

INTRODUCTION

The HCPC has assessed the length of time that International route registrants remained registered for following their first registration. This analysis is hoped to contribute to wider workforce planning efforts.

METHODS

All new international route Clinical scientists first registering between 01 July 2013 and 30 June 2017 were included (n=161) and their registration status at least four years later determined. The registrant's nationalities were grouped by World Bank income categories as at 2015 into High Income Countries (HIC) or Low & Middle Income Countries (LMIC). The Kaplan-Meier method was used to estimate the percent remaining registered and the corresponding 95% confidence intervals for those estimates.

Where registrants hold more than one modality, they are counted in each of those modalities. Therefore the sum of the modalities may be greater than the all profession total. Retention rates have only been calculated for modalities and subgroups with at least 20 registrants.

RESULTS

Overall international route retention

Profession	n	Retention rate		For further details
		%	95% CI	
Clinical scientists	161	86.3	80.0 to 90.8	Whole profession factsheet
Audiology	97	88.7	80.5 to 93.6	Page 2 of this factsheet
Cellular science	1	-	-	Page 3 of this factsheet
Clinical biochemistry	4	-	-	Page 4 of this factsheet
Clinical genetics	11	-	-	Page 5 of this factsheet
Clinical immunology	0	-	-	
Clinical microbiology	2	-	-	Page 6 of this factsheet
Clinical physiology	16	-	-	Page 7 of this factsheet
Embryology	2	-	-	Page 8 of this factsheet
Haematology	0	-	-	
Histocompatibility & immunogenetics	3	-	-	Page 9 of this factsheet
Medical physics & clinical engineering	25	80.0	58.4 to 91.2	Page 10 of this factsheet

