

Appendix table 5-35

S&E articles in medical sciences, by region/country/economy: 1997–2011

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
World	144,819.0	148,378.0	149,672.0	154,835.0	152,922.0	153,483.0	158,517.0	162,593.0	167,524.0	171,808.0	174,390.0	178,435.0	179,051.0	180,734.0	182,772.0
North America															
Canada	5,620.8	5,610.5	5,925.7	5,882.5	5,666.5	5,714.4	6,104.9	6,179.5	6,579.4	6,807.3	6,984.0	7,257.0	7,356.3	7,394.2	7,359.4
Mexico	327.7	390.8	476.5	508.3	478.1	495.5	487.8	528.0	496.7	570.1	548.4	591.0	545.9	576.7	522.9
United States	52,196.9	52,146.9	52,106.6	53,042.3	52,592.2	52,894.8	54,935.8	56,160.9	57,221.3	57,876.8	58,323.1	59,731.0	58,675.4	59,222.9	60,071.3
Central America/Caribbean															
Antigua and Barbuda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0	0.1	0.0
Bahamas	0.0	0.0	0.0	0.3	0.3	0.5	1.0	0.0	0.2	0.1	0.3	0.3	0.7	0.1	0.4
Barbados	3.7	0.3	2.9	1.7	1.7	2.3	3.9	9.3	5.2	6.1	6.1	4.3	4.3	2.6	2.6
Belize	1.2	0.6	0.7	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.7	0.0
Costa Rica	5.6	7.7	10.1	6.0	12.4	14.6	11.2	13.2	16.2	17.3	16.7	19.7	21.1	19.3	14.5
Cuba	21.5	33.1	40.2	34.8	35.9	23.2	39.1	39.4	28.8	41.4	34.1	48.5	40.0	39.6	46.9
Dominica	0.0	1.5	0.0	0.1	2.0	0.7	1.0	2.0	0.0	0.9	0.3	0.0	0.3	0.8	0.5
Dominican Republic	1.6	2.5	3.2	3.5	2.5	1.9	1.7	3.9	3.6	3.8	4.0	2.2	3.5	3.0	3.6
El Salvador	0.0	0.0	1.1	2.8	2.6	3.5	0.7	1.6	2.2	0.7	1.0	0.8	1.3	2.0	5.1
Grenada	0.0	0.0	0.9	0.3	0.0	0.0	0.6	0.6	1.2	1.7	1.5	4.3	4.6	5.5	7.7
Guatemala	4.6	3.6	6.7	3.0	5.3	5.1	7.8	2.9	10.1	10.3	8.9	5.5	8.5	8.7	10.0
Haiti	1.5	1.9	0.3	3.1	2.3	3.5	1.2	3.9	2.9	4.6	3.2	2.6	2.9	2.8	9.5
Honduras	2.6	4.2	5.1	1.3	1.8	1.3	2.2	2.4	3.9	1.8	3.7	2.6	2.9	3.3	2.8
Jamaica	13.1	11.7	14.1	5.2	18.9	9.1	8.8	12.5	15.7	7.7	14.9	10.3	15.0	16.2	15.7
Nicaragua	3.5	2.2	2.6	5.1	2.0	4.5	2.2	2.8	2.8	8.5	2.1	4.4	6.0	4.2	4.5
Panama	1.6	2.9	2.9	3.6	5.5	3.6	2.8	5.8	6.6	5.6	7.3	8.5	6.2	5.0	7.5
St. Kitts and Nevis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.3	0.6	0.2
St. Lucia	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.1	0.0
St. Vincent	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trinidad and Tobago	8.3	10.5	13.6	11.6	12.2	13.3	15.6	10.5	8.4	14.7	18.7	13.9	14.4	11.7	16.1
West Indies Associated States	0.5	0.0	2.4	3.1	0.7	3.6	4.8	0.3	2.7	1.8	2.9	3.3	6.2	2.8	3.0
South America															
Argentina	465.0	463.9	526.5	564.7	547.7	572.5	461.4	505.4	479.1	500.5	494.8	474.4	542.1	558.0	580.2
Bolivia	9.1	9.7	13.0	5.0	8.6	7.2	4.5	5.8	5.3	7.0	10.0	11.7	8.8	6.7	6.0
Brazil	793.7	932.9	996.9	1,170.8	1,259.3	1,443.9	1,658.5	1,858.0	2,122.7	2,494.1	2,996.0	3,352.9	3,130.5	3,287.4	3,265.2
Chile	271.3	287.6	302.9	312.1	301.6	306.4	328.6	321.0	358.4	386.6	368.7	371.7	403.3	390.3	397.4
Colombia	32.2	49.7	48.2	57.3	65.5	72.1	57.6	60.7	79.3	73.8	101.5	101.0	105.8	104.1	131.1
Ecuador	19.7	9.8	10.9	10.6	6.5	12.6	14.5	14.5	10.5	9.7	14.4	14.0	12.7	18.9	9.8
Guyana	1.0	0.0	1.9	1.3	0.5	1.1	0.3	0.0	1.1	2.6	1.0	0.8	0.2	3.9	1.5
Paraguay	2.1	3.5	1.8	2.1	1.8	3.2	1.7	3.5	2.0	1.6	6.5	1.7	4.5	4.1	1.3
Peru	23.1	22.5	24.1	27.2	24.0	25.9	31.1	32.2	40.5	46.9	37.7	54.3	49.3	46.0	50.8
Suriname	0.0	0.8	0.8	1.0	1.0	1.6	2.0	0.4	0.9	0.0	0.5	0.8	0.3	1.0	0.4
Uruguay	41.3	39.5	34.3	43.3	23.3	31.8	29.4	30.9	38.3	32.5	30.7	47.0	30.7	34.7	51.3
Venezuela	68.6	71.2	71.7	79.5	79.2	77.6	81.1	76.4	79.9	77.3	65.4	54.6	54.1	42.8	43.1

