

Supporting the Migrant Integration Framework for Wales: Examining GP registrations and activity by migrant status

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Date: October 2025

This ADR Wales Data Insight explores GP registration by migrants using routinely collected administrative, health, and survey data. This analysis was carried out to support the development of the Welsh Government's Migrant Integration Framework.

The Migrant Integration Framework for Wales was published in December 2023 and plays a key part in the Welsh Government's commitment to becoming a Nation of Sanctuary. The focus of the Nation of Sanctuary work is on preventing the most harmful impacts experienced by sanctuary seekers, such as homelessness, destitution, exploitation, unemployment, and mental ill-health, thereby supporting displaced people to integrate into Welsh communities and call Wales their home. The framework highlights recommended approaches to support integration and aims to measure the integration of migrants in Wales.

The framework covers seven domains of life: work, housing, health & social care, social connections, education & skills, safety & stability, and rights & responsibilities. Within each domain are recommended indicators that can be used to measure integration.

Throughout 2024, the framework was implemented across Wales. The next stage in its development is a comprehensive data mapping and collection exercise to ensure that as much data as possible is available to produce a baseline dataset for the indicators.

One of these indicators is the percentage of individuals registered with a GP by migrant status. Understanding GP registrations and activity among migrants is important, as timely, high-quality health and social care services are essential for promoting the health and well-being of individuals and communities. Access to these services, particularly when tailored to meet migrants' diverse needs, can support both well-being and inclusion.

The following study objectives were set out to contribute to the GP registration indicator:

1. What is the percentage of GP registrations in Wales at a given point in the year that are associated with migrants?
2. What is the percentage of GP appointments in Wales in a given year that are attended by migrants?
3. Do these figures vary according to the length of time migrants are resident in the UK?

This Data Insight has been produced by the ADR Wales Social Justice research team and forms part of the ongoing ADR Wales programme of work.

What we did

This analysis used anonymised, individual-level, population-wide linked data held within the Secure Anonymised Information Linkage (SAIL) Databank at Swansea University.

We linked the following datasets:

- Welsh Demographic Service Dataset (WDSD): to define and track the resident population of Wales registered to a GP over time.
- The Annual District Death Extract (ADDE): to identify any deaths and ensure appropriate study follow-up.
- Welsh Longitudinal General Practice (WLGP): to capture all GP activity and measure utilisation.
- Census 2021: to identify migrant status.

Migrant status was defined using the country of birth variable. Individuals were considered UK-born if they reported a country of birth as Wales, England, Scotland, Northern Ireland, Great Britain, or the United Kingdom. Those born elsewhere were grouped by continent (Europe, Asia, Africa, South America, North America, and Oceania).

The analysis covers a 10-year period from 2014 to 2023, with population cohorts created for each calendar year. As per the objectives noted above, for objective one, we calculated the population of Wales on 1 January each year. For objectives two and three (which involved measuring GP utilisation), we calculated the population as of 1 January with follow-up until death, residency/registration break, or year-end. These study populations were limited to those registered with a GP practice that supplies data to SAIL as currently SAIL only receives approximately 85% of GP data in Wales. This is an important step, as otherwise approximately 15% of the Welsh population (that SAIL does not hold data for) would seem healthy in terms of primary care interactions due an absence of available health records.

For objective one, we calculated the number and percentage of individuals registered with a Welsh and/or SAIL-contributing GP by migrant status each year. For objective two, we calculated the rate of GP activity (unique individual, date of event, and GP code) per person-year by migrant status, along with the annual percentage of GP activity by migrant status (restricted to those surviving and registered for the full year). For objective three, we calculated the rate of GP activity per person-year by migrant status and continuous GP registration history prior to 1 January each year.

What we found

The data tables in the Annex (see below) summarise GP registrations and activity by migrant status between 2014 and 2023 (Tables 1–6).

Tables 1 and 2 show the results for objective one. Most registered patients in Wales were UK-born, with 4.46–6.36% of individuals born elsewhere over the study period. Among migrants, those born in Europe were the largest group, followed by Asia, with the smallest proportion born in South America.

Tables 3 and 4 provide results for objective two. In 2023, there were 181,380,307 recorded GP events, equating to 73.6 events per person-year for UK-born individuals, 60.5 for those born elsewhere, and 55.8 for those without linkable Census data. Among migrants in 2023, individuals born in North America had the highest GP activity rate (69.0), while those born in Oceania had the lowest (49.1).

Tables 5 and 6 show the results for objective three. Across all years, a general trend emerged: the longer someone had been registered with a GP, the higher their rate of GP activity—particularly among those born outside the UK. For UK-born individuals, the pattern was less consistent; in fact, those registered for less than a year often had higher GP activity than those registered for 1–2 or 3–5 years. Among individuals registered

for at least six years, activity levels were similar regardless of place of birth (71.8–77.8 events per person-year in 2023). However, among those registered for less than a year, UK-born individuals had much higher GP activity than those born elsewhere (71.9 vs 46.8 events per person-year in 2023) (Table 5).

Why it matters

This study used population-wide administrative, health, and survey data to enhance our ability to measure GP activity by migrant status in Wales.

