(416/416)	
Device and implant								-0.001
characteristics								<0.001
Pacemaker	83.2%	78.1%	83.8%	76.5%	92.8%	91.2%	74.9%	
	(4353/5229)	(1140/1460)	(893/1066)	(489/639)	(962/1037)	(559/613)	(310/414)	

Other devices	16.8% (876/5229)	21.9%	16.2%	23.5%	7.2%	8.8%	25.1%	
(ICD/CRT) **		(320/1460)	(173/1066)	(150/639)	(75/1037)	(54/613)	(104/414)	
Single or dual								<0.001
chamber								
Single-chamber	18.0% (772/4281)	9.1%	11.6%	31.3%	17.4%	24.2%	35.5%	
		(111/1225)	(86/743)	(172/549)	(154/884)	(135/559)	(114/321)	
Dual-chamber	82.0%	90.9%	88.4%	68.7%	82.6%	75.8%	64.5%	
	(3509/4281)	(1114/1225)	(657/743)	(377/549)	(730/884)	(424/559)	(207/321)	
Implant setting								<0.001
Operating room	24.0% (804/3348)	45.8%	36.5%	2.6% (14/530)	1.3% (4/299)	23.2%	3.5%	
		(281/614)	(356/975)			(137/590)	(12/340)	
EP/cardiac	76.0%	54.2%	63.5%	97.4%	98.7%	76.8%	96.5%	
catheter lab	(2544/3348)	(333/614)	(619/975)	(516/530)	(295/299)	(453/590)	(328/340)	

Medical history

Hypertension	62.4%	62.2%	72.6%	61.8%	58.9%	59.8%	51.0%	<0.001
	(3278/5250)	(918/1477)	(774/1066)	(395/639)	(611/1037)	(368/615)	(212/416)	
Diabetes mellitus	29.2%	27.1%	26.5%	46.9%	34.4%	20.4%	15.3%	<0.001
	(1505/5158)	(392/1446)	(271/1022)	(300/639)	(355/1033)	(125/613)	(62/405)	
Dyslipidemia	34.0%	42.1%	44.9%	43.2%	18.6%	13.7%	31.3%	<0.001
	(1779/5231)	(622/1479)	(478/1064)	(276/639)	(189/1018)	(84/615)	(130/416)	
Coronary artery	26.4%	26.9%	29.9%	31.0%	31.3%	8.0%	24.3%	<0.001
disease	(1380/5218)	(394/1464)	(318/1064)	(198/638)	(320/1022)	(49/615)	(101/415)	
Prior myocardial	13.4% (702/5234)	16.7%	20.5%	12.6%	7.5%	6.7%	9.4%	<0.001
infarction		(246/1472)	(219/1066)	(80/636)	(77/1029)	(41/615)	(39/416)	
Prior CABG	8.1% (427/5257)	10.1%	8.9%	9.8% (63/640)	5.2%	2.6%	11.8%	<0.001
		(150/1481)	(95/1066)		(54/1039)	(16/615)	(49/416)	
Atrial fibrillation	19.5%	27.7%	25.3%	10.2%	11.7%	9.1%	25.5%	<0.001
	(1025/5243)	(409/1477)	(269/1065)	(65/640)	(120/1030)	(56/615)	(106/416)	
Smoking status								<0.001

Never smoked	64.8%	53.5%	63.9%	70.8%	76.5%	61.8%	70.8%	
	(3318/5119)	(736/1376)	(666/1043)	(452/638)	(795/1039)	(378/612)	(291/411)	
Previous smoker	8.3% (424/5119)	9.7%	8.8%	8.8% (56/638)	6.8%	5.7%	8.8%	
		(134/1376)	(92/1043)		(71/1039)	(35/612)	(36/411)	
Current smoker	26.9%	36.8%	27.3%	20.4%	16.7%	32.5%	20.4%	
	(1377/5119)	(506/1376)	(285/1043)	(130/638)	(173/1039)	(199/612)	(84/411)	
Blood pressure								
Systolic blood	136.1 ± 23.4	135.9 ± 23.4	137.9 ± 23.6	129.9 ± 22.5	136.9 ± 23.5	N/A***	138.2 ± 23.4	
pressure, Mean ±	ŧ							0.060
SD								
Diastolic blood	72.8 ± 12.9	72.4 ± 13.4	77.3 ± 11.7	66.4 ± 13.1	73.3 ± 12.0	N/A***	75.8 ± 12.9	
pressure, Mean ±	Ł							<0.001
SD								
NYHA classification								<0.001
(categorical)								

1	9.9% (509/5123)	10.8%	15.0%	8.6% (55/639)	3.4%	13.7%	6.8%	
		(148/1376)	(159/1060)		(35/1020)	(84/615)	(28/413)	
П	21.3%	18.8%	36.9%	13.5%	16.9%	20.0%	14.3%	
	(1090/5123)	(259/1376)	(391/1060)	(86/639)	(172/1020)	(123/615)	(59/413)	
Ш	13.7% (704/5123)	14.5%	18.8%	10.0%	15.4%	8.1%	8.5%	
		(199/1376)	(199/1060)	(64/639)	(157/1020)	(50/615)	(35/413)	
IV	2.0% (101/5123)	1.3%	2.4%	2.7% (17/639)	1.8%	1.5% (9/615)	3.4%	
		(18/1376)	(25/1060)		(18/1020)		(14/413)	
LVEF (%), Mean ± SD	52.0 ± 16.0	51.6 ± 16.3	48.9 ± 14.7	47.5 ± 16.1	57.4 ± 13.9	54.4 ± 17.1	52.8 ± 17.0	<0.001
CHADS ₂ (categorical)								<0.001
0	15.7% (805/5126)	10.1%	12.8%	20.8%	20.2%	15.7%	23.2%	
		(145/1429)	(131/1021)	(133/638)	(206/1020)	(96/613)	(94/405)	
1	28.0%	25.0%	27.3%	21.9%	29.5%	34.4%	36.3%	
	(1435/5126)	(357/1429)	(279/1021)	(140/638)	(301/1020)	(211/613)	(147/405)	

2	33.2%	34.3%	34.3%	34.8%	30.5%	34.7%	28.4%
	(1701/5126)	(490/1429)	(350/1021)	(222/638)	(311/1020)	(213/613)	(115/405)
3	16.1% (825/5126)	20.9%	17.7%	17.6%	12.4%	11.9%	8.4%
		(299/1429)	(181/1021)	(112/638)	(126/1020)	(73/613)	(34/405)
≥4	7.0% (360/5126)	9.7%	7.8%	4.9% (31/638)	7.5%	3.3%	3.7%
		(138/1429)	(80/1021)		(76/1020)	(20/613)	(15/405)

AVB: Atrioventricular block. SD: Standard deviation. BMI: Body mass index. CABG: Coronary artery bypass grafting. NYHA: New York Heart Association functional classification. LVEF: Left Ventricular Ejection Fraction.

*"young country" was defined as countries with a median population age of ≤30 (PANORAMA 1) or ≤35 (PANORAMA 2), based on data from the United Nations' data-portal.

** Other devices refer to: Implantable Cardioverter Defibrillator, Cardiac Resynchronization Therapy Pacemaker, and Cardiac Resynchronization Therapy Defibrillator.

*** Blood pressure data was not available in the Latin America data.

Continuous variables were compared across groups by Kruskal-Wallis test. Categorical variables were assessed using Chi-Square test or Fisher's exact test, as appropriate.