Appendix table 5-35

S&E articles in medical sciences, by region/country/economy: 1997–2011

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Europe															
European Union															
Austria	1,437.3	1,611.9	1,556.2	1,693.9	1,638.6	1,709.6	1,755.6	1,657.2	1,604.8	1,574.9	1,596.2	1,500.0	1,480.1	1,388.3	1,515.6
Belgium	1,560.6	1,738.2	1,602.3	1,632.3	1,627.5	1,623.4	1,664.9	1,682.8	1,673.1	1,763.1	1,805.2	1,821.9	1,845.0	1,842.7	1,776.3
Bulgaria	67.1	90.8	63.8	69.2	76.5	63.3	65.4	76.4	81.1	75.0	72.1	88.6	70.0	67.3	57.8
Cyprus	5.1	8.5	2.6	9.3	8.6	12.7	12.8	9.8	11.8	16.6	8.7	10.7	21.2	21.0	22.2
Czech Republic	227.6	213.6	211.4	275.3	289.9	281.6	334.3	348.3	380.2	471.8	484.1	489.8	480.0	522.5	466.5
Denmark	1,521.1	1,509.7	1,574.2	1,504.7	1,466.0	1,453.7	1,565.9	1,547.0	1,608.5	1,655.1	1,713.9	1,728.8	1,746.1	1,873.0	2,054.3
Estonia	31.2	47.0	42.6	40.9	45.1	33.9	45.6	45.9	48.1	57.2	63.4	60.0	65.7	75.7	65.4
Finland	1,753.4	1,577.1	1,715.7	1,733.6	1,650.5	1,601.0	1,563.6	1,587.6	1,526.8	1,552.1	1,462.1	1,474.8	1,407.8	1,405.6	1,314.8
France	6,664.7	7,143.4	6,894.6	6,967.0	6,747.5	6,572.4	6,611.7	5,953.3	6,201.6	6,157.0	6,078.3	6,153.7	6,100.5	6,062.0	6,003.8
Germany	10,377.3	10,855.2	11,102.7	11,805.5	11,558.7	11,588.3	11,552.1	11,728.3	11,903.7	12,033.9	11,890.6	11,743.8	11,779.3	11,575.7	11,395.4
Greece	645.8	700.1	699.6	790.8	900.6	886.0	1,012.3	1,150.4	1,325.3	1,431.0	1,462.9	1,402.8	1,369.8	1,323.9	1,233.3
Hungary	333.4	391.6	377.5	479.2	550.8	458.4	502.6	491.6	541.7	535.2	506.5	532.4	499.3	473.2	423.1
Ireland	426.7	398.2	368.2	433.9	428.5	418.5	442.8	506.7	470.6	546.7	559.4	605.1	613.9	660.3	672.0
Italy	5,924.7	6,180.6	6,081.7	6,305.4	6,655.2	6,482.0	6,989.2	7,122.2	7,161.0	7,560.4	7,635.9	7,684.7	7,704.9	7,543.4	7,317.1
Latvia	5.4	7.3	7.6	8.2	11.7	7.8	5.8	7.7	8.4	7.5	11.5	12.0	9.9	12.7	17.5
Lithuania	12.0	17.1	19.8	27.7	17.3	20.4	24.2	31.8	38.4	45.7	36.5	39.9	36.1	34.9	43.3
Luxembourg	15.4	5.8	6.8	15.5	12.0	14.1	5.4	11.6	15.3	10.5	19.2	17.2	25.6	22.9	20.5