We hope the findings will support further work to examine migrant integration in Wales and inform the continued development of the Welsh Government's Migrant Integration Framework. In doing so, it contributes to evidence-based policymaking that supports all migrants in contributing fully to Welsh life - for the benefit of everyone.

Limitations

- Migrant status is based on the Census 2021 population but applied to a 10-year study period.
- Not all individuals in Census 2021 can be linked to SAIL, so some data is missing. Caution is advised when interpreting trends over time, as linkage rates improve closer to 2021.
- Outputs for objectives two and three are limited to the Welsh population registered with GP practices that contribute data to SAIL.
- We cannot track when individuals moved in and out of the UK; thus, outputs for objective three are based on uninterrupted GP registration within SAIL prior to each calendar year.

Annex

Table 1 - Numbers and percentages of the population of Wales registered to a Welsh GP and registered to a SAIL providing GP, and present in the Census 2021 by migrant status.

Year	Country of birth	Registered with a Welsh GP	Population	Percentage registered with a Welsh GP	Registered with a Welsh SAIL providing GP	SAIL providing population	Percentage registered with a Welsh SAIL providing GP
2014	Born in UK	2,081,214	2,178,434	95.54	1,727,841	1,807,199	95.61
2014	Elsewhere	97,220	2,178,434	4.46	79,358	1,807,199	4.39
2015	Born in UK	2,123,164	2,226,142	95.37	1,773,597	1,858,334	95.44
2015	Elsewhere	102,978	2,226,142	4.63	84,737	1,858,334	4.56
2016	Born in UK	2,165,005	2,274,562	95.18	1,823,664	1,914,122	95.27
2016	Elsewhere	109,557	2,274,562	4.82	90,458	1,914,122	4.73
2017	Born in UK	2,209,544	2,326,809	94.96	1,876,842	1,974,904	95.03
2017	Elsewhere	117,265	2,326,809	5.04	98,062	1,974,904	4.97
2018	Born in UK	2,257,252	2,382,803	94.73	1,925,825	2,030,297	94.85
2018	Elsewhere	125,551	2,382,803	5.27	104,472	2,030,297	5.15
2019	Born in UK	2,308,582	2,443,475	94.48	1,945,924	2,056,270	94.63
2019	Elsewhere	134,893	2,443,475	5.52	110,346	2,056,270	5.37
2020	Born in UK	2,360,882	2,507,066	94.17	1,996,588	2,116,999	94.31
2020	Elsewhere	146,184	2,507,066	5.83	120,411	2,116,999	5.69
2021	Born in UK	2,411,212	2,568,301	93.88	2,051,811	2,181,984	94.03
2021	Elsewhere	157,089	2,568,301	6.12	130,173	2,181,984	5.97
2022	Born in UK	2,401,846	2,564,894	93.64	2,047,507	2,183,192	93.79
2022	Elsewhere	163,048	2,564,894	6.36	135,685	2,183,192	6.21
2023	Born in UK	2,356,313	2,512,814	93.77	2,009,677	2,139,757	93.92
2023	Elsewhere	156,501	2,512,814	6.23	130,080	2,139,757	6.08

Table 2 – Numbers and percentages of the population of Wales registered to a Welsh GP and registered to a SAIL providing GP, and present in the Census 2021 by migrant status and grouped by continent.

Year	Country of birth (grouped by continent)	Registered with a Welsh GP	Population	Percentage registered with a Welsh GP	Registered with a Welsh SAIL providing GP	SAIL providing population	Percentage registered with a Welsh SAIL providing GP
2014	Africa	12,962	2,178,434	0.6	10,362	1,807,199	0.57
2014	Asia	32,426	2,178,434	1.49	26,836	1,807,199	1.48
2014	Born in UK	2,081,214	2,178,434	95.54	1,727,841	1,807,199	95.61
2014	Europe	42,903	2,178,434	1.97	34,894	1,807,199	1.93
2014	North America	4,756	2,178,434	0.22	3,884	1,807,199	0.21
2014	Oceania	3,218	2,178,434	0.15	2,585	1,807,199	0.14
2014	South America	955	2,178,434	0.04	797	1,807,199	0.04
2015	Africa	13,670	2,226,142	0.61	10,987	1,858,334	0.59
2015	Asia	33,912	2,226,142	1.52	28,347	1,858,334	1.53
2015	Born in UK	2,123,164	2,226,142	95.37	1,773,597	1,858,334	95.44
2015	Europe	45,972	2,226,142	2.07	37,695	1,858,334	2.03
2015	North America	4,983	2,226,142	0.22	4,083	1,858,334	0.22
2015	Oceania	3,438	2,226,142	0.15	2,780	1,858,334	0.15
2015	South America	1,003	2,226,142	0.05	845	1,858,334	0.05
2016	Africa	14,378	2,274,562	0.63	11,565	1,914,122	0.60
2016	Asia	35,642	2,274,562	1.57	29,838	1,914,122	1.56
2016	Born in UK	2,165,005	2,274,562	95.18	1,823,664	1,914,122	95.27
2016	Europe	49,555	2,274,562	2.18	40,870	1,914,122	2.14
2016	North America	5,201	2,274,562	0.23	4,273	1,914,122	0.22
2016	Oceania	3,697	2,274,562	0.16	3,010	1,914,122	0.16
2016	South America	1,084	2,274,562	0.05	902	1,914,122	0.05
2017	Africa	15,265	2,326,809	0.66	12,471	1,974,904	0.63
2017	Asia	37,885	2,326,809	1.63	32,283	1,974,904	1.63
2017	Born in UK	2,209,544	2,326,809	94.96	1,876,842	1,974,904	95.03
2017	Europe	53,426	2,326,809	2.3	44,448	1,974,904	2.25
2017	North America	5,512	2,326,809	0.24	4,558	1,974,904	0.23

