

UNSCEAR SURVEY RT tables

14 February 2020

Table 1. Number of patients treated per 100,000 population as recorded in this survey. Values marked in yellow are exceptional compared with other countries and are to be checked

Country	Brachytherapy patients per 100,000 population	External beam patients per 100,000 population
Argentina	3.8	52.0
Australia	11.6	263.7
Bangladesh	0.1	0.3
Belarus	28.1	153.0
Belgium	18.0	309.7
Brazil	6.1	122.1
Brunei Darussalam	0.0	60.3
Bulgaria	5.6	241.6
Canada	13.5	263.5
Chile	4.7	72546.2
China		66.0
Cyprus	10.0	150.5
Czech Republic	9.3	160.7
Denmark	4.6	362.2
Estonia	11.6	163.6
Finland	3.7	296.1
France	9.9	239.2
Germany		437.2
Hungary	25.7	175.2
Iceland	4.4	236.4
Indonesia	0.0	0.03
Iran (Islamic Republic of)	5.2	78.5
Iraq	0.0	8.9
Italy	16.5	363.1
Japan	10.9	142.9
Lebanon	2.9	89.8
Lithuania	21.7	181.0
Luxembourg	5.7	244.8
Madagascar	0.0	0.6
Montenegro	12.7	183.2
Norway	5.1	245.1
Pakistan	1.4	5.3
Philippines	1.3	33.2
Poland	28.1	196.4
Romania	8.1	158.8
Russian Federation	10.6	289.9
Saudi Arabia	2.4	25.2
Spain	19.4	243.0
Sweden	16.5	235.0
Switzerland	23.8	368.2
Thailand	25.2	63.4

<i>Country</i>	<i>Brachytherapy patients per 100,000 population</i>	<i>External beam patients per 100,000 population</i>
Ukraine	0.4	12.8
United Arab Emirates	0.7	11.0
United Kingdom of Great Britain and Northern Ireland	8.6	222.9
United States of America	10.4	308.5

For Data Checking Only

Table 2. Physicians per 100,000 population as recorded in this survey. Values marked in yellow are exceptional compared with other countries and are to be checked

<i>Country</i>	<i>All Physicians</i>	<i>General Practitioners</i>	<i>Radiation Oncologists</i>
Argentina	388.86		0.51
Australia	347.48	108.24	1.52
Bangladesh	47.20		0.03
Belarus	481.84	481.84	1.44
Belgium	392.75	136.37	1.61
Brazil	216.96	19.99	0.39
Brunei Darussalam			0.24
Bulgaria	412.91		0.82
Canada	226.54		1.53
Chile	0.22		0.49
China	217.88	13.52	1.14
Cyprus	309.32		1.89
Czech Republic	393.24	49.15	1.48
Denmark	403.51	78.95	3.86
Estonia	346.48	69.84	1.97
Finland	493.44	32.20	0.84
France	333.68	154.86	1.26
Germany	369.47		1.42
Greece	628.52	22.45	1.81
Hungary	309.00	65.30	0.40
Iceland	401.66		0.59
Indonesia	81.34	1.26	0.03
Iran (Islamic Republic of)	109.97		0.20
Iraq	1.97		0.09
Italy	654.70	74.61	1.45
Japan	244.88		0.93
Lebanon	285.83	285.56	0.27
Lithuania	442.47	72.94	0.90
Luxembourg	316.73	94.96	1.10

<i>Country</i>	<i>All Physicians</i>	<i>General Practitioners</i>	<i>Radiation Oncologists</i>
Norway	4.27		2.59
Pakistan	94.64		0.07
Philippines	128.71		0.20
Poland	371.63	29.21	2.04
Romania	275.42	83.26	0.78
Russian Federation	371.65	47.86	0.12
Saudi Arabia			0.19
Spain	241.39		1.51
Sudan	10.55		0.05
Sweden	450.00		5.20
Switzerland	429.65	98.65	1.43
Thailand	87.37	33.70	0.23
United Arab Emirates	204.20	0.02	0.10
United Kingdom of Great Britain and Northern Ireland	59.03	56.98	2.05
United States of America	266.54	34.46	1.50