Malta	7.8	6.6	12.1	9.0	8.2	5.8	10.4	6.3	7.8	3.7	6.4	12.6	8.9	6.5	12.3
Netherlands	4,093.0	4,129.2	3,953.0	4,062.1	3,961.4	4,044.7	4,300.9	4,561.8	4,880.0	5,110.2	5,126.3	5,227.7	5,376.7	5,580.3	5,554.8
Poland	441.8	477.7	504.2	528.8	596.3	638.2	682.8	704.6	768.9	859.3	846.2	824.9	904.4	927.4	913.8
Portugal	179.8	166.7	222.5	178.7	189.5	208.0	215.0	262.6	264.1	318.8	311.7	391.4	444.3	480.0	509.7
Romania	31.4	27.1	22.8	34.4	25.7	24.0	18.5	35.7	30.7	49.1	70.9	55.2	87.1	122.4	101.9
Slovakia	112.6	107.5	115.7	108.3	99.7	76.8	97.3	101.6	103.2	121.5	98.6	103.7	141.6	122.7	104.0
Slovenia	91.4	91.1	104.9	155.2	146.6	135.8	154.1	168.0	149.8	201.0	146.3	206.0	186.9	168.4	175.6
Spain	2,761.8	3,051.3	2,989.7	3,260.1	3,088.9	3,144.1	3,086.1	3,271.3	3,485.7	3,693.5	3,823.6	4,047.0	3,903.5	4,160.9	4,224.5
Sweden	3,510.4	3,390.8	3,365.1	3,302.6	3,200.7	3,127.5	3,033.0	2,947.2	3,163.9	3,059.1	3,059.4	2,892.4	2,959.3	2,827.9	2,835.9
United Kingdom	13,409.6	13,312.1	13,694.8	13,994.2	13,474.8	13,046.6	13,113.7	13,415.5	13,381.0	13,297.2	13,198.4	12,777.4	12,519.8	12,324.2	12,281.8
Other Europe															
Albania	4.8	1.6	3.0	0.0	0.9	2.3	2.0	2.4	1.3	2.1	1.6	3.8	1.3	4.4	3.7
Andorra	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.3	0.6	2.2	0.1	0.0	0.1	0.0
Belarus	14.9	11.8	15.9	25.3	16.2	15.5	13.2	20.5	19.7	20.6	15.1	21.0	16.2	8.0	19.1
Bosnia and Herzegovina	1.3	1.0	3.7	0.5	4.8	2.3	6.2	1.8	3.3	4.1	20.7	10.9	14.6	7.6	6.9
Croatia	115.1	114.9	120.7	126.1	131.7	132.9	135.6	155.1	141.7	162.1	180.2	199.9	164.3	200.2	192.2
Iceland	45.8	57.1	46.8	41.9	51.4	59.5	57.1	50.3	57.4	71.2	55.3	49.4	64.3	75.1	48.5
Kosovo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liechtenstein	0.0	0.1	1.5	0.0	0.0	0.0	1.0	0.2	4.8	3.8	3.0	7.3	3.1	4.2	2.4
Macedonia	5.7	2.4	5.1	7.2	8.2	8.7	10.7	4.5	4.7	5.8	6.8	4.8	10.1	5.7	9.5
Moldova	0.5	0.0	4.5	0.3	0.2	0.7	3.2	2.3	4.7	2.1	1.0	3.1	1.1	2.2	0.7
Monaco	2.9	3.3	0.8	1.4	3.6	2.8	7.1	7.1	5.8	4.5	2.3	4.6	5.9	6.3	5.5
Montenegro	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.6	0.3	0.9	2.3	1.8	0.0