Year	Country of birth (grouped by continent)	Registered with a Welsh GP	Population	Percentage registered with a Welsh GP	Registered with a Welsh SAIL providing GP	SAIL providing population	Percentage registered with a Welsh SAIL providing GP
2017	Oceania	4,003	2,326,809	0.17	3,317	1,974,904	0.17
2017	South America	1,174	2,326,809	0.05	985	1,974,904	0.05
2018	Africa	16,225	2,382,803	0.68	13,182	2,030,297	0.65
2018	Asia	40,412	2,382,803	1.7	34,130	2,030,297	1.68
2018	Born in UK	2,257,252	2,382,803	94.73	1,925,825	2,030,297	94.85
2018	Europe	57,439	2,382,803	2.41	47,609	2,030,297	2.34
2018	North America	5,901	2,382,803	0.25	4,899	2,030,297	0.24
2018	Oceania	4,296	2,382,803	0.18	3,576	2,030,297	0.18
2018	South America	1,278	2,382,803	0.05	1,076	2,030,297	0.05
2019	Africa	17,452	2,443,475	0.71	13,812	2,056,270	0.67
2019	Asia	43,393	2,443,475	1.78	35,986	2,056,270	1.75
2019	Born in UK	2,308,582	2,443,475	94.48	1,945,924	2,056,270	94.63
2019	Europe	61,670	2,443,475	2.52	50,422	2,056,270	2.45
2019	North America	6,315	2,443,475	0.26	5,131	2,056,270	0.25
2019	Oceania	4,644	2,443,475	0.19	3,819	2,056,270	0.19
2019	South America	1,419	2,443,475	0.06	1,176	2,056,270	0.06
2020	Africa	19,146	2,507,066	0.76	15,309	2,116,999	0.72
2020	Asia	47,483	2,507,066	1.89	39,619	2,116,999	1.87
2020	Born in UK	2,360,882	2,507,066	94.17	1,996,588	2,116,999	94.31
2020	Europe	66,100	2,507,066	2.64	54,403	2,116,999	2.57
2020	North America	6,866	2,507,066	0.27	5,649	2,116,999	0.27
2020	Oceania	4,991	2,507,066	0.2	4,101	2,116,999	0.19
2020	South America	1,598	2,507,066	0.06	1,330	2,116,999	0.06
2021	Africa	20,737	2,568,301	0.81	16,804	2,181,984	0.77
2021	Asia	51,855	2,568,301	2.02	43,556	2,181,984	2.00
2021	Born in UK	2,411,212	2,568,301	93.88	2,051,811	2,181,984	94.03
2021	Europe	69,971	2,568,301	2.72	57,786	2,181,984	2.65
2021	North America	7,450	2,568,301	0.29	6,142	2,181,984	0.28

Year	Country of birth (grouped by continent)	Registered with a Welsh GP	Population	Percentage registered with a Welsh GP	Registered with a Welsh SAIL providing GP	SAIL providing population	Percentage registered with a Welsh SAIL providing GP
2021	Oceania	5,299	2,568,301	0.21	4,393	2,181,984	0.20
2021	South America	1,777	2,568,301	0.07	1,492	2,181,984	0.07
2022	Africa	21,614	2,564,894	0.84	17,566	2,183,192	0.80
2022	Asia	53,839	2,564,894	2.1	45,555	2,183,192	2.09
2022	Born in UK	2,401,846	2,564,894	93.64	2,047,507	2,183,192	93.79
2022	Europe	72,506	2,564,894	2.83	60,029	2,183,192	2.75
2022	North America	7,670	2,564,894	0.3	6,342	2,183,192	0.29
2022	Oceania	5,507	2,564,894	0.21	4,575	2,183,192	0.21
2022	South America	1,912	2,564,894	0.07	1,618	2,183,192	0.07
2023	Africa	20,818	2,512,814	0.83	16,857	2,139,757	0.79
2023	Asia	50,876	2,512,814	2.02	43,084	2,139,757	2.01
2023	Born in UK	2,356,313	2,512,814	93.77	2,009,677	2,139,757	93.92
2023	Europe	70,254	2,512,814	2.8	58,126	2,139,757	2.72
2023	North America	7,361	2,512,814	0.29	6,055	2,139,757	0.28
2023	Oceania	5,362	2,512,814	0.21	4,433	2,139,757	0.21
2023	South America	1,830	2,512,814	0.07	1,525	2,139,757	0.07

Table 3 – Number and percentage of GP events, total person years of follow up and GP activity rates of the population of Wales registered to a SAIL providing GP by migrant status.

