

**Supplemental Table 1- Cardiac Rehabilitation Availability, Volume, Capacity, Density  
(including Rank) by European Country, Geoscheme Region, and versus other High-Income Countries\***

Region	IHD incidence†	Year 1st CR program opened	Media n annual volume / progra m	Media n annual capacit y / progra m	National CR capacit y‡	CR density §	CR density rankin g
<b>Northern Europe</b>							
Denmark	23,455	1990	200	250	8,750	3	10
England	318,284	1978	490	500	133,000	2	8
Estonia	10,938	1994	150	150	300	37	31
Finland	25,677	1978	55	98	2,450	11	21
Iceland	1,570	1983	168	185	740	2	4
Ireland	16,000	1985	256	300	11,100	1	3
Latvia	14,743	1997	150	400	800	18	27
Lithuania	23,421	1977	950	1,000	25,000	1	2
Northern Ireland	8,811	1980	255	215	2,795	3	11
Norway	15,197	-	-	-	-	-	-

Scotland	30,185	1985	1,025	850	58,650	1	1
Sweden	50,475	NA	150	150	10,350	5	17
Wales	15,432	1986	490	375	6,375	2	9
<i>Mean ± SD</i>	42,630±83,6 85	1985±7	362±32 1	373±28 5	21,693± 38,694	7±11	12±10
<i>Median</i> <i>(Q25-Q75)</i>	16,000 (12,841- 27931)	1985 (1978- 1990)	228 (150- 490)	275 (159- 475)	7,563 (1,213- 21,525)	3 (1- 10)	10 (3- 20)

### Eastern Europe

Belarus	88,874	1981	300	300	1,500	59	34
Bulgaria	55,871	1958	2,200	3,000	3,000	19	28
Czech Republic	66,012	1993	65	200	3,000	22	30
Hungary	69,698	1970	440	580	19,140	4	12
Poland	237,460	1973	350	375	21,000	11	22
Moldova	21,376	2016	200	400	400	53	33
Romania	126,835	1978	1,400	2,500	7,500	17	26
Russia	1,223,642	2010	400	500	1,500	816	36
Slovak Republic	29,436	2015	50	200	1,400	21	29
<i>Mean ± SD</i>	213,245 ± 384,394	1988 ± 21	601 ± 722	895 ± 1,066	6,493 ± 7,974	114 ± 264	28±7
<i>Median</i>	69,698(42,6)	1981 (1972-	350	400	3,000	21 (14-)	29 (24-

(Q25-Q75)	54-182,148)	2013)	(133-920)	(250-1,540)	(1,450-13,320)	56)	34)
-----------	-------------	-------	-----------	-------------	----------------	-----	-----

### Southern Europe

Bosnia and Herzegovina	19,068	1959	800	2,000	2,000	10	20
Croatia	26,066	1957	940	940	2,820	9	19
Greece	61,036	1993	20	100	400	153	35
Italy	359,226	1974	350	355	78,455	5	15
Republic of Northern Macedonia	8,285	-	-	-	-	-	-
Malta	1,958	2012	300	900	900	2	5
Montenegro	3,049	-	-	-	-	-	-
Portugal	35,884	1988	75	100	2,300	16	24
Serbia	40,265	1968	1,345	1,570	3,140	13	23
Slovenia	11,135	1995	100	150	300	37	32
Spain	175,537	1993	120	120	10,440	17	25
<i>Mean ± SD</i>	67,410 ± 108,515	1982 ± 19	450 ± 468	693 ± 709	11,195 ± 25,408	29 ± 48	22 ± 9
<i>Median</i>	26,066	1988 (1964-	300	355	2,300	13 (7-	23 (17-

$(Q25-Q75)$	(8,285- 61,036)	1994)	(88- 870)	(110- 1,255)	(650- 6,790)	27)	29)
<b>Western Europe</b>							
Austria	32,901	1962	750	200	5,200	6	18
Belgium	66,985	1977	275	300	14,400	5	16
France	259,251	1984	475	485	63,050	4	14
Germany	385,474	1950	800	825	99,000	4	13
Luxembourg	1,683	-	-	-	-	-	-
Netherlands	88,550	1974	555	450	40,500	2	6
Switzerland	29,546	1997	255	255	13,005	2	7
<i>Mean ± SD</i>	123,484 ± 143,381	1974 ± 16	518 ± 230	419 ± 228	39,193 ± 36,342	4 ± 2	12±5
<i>Median</i> $(Q25-Q75)$	66,985 (29,546- 259,251)	1976 (1959- 1987)	515 (270- 763)	375 (241- 570)	27,450 (11,054- 72,038)	4 (2-5)	14 (7- 17)
<i>Europe</i> <i>Mean ± SD</i>	101,982 ± 207,600	1983 ± 17	470 ± 224	591 ± 224	18,185 ± 36,115	39 ± 1	-
<i>Europe</i> <i>Median</i>	29,866 (15,256-	1983 (1974- 1993)	300 (150-	365 (200-	4,170 (1,500-	7 (2- 19)	-

(Q25-Q75)	83,837		701)	764)	17,955)		
<b>Other HICs*</b>	381,571	1967	213	214	166,884	2	--

†Incidence of IHD was obtained from Global Burden of Disease study(45)

‡National CR capacity calculated using median number of patients a program could serve per year (from survey) multiplied by the number of programs in the country (ascertained from national champions). Value represents the number of patients who could receive CR in a year (i.e., CR spots).

§CR density refers to the number of incident IHD cases per year per CR spot (i.e, national CR capacity).

||Ranking based on density, or ratio of need (i.e., IHD incidence) to supply (i.e., national CR capacity). Lower numbers reflect more CR spots per IHD patient (i.e., of 37 European countries where CR and sufficient information are available such that 1 represents the most spots per IHD patient and 36 is the least spots per patient).

\*United States, Canada, Australia and New Zealand. Mean values reported per country (except year first program). Country-level values shown in Turk-Adawi et al.<sup>44</sup> (under review)

CR= Cardiac Rehabilitation

HIC=High-Income Country

IHD= Ischaemic Heart Disease

-not applicable