Table 3. Radiotherapy centres as reported in this survey and by DIRAC

<i>Country</i>	<i>Radiotherapy Centers (This survey)</i>	<i>Radiotherapy Centers (DIRAC)</i>
Argentina	154	81
Armenia	2	2
Australia	76	98
Bangladesh	12	17
Belarus	18	12
Belgium	37	36
Brazil	259	213
Brunei Darussalam	1	1
Bulgaria	17	18
Canada	51	51
Chile	20	26
China	1.413	1.075
Cyprus	1	2
Czech Republic	63	30
Denmark	7	8
Estonia	2	2
Finland	13	13
France	172	179
Germany	360	286
Greece	32	27
Hungary	12	13
Iceland	1	1
Indonesia	33	35
Iran (Islamic Republic of)	44	79
Iraq	12	11
Italy	193	191
Japan	799	766
Lebanon	12	13
Lithuania	4	5
Luxembourg	1	1
Madagascar	1	1
Montenegro	1	1
Norway	9	10
Pakistan	29	26
Philippines	36	36
Poland	44	41
Romania	21	25
Russian Federation	65	140
Saudi Arabia	13	14
Spain	149	127
Sudan	3	3
Sweden	17	18
Switzerland	35	36
Thailand	35	33
Turkey		132
Ukraine	51	51
United Arab Emirates	4	3

<i>Country</i>	<i>Radiotherapy Centers (This survey)</i>	<i>Radiotherapy Centers (DIRAC)</i>
United Kingdom of Great Britain and Northern Ireland	59	70
United States of America	2.270	2.153

For Data Checking Only

Table 4. Radiotherapy systems per 100,000 population by country as recorded in this survey

<i>Country</i>	<i>Linear accelerators</i>	<i>Total Treatment Systems</i>
Argentina	0.25	0.39
Armenia	0.03	0.10
Australia	0.76	1.02
Bangladesh	0.01	0.02
Belarus	0.15	0.55
Belgium	0.85	1.09
Brazil	0.18	0.27
Brunei Darussalam	0.47	0.71
Bulgaria	0.41	0.75
Canada	0.76	0.78
Chile	0.21	0.32
China	0.14	0.19
Cyprus	0.32	0.53
Czech Republic	0.44	1.06
Denmark	0.93	1.21
Estonia	0.45	0.61
Finland	0.82	1.02
France	0.64	0.76
Germany	0.74	0.74
Greece	0.35	0.59
Hungary	0.27	0.64
Iceland	0.59	0.59
Indonesia	0.02	0.03
Iran (Islamic Republic of)	0.03	0.08
Iraq	0.08	0.08
Italy	0.71	0.89
Japan	0.68	0.96
Lebanon	0.33	0.42
Lithuania	0.42	0.73
Luxembourg	0.73	1.10
Madagascar	0.01	0.01
Montenegro	0.17	0.50
Norway	0.81	0.93
Pakistan	0.01	0.03
Philippines	0.04	0.07
Poland	0.42	0.57
Romania	0.12	0.30
Russian Federation	0.14	0.63
Saudi Arabia	0.09	0.09
Spain	0.53	0.74
Sudan	0.01	0.04

<i>Country</i>	<i>Linear accelerators</i>	<i>Total Treatment Systems</i>
Sweden	0.73	0.97
Switzerland	0.84	1.75
Thailand	0.11	0.19
Turkey	0.27	0.39
Ukraine	0.05	0.23
United Arab Emirates	0.08	0.12
United Kingdom of Great Britain and Northern Ireland	0.45	0.45
United States of America	1.11	1.11

Table 5. The number of medical physicists by country reported in this survey

<i>Country name</i>	<i>UNSCEAR Survey (radiotherapy only)</i>
Argentina	133
Australia	450
Belarus	88
Belgium	145
Brazil	303
Brunei Darussalam	4
Bulgaria	68
Canada	500
China	3 294
Cyprus	6
Czech Republic	89
Denmark	82
Estonia	13
Finland	47
France	556
Greece	86
Hungary	64
Indonesia	58
Italy	600
Japan	388
Lebanon	19
Lithuania	12
Luxembourg	5
Norway	74
Philippines	60
Poland	425
Romania	48
Russian Federation	270
Spain	513
Sudan	12
Sweden	148
Switzerland	80
Thailand	134
United Arab Emirates	12
United Kingdom of Great Britain and Northern Ireland	698
United States of America	3 405