Year	Country of birth	Number of GP events	Total person-years of follow up	Rate of GP events per person-year	Number of GP events (full year of registration)	Total GP events (full year of registration)	Percentage of GP events (full year of registration)
2014	Born in UK	90,502,816	1,717,751	52.69	90,166,281	147,197,340	61.26
2014	Elsewhere	3,983,719	78,304	50.88	3,957,492	147,197,340	2.69
2014	unlinked	56,915,896	784,196	72.58	53,073,567	147,197,340	36.06
2015	Born in UK	95,372,405	1,762,589	54.11	94,792,775	149,017,489	63.61
2015	Elsewhere	4,275,776	83,670	51.1	4,240,810	149,017,489	2.85
2015	unlinked	53,947,706	758,647	71.11	49,983,904	149,017,489	33.54

Year	Country of birth	Number of GP events	Total person-years of follow up	Rate of GP events per person-year	Number of GP events (full year of registration)	Total GP events (full year of registration)	Percentage of GP events (full year of registration)
2016	BorninUK	103,125,685	1,817,988	56.73	102,480,854	154,878,826	66.17
2016	Elsewhere	4,714,371	89,583	52.63	4,681,832	154,878,826	3.02
2016	unlinked	51,825,522	733,998	70.61	47,716,140	154,878,826	30.81
2017	BorninUK	109,398,690	1,859,879	58.82	108,177,076	157,185,904	68.82
2017	Elsewhere	5,187,292	96,223	53.91	5,084,332	157,185,904	3.23
2017	unlinked	48,366,402	700,047	69.09	43,924,496	157,185,904	27.94
2018	BorninUK	115,851,757	1,894,812	61.14	114,058,451	159,083,609	71.70
2018	Elsewhere	5,605,070	101,617	55.16	5,463,345	159,083,609	3.43
2018	unlinked	44,211,253	657,614	67.23	39,561,813	159,083,609	24.87
2019	BorninUK	123,960,859	1,934,578	64.08	123,272,022	164,955,084	74.73
2019	Elsewhere	6,164,580	108,895	56.61	6,121,545	164,955,084	3.71
2019	unlinked	39,877,829	615,124	64.83	35,561,517	164,955,084	21.56
2020	BorninUK	113,265,808	1,980,780	57.18	112,521,789	144,025,423	78.13
2020	Elsewhere	5,732,475	118,681	48.3	5,679,218	144,025,423	3.94
2020	unlinked	30,355,479	573,258	52.95	25,824,416	144,025,423	17.93
2021	BorninUK	142,000,188	2,021,930	70.23	138,108,198	173,914,794	79.41
2021	Elsewhere	7,667,813	127,227	60.27	7,454,989	173,914,794	4.29
2021	unlinked	29,760,719	524,090	56.79	28,351,607	173,914,794	16.30
2022	BorninUK	144,486,335	2,010,297	71.87	140,517,047	178,579,423	78.69
2022	Elsewhere	7,625,700	130,994	58.21	7,417,341	178,579,423	4.15
2022	unlinked	31,915,684	557,797	57.22	30,645,035	178,579,423	17.16
2023	BorninUK	145,274,306	1,972,957	73.63	140,884,160	181,380,307	77.67
2023	Elsewhere	7,612,415	125,905	60.46	7,407,762	181,380,307	4.08
2023	unlinked	34,557,419	619,838	55.75	33,088,385	181,380,307	18.24

Table 4 – Number and percentage of GP events, total person years of follow up and GP activity rates of the population of Wales registered to a SAIL providing GP by migrant status, grouped by continent.

Year	Country of birth (grouped by continent)	Number of GP events	Total person-years of follow up	Rate of GP events per person-year	Number of GP events (full year of registration)	Total GP events (full year of registration)	Percentage of GP events (full year of registration)
2014	Africa	532,820	10,214	52.16	527,719	147,197,340	0.36
2014	Asia	1,461,963	26,547	55.07	1,454,079	147,197,340	0.99
2014	Born in UK	90,502,816	1,717,751	52.69	90,166,281	147,197,340	61.26
2014	Europe	1,623,136	34,374	47.22	1,612,269	147,197,340	1.10
2014	North America	220,717	3,849	57.35	219,813	147,197,340	0.15
2014	Oceania	105,737	2,535	41.7	104,719	147,197,340	0.07
2014	South America	39,346	783	50.23	38,893	147,197,340	0.03
2014	unlinked	56,915,896	784,196	72.58	53,073,567	147,197,340	36.06
2015	Africa	575,269	10,824	53.15	569,539	149,017,489	0.38
2015	Asia	1,568,715	28,063	55.9	1,556,222	149,017,489	1.04
2015	Born in UK	95,372,405	1,762,589	54.11	94,792,775	149,017,489	63.61
2015	Europe	1,744,318	37,165	46.93	1,730,327	149,017,489	1.16
2015	North America	232,555	4,045	57.49	230,951	149,017,489	0.15
2015	Oceania	111,819	2,742	40.79	111,107	149,017,489	0.07
2015	South America	43,100	832	51.81	42,664	149,017,489	0.03
2015	unlinked	53,947,706	758,647	71.11	49,983,904	149,017,489	33.54
2016	Africa	628,907	11,441	54.97	624,571	154,878,826	0.40
2016	Asia	1,719,768	29,617	58.07	1,708,593	154,878,826	1.10
2016	Born in UK	103,125,685	1,817,988	56.73	102,480,854	154,878,826	66.17
2016	Europe	1,938,873	40,408	47.98	1,924,706	154,878,826	1.24
2016	North America	254,428	4,247	59.9	252,772	154,878,826	0.16
2016	Oceania	124,713	2,981	41.84	123,905	154,878,826	0.08
2016	South America	47,682	888	53.69	47,285	154,878,826	0.03
2016	unlinked	51,825,522	733,998	70.61	47,716,140	154,878,826	30.81
2017	Africa	696,281	12,196	57.09	680,887	157,185,904	0.43
2017	Asia	1,895,703	31,708	59.79	1,854,279	157,185,904	1.18