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Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Norway	905.3	937.1	937.6	954.2	926.2	870.4	901.4	935.3	1,084.8	1,070.2	1,106.1	1,231.8	1,271.7	1,286.6	1,283.2
Russia	644.9	594.6	522.9	541.6	505.7	517.5	491.4	472.6	566.3	528.5	576.4	568.8	582.1	422.5	526.7
San Marino	0.8	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.5
Serbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	65.6	157.8	178.3	191.6	193.3	194.0
Serbia and Montenegro	NA	NA	NA	NA	NA	NA	NA	NA	121.4	64.2	NA	NA	NA	NA	NA
Switzerland	2,188.7	2,280.6	2,281.5	2,510.6	2,188.9	2,174.6	2,160.3	2,342.4	2,364.8	2,534.3	2,541.3	2,542.5	2,600.8	2,591.5	2,596.7
Ukraine	73.3	72.2	76.8	57.9	73.8	61.1	56.1	59.1	54.9	40.1	29.3	35.1	32.8	31.1	41.6
Vatican City	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Yugoslavia	92.2	85.3	84.1	57.8	79.4	63.7	76.9	108.9	NA	NA	NA	NA	NA	NA	NA
Middle East															
Bahrain	7.2	5.5	5.3	4.0	3.6	2.7	2.8	2.1	5.3	7.8	7.3	6.6	7.1	7.1	9.6
Iran	47.6	68.0	74.4	103.4	121.5	159.2	179.7	205.7	291.0	459.2	618.7	671.2	714.3	746.9	743.1
Iraq	9.2	3.0	6.0	4.2	8.0	3.7	5.3	3.3	8.2	20.7	17.2	22.8	17.0	19.6	23.1
Israel	1,719.9	1,642.5	1,649.9	1,736.3	1,755.9	1,759.9	1,847.0	1,873.0	1,836.7	1,817.4	1,763.9	1,591.5	1,601.6	1,513.9	1,439.4
Jordan	39.5	45.8	49.5	41.7	33.6	38.6	41.3	45.3	50.6	52.1	59.1	71.0	66.9	75.4	67.6
Kuwait	45.2	50.4	66.7	55.3	63.9	61.9	70.7	58.3	54.8	63.4	56.1	51.0	45.0	42.9	45.9
Lebanon	36.6	36.9	58.5	55.7	69.3	60.2	79.3	69.7	94.1	114.2	100.5	123.4	99.4	102.3	89.4
Oman	20.2	21.8	29.3	28.9	35.5	29.3	21.1	19.1	20.8	21.1	24.8	23.1	23.0	19.6	30.6
Qatar	5.0	10.0	6.5	5.2	6.5	2.8	5.9	17.2	15.3	13.5	14.0	16.4	17.2	30.7	21.6
Saudi Arabia	238.9	251.5	213.9	203.9	177.8	167.0	131.2	136.0	171.9	140.5	143.9	168.6	152.7	211.3	235.8
Syria	7.0	4.0	15.2	4.3	11.8	5.5	9.2	10.7	9.1	6.3	11.6	11.8	14.9	8.9	16.1
Turkey	951.4	1,073.5	1,294.3	1,417.6	1,663.8	2,094.4	2,366.5	2,807.0	3,157.8	3,005.8	3,026.5	2,804.7	2,599.7	2,356.7	2,379.7
United Arab Emirates	59.6	76.4	46.4	49.7	61.3	37.0	36.3	41.5	41.1	46.9	39.1	50.1	45.6	50.2	63.8
Yemen	1.6	2.5	2.5	0.3	1.3	2.3	0.9	6.0	0.9	5.1	2.4	3.1	7.1	3.2	4.4
Africa															
Algeria	4.9	9.5	9.7	8.9	8.0	6.5	8.9	8.6	4.9	11.7	12.7	12.4	20.8	15.8	17.9
Angola	1.0	0.0	0.5	1.1	0.5	1.5	0.1	1.0	0.9	0.9	0.5	1.4	2.4	1.7	2.5
Benin	1.7	4.8	4.6	1.3	3.8	4.0	3.6	3.5	5.9	5.6	10.0	8.8	7.5	7.3	9.9
Botswana	4.6	8.4	6.7	11.1	6.5	6.0	8.4	5.7	3.9	6.8	5.1	5.1	8.0	4.2	10.4
Burkina Faso	7.9	9.3	8.1	8.2	8.4	10.5	9.8	12.0	8.9	16.2	14.0	19.1	9.3	14.0	11.8
Burundi	7.8	0.8	0.5	0.2	0.0	0.8	1.2	1.1	0.6	0.3	0.8	0.4	0.3	0.3	0.2
Cameroon	19.5	19.8	17.9	15.1	19.4	27.2	23.0	24.3	20.4	25.2	26.1	20.1	27.7	26.9	26.8
Cape Verde	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0
Central African Republic	3.4	4.8	1.0	1.5	0.9	2.5	1.0	1.8	3.3	3.1	0.2	2.8	0.8	1.3	0.8
Chad	1.5	1.7	1.6	1.0	0.0	2.3	2.3	1.0	2.1	2.8	0.3	1.1	0.5	0.8	0.3
Comoros	0.0	0.0	1.0	0.5	0.1	0.0	0.0	0.3	0.0	0.0	0.9	0.3	0.5	0.2	0.0
Congo (Brazzaville)	0.0	5.5	3.2	2.9	1.0	3.3	6.0	4.0	5.1	6.7	8.2	4.9	4.1	5.6	4.3
Congo (Kinshasa)	8.2	2.7	1.2	2.4	1.2	1.2	3.1	2.9	2.1	2.6	4.9	4.6	6.3	4.5	6.4
Côte d'Ivoire	14.5	13.4	12.5	13.3	8.9	7.7	8.2	9.9	6.8	8.3	5.3	6.8	8.8	9.4	8.8
Djibouti	0.0	0.4	0.0	0.0	0.0	0.5	0.5	0.0	0.5	0.1	0.0	0.0	0.5	0.6	0.7
Egypt	199.0	187.6	212.7	191.3	216.2	192.7	236.1	236.9	243.2	263.1	277.6	330.7	384.2	530.8	541.9
Equatorial Guinea	0.3	0.0	2.2	0.3	0.7	0.3	0.3	0.8	0.0	0.5	0.7	0.0	1.3	0.0	0.6

