

Student Migration and Brain Drain

TABLE 5: NUMBER OF FOREIGN STUDENTS ENROLLED IN TERTIARY EDUCATION BY COUNTRY OF DESTINATION, HEAD COUNT

Year	Major countries of destination							Total of all reporting destinations
	Austria ¹	Belgium	France	Germany ³	Italy	Switzerland ¹	United Kingdom	
	2004	2004	2004	2004	2004	2004	2004	2004
Albania	174	87	369	625	8,494	193	188	14,029
Andorra	n	1	231	4	6	2	4	1,281
Armenia	28	58	290	371	38	35	36	3,322
Austria	a	46	495	6,924	208	877	1,308	12,355
Azerbaijan	12	11	171	311	7	4	87	4,916
Belarus	n	61	465	1,737	105	39	92	12,768
Belgium	72	a	2,841	1,021	174	302	2,418	10,928
Bosnia and Herzegovina	1,732	30	168	2,801	232	182	106	11,220
Bulgaria	1,696	206	2,905	12,116	556	316	557	25,645
Croatia	1,073	28	141	5,437	1,357	322	226	10,637
Cyprus	22	14	187	214	100	13	4,208	18,967
Czech Republic	500	71	662	2,483	152	185	359	7,076
Denmark	69	41	312	697	66	96	1,662	6,586
Estonia	24	18	107	728	28	23	103	4,368
Finland	139	73	332	1,056	95	105	1,883	9,992
France	420	13,370	a	6,678	819	3,856	11,295	57,231
Georgia	42	25	275	3,000	26	24	80	7,547
Germany	6,116	519	6,698	a	1,350	7,492	12,096	61,845
Greece	235	581	2,288	7,577	7,159	284	22,826	51,138
Hungary	1,344	95	536	3,097	184	211	371	8,052
Iceland	27	10	53	167	19	12	317	3,195
Ireland	34	59	522	486	18	37	14,713	17,823
Italy	6,240	2,740	4,686	8,111	a	4,507	5,215	44,892
Latvia	31	24	145	916	40	40	186	4,284
Liechtenstein	125	1	8	19	n	482	13	665
Lithuania	47	34	229	1,701	67	51	210	7,800
Luxembourg	334	1,465	1,709	2,071	25	259	833	6,886
Macedonia FYR	167	17	99	819	120	113	90	10,304
Malta	1	1	21	50	39	6	476	781
Moldova	23	39	463	597	122	30	67	353
Monaco	n	2	295	1	9	1	31	12,274
Netherlands	120	3,078	616	1,876	102	320	2,473	15,517
Norway	67	25	322	787	112	110	3,653	30,454
Poland	1,357	381	3,270	15,417	1,002	475	964	12,761
Portugal	48	760	2,701	1,922	87	702	2,649	-
Romania	493	449	4,474	4,220	1,225	506	615	9,842
Russian Federation	338	476	2,597	11,462	512	571	1,878	22,875
San Marino	1	n	1	13	774	2	118	38,362
Serbia and Montenegro	1,095	105	489	3,747	712	675	351	940
Slovakia	1,515	59	438	1,640	148	192	158	11,195
Slovenia	619	15	77	628	326	52	265	15,719
Spain	334	1,272	3,928	6,014	416	1,655	6,105	2,675
Sweden	184	46	675	839	129	250	3,379	27,607
Switzerland	258	116	1,463	2,169	1,075	a	1,467	13,927
Turkey	2,018	348	2,273	27,582	182	706	1,960	54,381
Ukraine	291	124	924	7,618	227	185	511	29,353
United Kingdom	186	270	2,611	2,154	247	356	a	25,691

Source: OECD

NOTES:

1. Excludes tertiary-type B programmes.
 2. Year of reference 2002.
 3. Excludes advanced research programmes.
- n: magnitude nil — a: not applicable

TABLE 6: NUMBER OF FOREIGN STUDENTS IN TERTIARY EDUCATION, BY REGION OF ORIGIN AND DESTINATION (2004) AND MARKET SHARES IN INTERNATIONAL EDUCATION

Year	Regions of origin of foreign students						Market share 2004 %
	Africa	Asia	Europe	North America	South America	Oceania	
2004	2004	2004	2004	2004	2004	2004	
Albania							
Andorra							
Armenia							
Austria	582	4,715	27,529	402	386	26	1.27
Azerbaijan							
Belarus							
Belgium	11,390	4,138	26,801	320	1,126	46	1.67
Bosnia and Herzegovina							
Bulgaria							
Croatia							
Cyprus							
Czech Republic	284	1,130	9,929	90	141	6	0.56
Denmark	690	2,586	8,230	340	295	54	0.65
Estonia							
Finland	894	2,249	4,258	263	160	34	0.30
France	110,841	36,500	51,582	3,954	9,427	271	8.96
Georgia							
Germany	23,698	94,438	128,455	4,172	7,424	414	9.82
Greece	256	12,005	1,971	36	11	4	0.54
Hungary	242	1,854	10,463	318	31	5	0.49
Iceland	10	44	374	35	22	3	0.02
Ireland	589	3,599	4,868	2,336	78	63	0.48
Italy	3,620	4,373	28,539	476	3,285	48	1.53
Latvia							
Liechtenstein							
Lithuania							
Luxembourg							
Macedonia FYR							
Malta							
Moldova							
Monaco							
Netherlands	2,191	4,907	12,332	373	1,383	52	0.80
Norway	1,062	1,821	6,092	365	311	32	0.47
Poland	278	1,291	5,757	697	77	6	0.31
Portugal	9,622	293	2,874	765	2,506	28	0.61
Romania							
Russian Federation							
San Marino							
Serbia and Montenegro							
Slovakia	102	370	1,130	18	20		0.06
Slovenia							
Spain	6,219	1,664	13,095	830	19,871	55	1.57
Sweden	954	4,411	20,254	1,441	1,026	325	1.38
Switzerland	2,533	3,229	27,294	635	1,418	79	1.35
Turkey	371	9,714	5,119	35	9	31	0.58
Ukraine							
United Kingdom	26,696	140,797	102,920	17,628	8,639	2,175	11.32