Year	Country of birth (grouped by continent)	Number of GP events	Total person-years of follow up	Rate of GP events per person-year	Number of GP events (full year of registration)	Total GP events (full year of registration)	Percentage of GP events (full year of registration)
2017	Born in UK	109,398,690	1,859,879	58.82	108,177,076	157,185,904	68.82
2017	Europe	2,131,569	43,593	48.9	2,092,175	157,185,904	1.33
2017	North America	272,338	4,494	60.6	267,937	157,185,904	0.17
2017	Oceania	139,392	3,261	42.74	137,851	157,185,904	0.09
2017	South America	52,009	970	53.59	51,203	157,185,904	0.03
2017	unlinked	48,366,402	700,047	69.09	43,924,496	157,185,904	27.94
2018	Africa	747,269	12,753	58.59	722,519	159,083,609	0.45
2018	Asia	2,035,661	33,234	61.25	1,981,694	159,083,609	1.25
2018	Born in UK	115,851,757	1,894,812	61.14	114,058,451	159,083,609	71.70
2018	Europe	2,313,541	46,333	49.93	2,261,268	159,083,609	1.42
2018	North America	300,309	4,773	62.92	293,508	159,083,609	0.18
2018	Oceania	150,428	3,483	43.18	147,888	159,083,609	0.09
2018	South America	57,862	1,041	55.6	56,468	159,083,609	0.04
2018	unlinked	44,211,253	657,614	67.23	39,561,813	159,083,609	24.87
2019	Africa	823,346	13,631	60.4	816,452	164,955,084	0.49
2019	Asia	2,224,774	35,584	62.52	2,211,135	164,955,084	1.34
2019	Born in UK	123,960,859	1,934,578	64.08	123,272,022	164,955,084	74.73
2019	Europe	2,551,937	49,693	51.35	2,533,894	164,955,084	1.54
2019	North America	330,452	5,072	65.16	328,487	164,955,084	0.20
2019	Oceania	168,628	3,760	44.85	167,343	164,955,084	0.10
2019	South America	65,443	1,154	56.69	64,234	164,955,084	0.04
2019	unlinked	39,877,829	615,124	64.83	35,561,517	164,955,084	21.56
2020	Africa	785,801	15,083	52.1	778,104	144,025,423	0.54
2020	Asia	2,048,384	39,134	52.34	2,030,322	144,025,423	1.41
2020	Born in UK	113,265,808	1,980,780	57.18	112,521,789	144,025,423	78.13
2020	Europe	2,358,747	53,519	44.07	2,336,038	144,025,423	1.62
2020	North America	315,802	5,576	56.64	312,988	144,025,423	0.22
2020	Oceania	162,330	4,059	39.99	160,972	144,025,423	0.11

Year	Country of birth (grouped by continent)	Number of GP events	Total person-years of follow up	Rate of GP events per person-year	Number of GP events (full year of registration)	Total GP events (full year of registration)	Percentage of GP events (full year of registration)
2020	South America	61,411	1,308	46.93	60,794	144,025,423	0.04
2020	unlinked	30,355,479	573,258	52.95	25,824,416	144,025,423	17.93
2021	Africa	1,043,470	16,414	63.57	1,013,290	173,914,794	0.58
2021	Asia	2,730,851	42,504	64.25	2,665,033	173,914,794	1.53
2021	Born in UK	142,000,188	2,021,930	70.23	138,108,198	173,914,794	79.41
2021	Europe	3,171,901	56,569	56.07	3,076,267	173,914,794	1.77
2021	North America	409,833	5,991	68.41	397,401	173,914,794	0.23
2021	Oceania	222,746	4,295	51.86	216,590	173,914,794	0.12
2021	South America	89,012	1,454	61.22	86,408	173,914,794	0.05
2021	unlinked	29,760,719	524,090	56.79	28,351,607	173,914,794	16.30
2022	Africa	1,043,666	16,925	61.66	1,015,928	178,579,423	0.57
2022	Asia	2,729,137	43,701	62.45	2,664,513	178,579,423	1.49
2022	Born in UK	144,486,335	2,010,297	71.87	140,517,047	178,579,423	78.69
2022	Europe	3,139,100	58,255	53.89	3,042,813	178,579,423	1.70
2022	North America	410,482	6,123	67.04	399,214	178,579,423	0.22
2022	Oceania	214,444	4,454	48.15	208,109	178,579,423	0.12
2022	South America	88,871	1,536	57.85	86,764	178,579,423	0.05
2022	unlinked	31,915,684	557,797	57.22	30,645,035	178,579,423	17.16
2023	Africa	1,049,889	16,254	64.59	1,020,212	181,380,307	0.56
2023	Asia	2,724,210	41,626	65.44	2,669,812	181,380,307	1.47
2023	Born in UK	145,274,306	1,972,957	73.63	140,884,160	181,380,307	77.67
2023	Europe	3,137,368	56,381	55.65	3,039,425	181,380,307	1.68
2023	North America	403,339	5,844	69.02	389,650	181,380,307	0.21
2023	Oceania	212,212	4,322	49.1	206,220	181,380,307	0.11
2023	South America	85,397	1,477	57.81	82,443	181,380,307	0.05
2023	unlinked	34,557,419	619,838	55.75	33,088,385	181,380,307	18.24