S&E articles in medical sciences, by region/country/economy: 1997–2011

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Eritrea	0.0	0.7	0.0	0.3	0.5	0.4	1.7	1.0	1.4	1.3	4.6	1.4	0.5	1.1	1.0
Ethiopia	37.4	26.8	54.2	48.9	28.5	29.5	19.5	40.2	25.1	33.5	40.0	48.7	60.1	75.3	54.2
Gabon	9.8	7.1	6.2	6.3	4.3	4.3	5.9	3.5	4.2	4.2	4.1	2.9	1.6	5.7	7.4
Gambia	14.6	9.9	12.1	15.4	17.3	11.0	11.2	12.8	12.8	10.5	7.3	7.3	6.3	7.8	6.5
Ghana	32.6	26.5	20.4	33.7	25.3	24.9	19.7	28.8	27.1	27.3	27.1	18.9	25.2	31.0	33.0
Guinea	1.1	0.0	0.3	0.5	1.8	2.0	0.3	1.2	1.7	5.7	2.8	0.2	1.1	2.1	0.9
Guinea-Bissau	1.9	0.4	4.3	2.0	0.5	3.8	4.8	2.8	1.5	2.6	6.3	2.2	2.8	0.7	2.6
Kenya	120.0	116.3	102.0	87.1	52.6	48.6	59.5	72.0	52.5	53.4	60.3	62.9	69.3	81.4	85.2
Lesotho	0.3	0.3	0.3	0.5	0.2	0.1	0.3	0.0	0.0	0.5	0.6	0.6	0.1	1.4	0.6
Liberia	0.0	1.3	0.0	0.0	0.8	0.7	0.0	0.3	0.3	0.0	0.0	0.1	0.0	1.1	0.3
Libya	4.4	4.9	4.2	5.2	4.1	4.7	5.4	1.5	1.6	6.2	3.4	4.9	10.8	5.8	4.8
Madagascar	4.6	2.8	3.5	4.3	7.8	6.3	6.8	3.7	3.5	4.8	12.4	9.8	5.6	6.1	4.7
Malawi	19.7	13.3	18.8	26.5	25.2	24.9	20.9	23.7	21.6	19.9	25.0	19.1	22.6	24.7	25.9
Mali	7.4	7.6	4.2	2.8	3.0	5.7	4.7	5.0	7.2	7.9	8.2	4.9	6.9	6.7	11.6
Mauritania	1.0	0.0	0.4	0.7	3.9	2.6	2.3	0.8	1.3	1.2	0.7	0.0	0.1	0.2	1.4
Mauritius	1.3	1.1	1.2	0.9	1.9	0.3	1.7	1.2	1.2	0.6	0.7	0.7	0.8	1.6	0.8
Morocco	33.9	30.0	45.6	50.1	42.4	45.7	49.3	46.0	50.0	68.1	59.7	65.4	65.7	52.9	53.6
Mozambique	6.0	2.2	4.6	2.3	4.8	3.2	2.9	5.2	5.2	6.8	8.8	10.6	10.3	5.4	15.7
Namibia	1.1	4.3	1.5	0.3	0.3	2.4	3.0	0.8	0.7	1.7	0.8	1.1	0.6	1.6	1.7
Niger	3.2	5.6	3.2	5.0	1.3	0.8	3.9	3.3	5.6	3.8	5.3	3.0	2.5	1.6	2.6
Nigeria	146.8	126.5	118.0	120.7	70.5	75.4	72.2	88.6	104.3	108.6	109.4	125.5	143.8	120.8	126.8