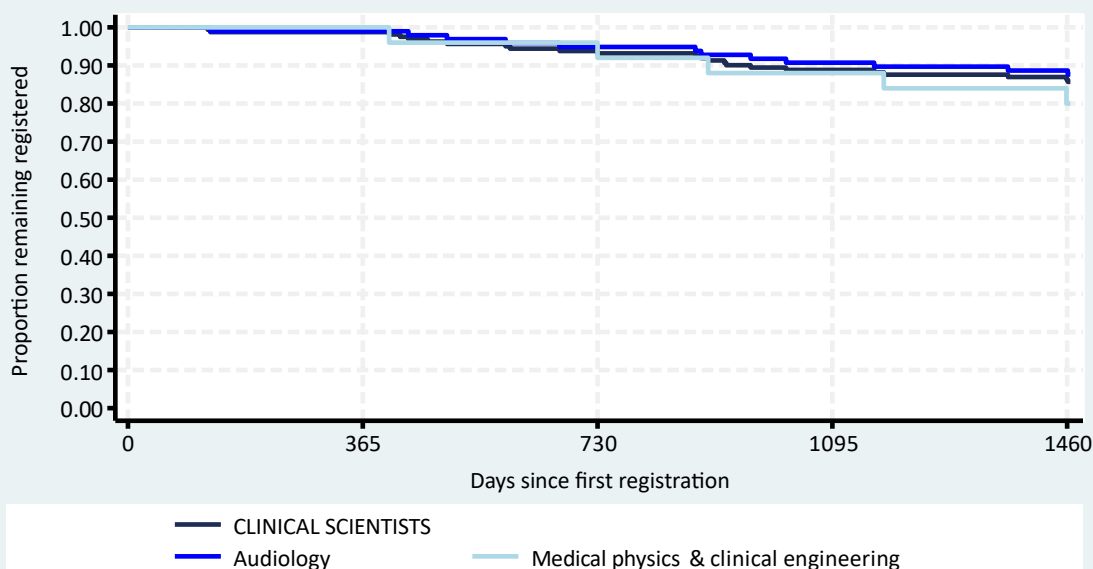


Table 1: Comparison of routes and nationalities, Audiology

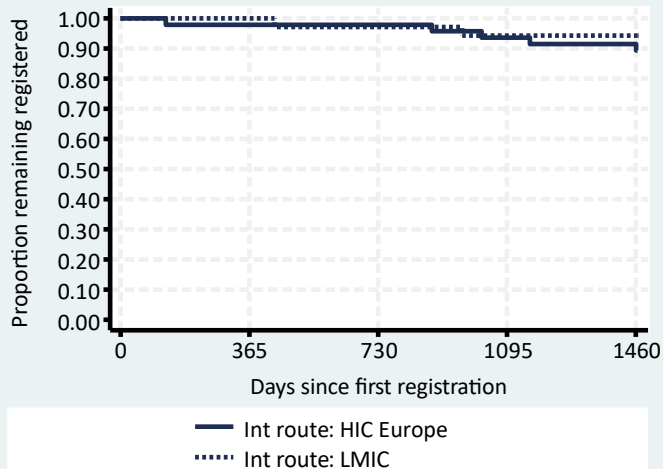
Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	47	48	91.5	78.9 to 96.7
Intl. route: HIC other	15	15	-	-
Intl. route: LMIC	35	36	94.3	79.0 to 98.5

Table 2: International route demographic groups, Audiology

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	31	32	87.1	69.2 to 95.0
HIC Europe: Male 20-29	0	0	-	-
HIC Europe: Male 30+	16	16	-	-
HIC other: Female 20-29	2	2	-	-
HIC other: Female 30+	7	7	-	-
HIC other: Male 20-29	2	2	-	-
HIC other: Male 30+	4	4	-	-
LMIC: Female 20-29	5	5	-	-
LMIC: Female 30+	15	15	-	-
LMIC: Male 20-29	2	2	-	-
LMIC: Male 30+	13	13	-	-

Table 3: Largest international route nationalities, Audiology

Country of nationality	n	%	Retention rate	
			%	95% CI
India	19	20	-	-
Spain	10	10	-	-
Republic of Ireland	8	8	-	-
Australia	6	6	-	-
Portugal	6	6	-	-
Greece	5	5	-	-
Pakistan	4	4	-	-
United Kingdom	4	4	-	-
United States	4	4	-	-
Bulgaria	3	3	-	-



International route demographic groups

Only one group had sufficient numbers to calculate the retention rate, HIC Europe Females aged 30+. In other professions this group tends to have reasonable retention rates, though generally not as good as for LMIC. See Tables 1 & 2 for further details.



**Table 1: Comparison of routes and nationalities,
Cellular science**

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	1	100	-	-
Intl. route: HIC other	0	0	-	-
Intl. route: LMIC	0	0	-	-

**Table 2: International route demographic groups,
Cellular science**

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	1	100	-	-
HIC Europe: Male 20-29	0	0	-	-
HIC Europe: Male 30+	0	0	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	0	0	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	0	0	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	0	0	-	-

**Table 3: Largest international route nationalities,
Cellular science**

Country of nationality	n	%	Retention rate	
			%	95% CI
United Kingdom	1	100	-	-

Table 1: Comparison of routes and nationalities, Clinical biochemistry

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	3	75	-	-
Intl. route: HIC other	0	0	-	-
Intl. route: LMIC	1	25	-	-

Table 2: International route demographic groups, Clinical biochemistry

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	2	50	-	-
HIC Europe: Male 20-29	0	0	-	-
HIC Europe: Male 30+	1	25	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	0	0	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	1	25	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	0	0	-	-

Table 3: Largest international route nationalities, Clinical biochemistry

Country of nationality	n	%	Retention rate	
			%	95% CI
Italy	2	50	-	-
India	1	25	-	-
Spain	1	25	-	-

Table 1: Comparison of routes and nationalities, Clinical genetics

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	9	82	-	-
Intl. route: HIC other	1	9	-	-
Intl. route: LMIC	1	9	-	-

Table 2: International route demographic groups, Clinical genetics

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	6	55	-	-
HIC Europe: Male 20-29	0	0	-	-
HIC Europe: Male 30+	3	27	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	1	9	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	0	0	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	1	9	-	-

Table 3: Largest international route nationalities, Clinical genetics

Country of nationality	n	%	Retention rate	
			%	95% CI
Italy	2	18	-	-
Poland	2	18	-	-
Spain	2	18	-	-
Greece	1	9	-	-
India	1	9	-	-
Sweden	1	9	-	-
United Kingdom	1	9	-	-
United States	1	9	-	-

Table 1: Comparison of routes and nationalities, Clinical microbiology

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	2	100	-	-
Intl. route: HIC other	0	0	-	-
Intl. route: LMIC	0	0	-	-