Table 5 – Number of GP events, total person years of follow up and GP activity rates of the population of Wales registered to a SAIL providing GP by migrant status and continuous GP registration history.

Year	Country of birth	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2014	Born in UK	<1 year	2,722,409	62,911	43.27
2014	Born in UK	1-2 years	3,563,150	103,889	34.30
2014	Born in UK	3-5 years	4,209,446	131,210	32.08
2014	Born in UK	6+ years	80,007,811	1,419,741	56.35
2014	Elsewhere	<1 year	238,742	6,928	34.46
2014	Elsewhere	1-2 years	349,642	9,891	35.35
2014	Elsewhere	3-5 years	451,790	12,177	37.10
2014	Elsewhere	6+ years	2,943,545	49,308	59.70
2014	unlinked	<1 year	2,059,667	50,271	40.97
2014	unlinked	1-2 years	2,488,732	64,431	38.63
2014	unlinked	3-5 years	2,477,361	59,575	41.58
2014	unlinked	6+ years	49,890,136	609,918	81.80
2015	Born in UK	<1 year	2,619,758	61,416	42.66
2015	Born in UK	1-2 years	4,125,937	111,663	36.95
2015	Born in UK	3-5 years	4,843,644	142,443	34.00
2015	Born in UK	6+ years	83,783,066	1,447,067	57.90
2015	Elsewhere	<1 year	246,282	7,075	34.81
2015	Elsewhere	1-2 years	399,725	11,275	35.45
2015	Elsewhere	3-5 years	470,035	12,632	37.21
2015	Elsewhere	6+ years	3,159,734	52,689	59.97
2015	unlinked	<1 year	1,852,482	48,191	38.44
2015	unlinked	1-2 years	2,617,763	66,739	39.22
2015	unlinked	3-5 years	2,637,078	63,086	41.80
2015	unlinked	6+ years	46,840,383	580,632	80.67
2016	Born in UK	<1 year	3,249,233	71,173	45.65
2016	Born in UK	1-2 years	4,997,424	122,641	40.75
2016	Born in UK	3-5 years	5,172,985	146,987	35.19
2016	Born in UK	6+ years	89,706,043	1,477,187	60.73
2016	Elsewhere	<1 year	260,001	7,665	33.92

Year	Country of birth	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2016	Elsewhere	1-2 years	469,790	12,752	36.84
2016	Elsewhere	3-5 years	515,845	13,274	38.86
2016	Elsewhere	6+ years	3,468,735	55,891	62.06
2016	unlinked	<1 year	2,039,539	48,981	41.64
2016	unlinked	1-2 years	2,843,350	68,832	41.31
2016	unlinked	3-5 years	2,596,483	63,049	41.18
2016	unlinked	6+ years	44,346,150	553,136	80.17
2017	Born in UK	<1 year	3,572,715	74,006	48.28
2017	Born in UK	1-2 years	5,482,030	129,682	42.27
2017	Born in UK	3-5 years	6,051,111	157,911	38.32
2017	Born in UK	6+ years	94,292,834	1,498,280	62.93
2017	Elsewhere	<1 year	349,929	9,454	37.02
2017	Elsewhere	1-2 years	486,101	13,176	36.89
2017	Elsewhere	3-5 years	598,812	14,917	40.14
2017	Elsewhere	6+ years	3,752,450	58,677	63.95
2017	unlinked	<1 year	2,001,552	48,141	41.58
2017	unlinked	1-2 years	2,832,703	67,048	42.25
2017	unlinked	3-5 years	2,755,024	64,994	42.39
2017	unlinked	6+ years	40,777,123	519,864	78.44
2018	Born in UK	<1 year	4,395,972	87,061	50.49
2018	Born in UK	1-2 years	6,372,152	140,874	45.23
2018	Born in UK	3-5 years	6,578,447	160,756	40.92
2018	Born in UK	6+ years	98,505,186	1,506,121	65.40
2018	Elsewhere	<1 year	394,667	10,383	38.01
2018	Elsewhere	1-2 years	577,083	15,031	38.39
2018	Elsewhere	3-5 years	649,432	15,742	41.25
2018	Elsewhere	6+ years	3,983,888	60,461	65.89
2018	unlinked	<1 year	2,050,130	47,605	43.07
2018	unlinked	1-2 years	2,839,185	65,970	43.04
2018	unlinked	3-5 years	2,613,827	62,718	41.68
2018	unlinked	6+ years	36,708,111	481,321	76.27