Rwanda	1.8	3.2	1.6	1.0	0.7	1.2	0.7	2.3	1.6	5.9	6.8	3.6	4.6	3.6	7.3
São Tomé and Príncipe	0.0	0.3	0.0	0.5	0.3	0.5	0.3	0.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Senegal	17.4	23.0	24.8	24.5	14.6	11.1	16.8	11.4	16.3	12.3	17.1	12.1	13.3	9.9	20.2
Senegambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seychelles	0.2	1.0	1.4	2.5	0.1	0.7	0.3	0.5	0.6	0.5	0.8	0.5	0.6	0.3	2.4
Sierra Leone	7.7	0.5	0.0	0.8	1.6	0.2	0.0	0.5	0.8	0.6	0.1	0.3	1.9	3.4	1.6
Somalia	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.3	0.0	0.7	0.0	0.0	0.7	0.2	0.0
South Africa	523.6	497.2	528.2	456.3	450.7	430.2	418.0	403.5	422.8	457.5	492.3	517.8	520.7	504.6	541.3
Sudan	16.8	20.9	13.0	10.0	13.0	17.7	15.4	14.7	20.8	11.4	11.5	17.9	25.6	23.8	18.5
Swaziland	0.0	0.0	0.0	0.0	0.8	0.1	0.8	0.7	0.3	0.0	0.2	0.9	0.8	0.9	0.8
Tanzania	45.3	36.6	32.0	45.4	41.9	32.9	30.0	36.6	33.5	45.6	40.7	34.0	57.0	50.5	49.8
Togo	1.3	4.4	5.2	8.7	7.2	2.4	0.9	1.6	3.5	1.5	5.2	3.1	2.7	2.5	0.9
Tunisia	44.6	36.8	38.7	45.8	67.6	42.2	85.1	66.3	90.1	111.1	108.7	136.2	145.5	126.4	116.7
Uganda	21.3	26.8	31.5	33.4	25.5	32.1	24.2	28.5	33.7	45.3	42.7	35.7	47.7	46.9	62.4
Zambia	11.7	13.5	10.8	10.9	9.9	11.7	6.1	9.7	10.2	13.7	15.3	14.1	16.5	18.8	26.7
Zimbabwe	36.4	31.1	26.8	32.4	26.0	16.8	19.9	22.3	18.7	19.2	19.4	14.4	12.9	14.4	15.8
Asia															
Afghanistan	0.0	0.2	0.0	0.0	0.0	0.0	0.7	2.8	1.8	1.3	2.3	3.7	4.7	3.9	2.7
Armenia	5.2	3.5	6.3	8.5	11.5	6.7	5.9	9.3	6.7	7.3	5.9	6.9	4.9	11.7	7.4
Azerbaijan	1.3	2.7	3.8	2.9	0.7	1.1	1.2	0.3	0.1	4.1	0.3	3.7	0.3	0.4	3.2
Bangladesh	28.9	24.4	25.8	24.8	36.6	22.0	24.5	27.6	27.1	33.8	36.1	43.9	40.6	38.0	46.1