Source: OECD

DEFINITION:

Market share: proportions of all foreign students worldwide enrolled in each destination

TABLE 7: MIGRATION RATE RELATED TO PRIMARY, SECONDARY AND TERTIARY EDUCATION AND MEDICAL BRAIN DRAIN

	Migration rate %				Variation in tertiary education (1990-2000)	Physicians per 1000 people	Physicians' emigration rates %	Physicians' emigration stocks
	Primary education	Secondary education	Tertiary education	All education groups				
Source	(a)	(a)	(a)	(a)	(a)	(b)	(b)	(b)
Year	2000	2000	2000	2000	2000/1990	2004	2004	2004
Albania	4.5	9.0	20.0	8.1	NR	1.4	2.17	98
Andorra	1.0	1.0	2.3	1.2	-	2.6	1.28	2
Armenia	-	-	-	-	-	3.5	0.12	13
Austria	6.0	4.1	11.10	5.80	-7.2	3.3	6.07	1,726
Azerbaijan	-	-	-	-	-	3.5	0.03	8
Belarus	-	-	-	-	-	4.5	0.08	35
Belgium	1.7	2.9	5.9	2.90	-1.1	3.9	5.75	2,468
Bosnia and Herzegovina	11.7	17.0	28.6	15.9	-	1.3	12.97	825
Bulgaria	-	-	-	-	-	3.4	3.11	850
Croatia	-	-	-	-	-	2.4	3.07	334
Cyprus	-	-	-	-	-	3.0	5.97	146
Czech Republic	9.7	10.3	29.4	12.4	-	3.5	3.58	1,327
Denmark	5.2	2.6	7.0	4.4	NR	3.7	4.22	870
Estonia	3.4	4.4	13.9	5.4	-	3.2	3.00	132
Finland	8.8	5.9	8.4	7.3	NR	3.1	5.81	996
France	1.2	1.6	3.9	1.9	-1.2	3.3	2.25	4,546
Georgia	-	-	-	-	-	3.9	0.07	15
Germany	2.4	2.4	8.8	3.6	-5.5	3.3	3.44	9,710
Greece	8.5	7.8	14.0	9.1	-4.9	4.4	6.50	3,374
Hungary	-	-	-	-	-	3.1	6.37	2,136
Iceland	9.3	7.7	16.3	9.8	NR	3.6	25.28	352
Ireland	18.2	20.2	34.4	22.8	0.0	2.4	22.37	2,763
Italy	4.5	4.9	7.0	5.0	-2.8	4.4	2.40	6,226
Latvia	1.7	2.0	10.2	3.0	-	2.9	1.90	131
Liechtenstein	6.1	15.9	16.9	13.3	-10.8	-	-	-
Lithuania	7.3	2.8	11.8	5.4	-	4.0	1.61	227
Luxembourg	4.1	6.1	7.6	5.4	-3.5	2.6	21.44	318
Macedonia FYR	12.7	11.5	20.9	13.1	-	2.2	1.59	73
Malta	25.6	10.1	55.2	23.9	-16.3	2.9	7.81	99
Moldova	-	-	-	-	-	2.7	0.19	21
Monaco	4.5	6.5	15.3	7.4	2.1	-	-	-
Netherlands	5.0	2.9	8.9	4.9	-2.4	3.1	6.42	3,448
Norway	9.0	2.2	5.4	3.9	-2.8	3.6	3.55	597
Poland	-	-	-	-	-	2.3	5.46	5,071
Portugal	13.1	20.5	13.8	14.3	-0.8	3.2	2.31	789
Romania	-	-	-	-	-	1.9	6.47	2,840
Russia	-	-	-	-	-	4.2	0.39	2,348
San Marino	9.1	1.4	29.9	10.8	NR	2.5	0.00	0
Serbia and Montenegro	6.1	7.4	17.4	7.9	-	2.1	9.85	1,888
Slovakia	-	-	-	-	-	3.6	3.87	781
Slovenia	4.9	4.1	11.0	5.5	-	2.2	2.12	95
Spain	1.6	1.8	2.6	1.8	-0.8	2.9	4.29	5,337
Sweden	4.9	1.3	4.4	2.8	-0.6	3.0	3.87	1,099
Switzerland	2.0	1.8	9.1	3.1	-1.3	3.6	4.37	1,209
Turkey	-	-	-	-	-	1.3	2.31	2,171
Ukraine	-	-	-	-	-	3.0	1.46	2,131
United Kingdom	4.5	4.3	16.7	7.0	-2.2	2.1	9.25	12,706

Source: (a) OECD, (b) World Bank

NOTES:
NR: Statistically non reliable

DEFINITIONS:
Variation in tertiary education (1990-2000): % of migration rate in 1990 minus % of migration rate in 2000

Physicians per 1000 people: Number of physicians per 1,000 people

Physicians' emigration rates %: Total physicians' emigration rate (stock of physicians abroad as per cent of physicians trained in their country)

Physicians' emigration stocks: Total stock of physicians abroad