Year	Country of birth	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2019	Born in UK	<1 year	3,761,876	76,620	49.10
2019	Born in UK	1-2 years	7,673,127	157,169	48.82
2019	Born in UK	3-5 years	8,139,504	178,922	45.49
2019	Born in UK	6+ years	104,386,352	1,521,867	68.59
2019	Elsewhere	<1 year	415,404	10,981	37.83
2019	Elsewhere	1-2 years	721,121	17,491	41.23
2019	Elsewhere	3-5 years	736,495	17,386	42.36
2019	Elsewhere	6+ years	4,291,560	63,036	68.08
2019	unlinked	<1 year	1,537,286	38,412	40.02
2019	unlinked	1-2 years	2,841,666	64,970	43.74
2019	unlinked	3-5 years	2,787,308	64,195	43.42
2019	unlinked	6+ years	32,711,569	447,547	73.09
2020	Born in UK	<1 year	3,413,819	77,266	44.18
2020	Born in UK	1-2 years	6,864,058	160,587	42.74
2020	Born in UK	3-5 years	7,763,677	189,976	40.87
2020	Born in UK	6+ years	95,224,254	1,552,951	61.32
2020	Elsewhere	<1 year	381,012	12,549	30.36
2020	Elsewhere	1-2 years	658,254	19,114	34.44
2020	Elsewhere	3-5 years	692,221	19,437	35.61
2020	Elsewhere	6+ years	4,000,988	67,580	59.20
2020	unlinked	<1 year	1,184,119	35,842	33.04
2020	unlinked	1-2 years	2,037,073	57,848	35.21
2020	unlinked	3-5 years	2,259,392	62,213	36.32
2020	unlinked	6+ years	24,874,895	417,355	59.60
2021	Born in UK	<1 year	5,110,914	86,863	58.84
2021	Born in UK	1-2 years	7,562,747	148,970	50.77
2021	Born in UK	3-5 years	11,308,465	213,639	52.93
2021	Born in UK	6+ years	118,018,062	1,572,458	75.05
2021	Elsewhere	<1 year	527,009	12,748	41.34
2021	Elsewhere	1-2 years	887,736	20,822	42.63
2021	Elsewhere	3-5 years	1,065,043	22,243	47.88

Year	Country of birth	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2021	Elsewhere	6+ years	5,188,025	71,413	72.65
2021	unlinked	<1 year	1,339,500	27,606	48.52
2021	unlinked	1-2 years	1,813,697	47,545	38.15
2021	unlinked	3-5 years	2,586,020	61,999	41.71
2021	unlinked	6+ years	24,021,502	386,940	62.08
2022	Born in UK	<1 year	2,826,207	54,583	51.78
2022	Born in UK	1-2 years	8,498,834	154,839	54.89
2022	Born in UK	3-5 years	11,551,291	214,354	53.89
2022	Born in UK	6+ years	121,610,003	1,586,520	76.65
2022	Elsewhere	<1 year	316,472	11,177	28.31
2022	Elsewhere	1-2 years	839,407	20,940	40.09
2022	Elsewhere	3-5 years	1,102,552	24,151	45.65
2022	Elsewhere	6+ years	5,367,269	74,726	71.83
2022	unlinked	<1 year	3,077,803	73,516	41.87
2022	unlinked	1-2 years	2,062,815	44,260	46.61
2022	unlinked	3-5 years	2,561,069	58,689	43.64
2022	unlinked	6+ years	24,213,997	381,332	63.50
2023	Born in UK	<1 year	1,859,832	25,859	71.92
2023	Born in UK	1-2 years	7,327,963	131,249	55.83
2023	Born in UK	3-5 years	11,398,752	212,501	53.64
2023	Born in UK	6+ years	124,687,759	1,603,348	77.77
2023	Elsewhere	<1 year	143,428	3,067	46.76
2023	Elsewhere	1-2 years	664,149	18,226	36.44
2023	Elsewhere	3-5 years	1,122,688	25,415	44.17
2023	Elsewhere	6+ years	5,682,150	79,197	71.75
2023	unlinked	<1 year	3,870,566	97,182	39.83
2023	unlinked	1-2 years	3,598,859	86,334	41.69
2023	unlinked	3-5 years	2,543,054	57,059	44.57
2023	unlinked	6+ years	24,544,940	379,264	64.72

Table 6 – Number of GP events, total person years of follow up and GP activity rates of the population of Wales registered to a SAIL providing GP by migrant status, grouped by continent, and continuous GP registration history.