Appendix table 5-35

S&E articles in medical sciences, by region/country/economy: 1997–2011

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Bhutan	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.5	0.0	0.0	1.4	0.7	3.8
Brunei	2.1	2.3	4.5	2.0	0.0	1.0	3.0	2.4	1.2	3.8	1.8	3.6	1.4	2.4	1.3
Burma	3.2	1.0	5.5	1.7	2.5	2.6	0.8	3.8	1.6	7.3	3.6	4.1	3.2	2.7	1.0
Cambodia	1.2	0.6	2.9	2.3	1.3	6.6	2.3	10.7	7.5	10.5	10.4	7.9	9.5	6.0	13.5
China	1,164.1	1,326.2	1,359.2	1,570.5	1,753.1	2,049.6	2,402.5	2,814.4	3,194.3	3,970.2	4,771.0	5,992.1	7,430.4	8,491.5	9,525.9
Georgia	4.0	8.6	10.1	4.3	9.4	13.4	6.2	22.3	19.9	21.0	8.9	7.4	7.3	10.0	10.1
India	1,018.7	1,133.0	1,112.6	1,219.5	1,181.0	1,275.8	1,381.9	1,407.8	1,636.6	1,799.7	1,825.2	2,010.3	2,150.4	2,208.4	2,131.7
Indonesia	28.5	19.8	25.6	26.8	33.3	29.8	20.3	18.5	29.9	38.1	26.0	30.0	34.6	34.7	27.7
Japan	11,795.6	12,743.8	12,747.0	13,355.0	12,890.4	12,682.2	12,465.4	12,312.0	11,946.6	11,256.0	11,250.7	11,041.5	10,665.8	10,136.5	10,033.8
Kazakhstan	2.3	4.2	1.1	2.4	2.8	2.3	4.3	2.6	1.9	6.6	2.5	1.2	3.7	3.7	1.0
Kyrgyzstan	2.0	0.0	0.8	0.0	1.3	1.6	0.3	0.2	0.7	1.2	1.7	0.8	2.8	0.9	1.3
Laos	0.0	1.0	0.0	0.8	1.4	1.4	2.9	4.2	2.0	6.5	6.6	6.7	3.6	5.0	6.2
Malaysia	57.1	65.3	85.5	77.8	72.6	55.6	75.8	64.0	85.0	77.0	96.9	116.5	137.6	157.0	197.2
Maldives	0.0	0.3	0.0	0.0	0.0	0.0	1.0	1.0	0.0	2.0	0.0	0.0	0.8	0.5	0.0
Mongolia	1.4	1.7	1.7	2.2	2.8	2.6	3.1	3.3	4.4	5.6	2.7	4.6	9.2	6.0	4.2
Nepal	10.3	14.6	15.3	17.2	13.3	14.1	22.8	27.6	21.2	31.8	29.0	21.4	21.2	17.8	19.7
North Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.0	1.0	0.2	0.5	0.3
Pakistan	50.3	52.8	44.4	46.3	36.2	53.8	54.6	64.9	61.4	69.8	77.8	97.3	107.2	103.0	124.7
Philippines	15.4	13.9	14.8	15.0	14.9	25.0	29.8	25.3	32.8	26.4	33.4	27.5	32.3	34.1	38.5
Singapore	223.0	247.6	271.5	332.0	312.4	339.8	389.6	464.7	447.7	451.0	447.4	477.1	502.9	522.5	522.1
South Korea	559.5	731.9	982.0	1,294.8	1,515.0	1,515.3	1,745.5	1,971.2	2,591.0	2,900.0	3,259.4	3,783.7	4,226.9	4,840.3	5,066.7
Sri Lanka	14.9	19.9	20.8	29.3	18.0	27.4	25.2	24.5	27.8	31.1	33.7	38.8	44.9	41.2	35.6
Taiwan	1,218.5	1,346.8	1,422.5	1,474.6	1,594.4	1,757.8	1,928.0	2,173.4	2,245.8	2,379.2	2,394.2	2,445.4	2,533.7	2,603.8	2,665.4
Tajikistan	0.0	0.9	0.0	0.5	0.0	1.0	0.3	0.3	0.0	0.3	1.2	0.3	0.0 *	0.0	2.4