Table 2: International route demographic groups, Clinical microbiology

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	2	100	-	-
HIC Europe: Male 20-29	0	0	-	-
HIC Europe: Male 30+	0	0	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	0	0	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	0	0	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	0	0	-	-

Table 3: Largest international route nationalities, Clinical microbiology

Country of nationality	n	%	Retention rate	
			%	95% CI
Italy	1	50	-	-
Spain	1	50	-	-

Table 1: Comparison of routes and nationalities, Clinical physiology

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	2	100	-	-
Intl. route: HIC other	0	0	-	-
Intl. route: LMIC	0	0	-	-

Table 2: International route demographic groups, Clinical physiology

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	0	0	-	-
HIC Europe: Male 20-29	2	100	-	-
HIC Europe: Male 30+	0	0	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	0	0	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	0	0	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	0	0	-	-

Table 3: Largest international route nationalities, Clinical physiology

Country of nationality	n	%	Retention rate	
			%	95% CI
Portugal	2	100	-	-

Table 1: Comparison of routes and nationalities, Embryology

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	6	38	-	-
Intl. route: HIC other	3	19	-	-
Intl. route: LMIC	7	44	-	-

Table 2: International route demographic groups, Embryology

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	1	6	-	-
HIC Europe: Female 30+	4	25	-	-
HIC Europe: Male 20-29	1	6	-	-
HIC Europe: Male 30+	0	0	-	-
HIC other: Female 20-29	1	6	-	-
HIC other: Female 30+	2	12	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	1	6	-	-
LMIC: Female 30+	5	31	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	1	6	-	-

Table 3: Largest international route nationalities, Embryology

Country of nationality	n	%	Retention rate	
			%	95% CI
Australia	3	19	-	-
Spain	3	19	-	-
Egypt	1	6	-	-
Greece	1	6	-	-
India	1	6	-	-
Italy	1	6	-	-
Nigeria	1	6	-	-
Portugal	1	6	-	-
South Africa	1	6	-	-
Sri Lanka	1	6	-	-

Table 1: Comparison of routes and nationalities, Histocompatibility and immunogenetics

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	2	67	-	-
Intl. route: HIC other	0	0	-	-
Intl. route: LMIC	1	33	-	-

Table 2: International route demographic groups, Histocompatibility and immunogenetics

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	0	0	-	-
HIC Europe: Male 20-29	0	0	-	-
HIC Europe: Male 30+	2	67	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	0	0	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	0	0	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	0	0	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	1	33	-	-

Table 3: Largest international route nationalities, Histocompatibility and immunogenetics

Country of nationality	n	%	Retention rate	
			%	95% CI
India	1	33	-	-
Italy	1	33	-	-
Spain	1	33	-	-

Table 1: Comparison of routes and nationalities, Medical physics and clinical engineering

Route and country group	n	%	Retention rate	
			%	95% CI
UK route			Not available	
Intl. route: HIC Europe	10	40	-	-
Intl. route: HIC other	1	4	-	-
Intl. route: LMIC	14	56	-	-

Table 2: International route demographic groups, Medical physics and clinical engineering

Demographic group	n	%	Retention rate	
			%	95% CI
HIC Europe: Female 20-29	0	0	-	-
HIC Europe: Female 30+	3	12	-	-
HIC Europe: Male 20-29	2	8	-	-
HIC Europe: Male 30+	5	20	-	-
HIC other: Female 20-29	0	0	-	-
HIC other: Female 30+	0	0	-	-
HIC other: Male 20-29	0	0	-	-
HIC other: Male 30+	1	4	-	-
LMIC: Female 20-29	0	0	-	-
LMIC: Female 30+	3	12	-	-
LMIC: Male 20-29	0	0	-	-
LMIC: Male 30+	11	44	-	-

Table 3: Largest international route nationalities, Medical physics and clinical engineering

Country of nationality	n	%	Retention rate	
			%	95% CI
India	10	40	-	-
Spain	3	12	-	-
Republic of Ireland	2	8	-	-
Cyprus	1	4	-	-
Egypt	1	4	-	-
Greece	1	4	-	-
Italy	1	4	-	-
New Zealand	1	4	-	-
Poland	1	4	-	-
Portugal	1	4	-	-