Thailand	135.6	162.6	172.8	188.9	193.9	210.6	247.5	227.3	237.1	320.5	297.0	333.8	357.4	311.4	365.5
Turkmenistan	0.0	0.0	0.0	1.2	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	4.0	4.3	1.0	0.7	4.0	2.2	4.5	2.5	5.1	1.2	4.8	2.9	2.6	2.2	2.7
Vietnam	17.8	12.9	16.0	23.5	13.9	18.8	26.7	32.2	39.9	36.9	36.0	49.4	37.9	49.1	36.7
Australia/Oceania															
Australia	3,463.9	3,570.1	3,614.6	3,818.4	3,667.3	3,777.5	3,941.5	4,178.6	4,225.2	4,615.2	4,712.6	4,930.6	4,961.7	5,039.9	5,317.0
Fiji	1.3	1.3	1.1	1.6	2.5	1.0	2.4	2.3	1.8	6.3	0.8	2.4	1.5	1.2	2.0
Kiribati	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Marshall Islands	0.0	0.0	0.2	0.0	0.2	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.6	0.0	0.0
Micronesia	0.0	0.3	1.0	0.0	0.0	0.0	0.4	0.7	0.3	0.3	0.0	0.0	0.9	0.0	0.0
Nauru	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Zealand	647.5	662.1	702.3	679.8	645.2	638.4	571.3	644.6	664.2	650.1	693.9	756.2	711.3	702.6	737.4
Niue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Palau	0.0	0.0	0.0	0.4	0.0	0.2	0.3	0.6	0.0	0.8	0.3	0.0	0.0	0.7	0.2
Papua New Guinea	13.3	12.4	12.0	7.9	10.3	10.0	3.4	5.3	7.3	5.7	8.4	4.5	3.5	2.0	7.1
Samoa	1.3	0.0	0.0	0.0	0.0	1.2	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Solomon Islands	0.6	0.1	0.5	1.0	1.0	0.0	1.0	0.5	0.3	0.9	0.2	1.0	0.5	0.5	1.9

Appendix table 5-35

S&E articles in medical sciences, by region/country/economy: 1997–2011

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Tonga	1.1	0.0	0.3	0.0	0.5	0.0	0.7	0.0	0.0	0.3	0.5	0.3	0.3	0.0	0.5
Tuvalu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vanuatu	0.6	0.3	0.0	0.8	1.0	2.7	1.8	2.0	2.3	0.0	0.8	0.0	0.0	0.0	1.5

* = rounds to zero. NA = not available; country did not exist as such.

NOTES: Article counts are from the set of journals covered by the Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles are classified by their year of publication and are assigned to a region/country/economy on the basis of the institutional address(es) listed in the article. Articles are credited on a fractional-count basis (i.e., for articles with collaborating institutions from multiple countries/economies, each country/economy receives fractional credit on the basis of the proportion of its participating institutions). Detail may not add to total because of rounding.

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