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2014	Born in UK	<1 year	2,722,409	62,911	43.27
2014	Born in UK	1-2 years	3,563,150	103,889	34.30
2014	Born in UK	3-5 years	4,209,446	131,210	32.08
2014	Born in UK	6+ years	80,007,811	1,419,741	56.35
2014	Africa	<1 year	33,580	811	41.39
2014	Africa	1-2 years	54,125	1,243	43.54
2014	Africa	3-5 years	66,229	1,623	40.81
2014	Africa	6+ years	378,886	6,537	57.96
2014	Asia	<1 year	69,678	1,726	40.38
2014	Asia	1-2 years	120,998	3,012	40.17
2014	Asia	3-5 years	162,909	3,898	41.80
2014	Asia	6+ years	1,108,378	17,912	61.88
2014	Europe	<1 year	115,884	3,875	29.91
2014	Europe	1-2 years	145,330	4,864	29.88
2014	Europe	3-5 years	190,579	5,776	33.00
2014	Europe	6+ years	1,171,343	19,860	58.98
2014	North America	<1 year	10,043	247	40.73
2014	North America	1-2 years	16,146	354	45.67
2014	North America	3-5 years	17,632	419	42.11
2014	North America	6+ years	176,896	2,830	62.50
2014	Oceania	<1 year	6,921	216	32.00
2014	Oceania	1-2 years	10,011	334	29.93
2014	Oceania	3-5 years	9,183	342	26.88
2014	Oceania	6+ years	79,622	1,643	48.46
2014	South America	<1 year	2,636	53	49.51
2014	South America	1-2 years	3,032	83	36.41
2014	South America	3-5 years	5,258	121	43.42
2014	South America	6+ years	28,420	526	54.06

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2014	unlinked	<1 year	2,059,667	50,271	40.97
2014	unlinked	1-2 years	2,488,732	64,431	38.63
2014	unlinked	3-5 years	2,477,361	59,575	41.58
2014	unlinked	6+ years	49,890,136	609,918	81.80
2015	Born in UK	<1 year	2,619,758	61,416	42.66
2015	Born in UK	1-2 years	4,125,937	111,663	36.95
2015	Born in UK	3-5 years	4,843,644	142,443	34.00
2015	Born in UK	6+ years	83,783,066	1,447,067	57.90
2015	Africa	<1 year	40,342	869	46.43
2015	Africa	1-2 years	56,517	1,315	42.96
2015	Africa	3-5 years	69,604	1,673	41.60
2015	Africa	6+ years	408,806	6,966	58.69
2015	Asia	<1 year	80,558	1,969	40.92
2015	Asia	1-2 years	125,774	3,063	41.06
2015	Asia	3-5 years	169,925	4,034	42.12
2015	Asia	6+ years	1,192,458	18,997	62.77
2015	Europe	<1 year	103,546	3,632	28.51
2015	Europe	1-2 years	185,235	6,018	30.78
2015	Europe	3-5 years	194,653	5,988	32.51
2015	Europe	6+ years	1,260,884	21,526	58.57
2015	North America	<1 year	12,481	266	46.93
2015	North America	1-2 years	17,808	409	43.50
2015	North America	3-5 years	19,327	428	45.12
2015	North America	6+ years	182,939	2,942	62.19
2015	Oceania	<1 year	6,961	270	25.82
2015	Oceania	1-2 years	10,316	379	27.19
2015	Oceania	3-5 years	11,029	390	28.25
2015	Oceania	6+ years	83,513	1,702	49.06
2015	South America	<1 year	2,394	69	34.61
2015	South America	1-2 years	4,075	89	45.86

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2015	South America	3-5 years	5,497	118	46.74
2015	South America	6+ years	31,134	556	55.98
2015	unlinked	<1 year	1,852,482	48,191	38.44
2015	unlinked	1-2 years	2,617,763	66,739	39.22
2015	unlinked	3-5 years	2,637,078	63,086	41.80
2015	unlinked	6+ years	46,840,383	580,632	80.67
2016	Born in UK	<1 year	3,249,233	71,173	45.65
2016	Born in UK	1-2 years	4,997,424	122,641	40.75
2016	Born in UK	3-5 years	5,172,985	146,987	35.19
2016	Born in UK	6+ years	89,706,043	1,477,187	60.73
2016	Africa	<1 year	36,252	871	41.64
2016	Africa	1-2 years	69,093	1,528	45.21
2016	Africa	3-5 years	75,243	1,657	45.42
2016	Africa	6+ years	448,319	7,385	60.70
2016	Asia	<1 year	82,569	2,055	40.18
2016	Asia	1-2 years	148,593	3,418	43.47
2016	Asia	3-5 years	181,881	4,123	44.12
2016	Asia	6+ years	1,306,725	20,022	65.27
2016	Europe	<1 year	119,054	4,106	29.00
2016	Europe	1-2 years	212,387	6,778	31.33
2016	Europe	3-5 years	216,873	6,449	33.63
2016	Europe	6+ years	1,390,559	23,075	60.26
2016	North America	<1 year	11,186	262	42.73
2016	North America	1-2 years	21,897	476	46.04
2016	North America	3-5 years	24,205	488	49.55
2016	North America	6+ years	197,140	3,021	65.25
2016	Oceania	<1 year	7,425	287	25.90
2016	Oceania	1-2 years	12,377	447	27.68
2016	Oceania	3-5 years	13,264	443	29.96
2016	Oceania	6+ years	91,647	1,804	50.80

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2016	South America	<1 year	3,515	86	41.07
2016	South America	1-2 years	5,443	105	51.74
2016	South America	3-5 years	4,379	114	38.41
2016	South America	6+ years	34,345	583	58.87
2016	unlinked	<1 year	2,039,539	48,981	41.64
2016	unlinked	1-2 years	2,843,350	68,832	41.31
2016	unlinked	3-5 years	2,596,483	63,049	41.18
2016	unlinked	6+ years	44,346,150	553,136	80.17
2017	Born in UK	<1 year	3,572,715	74,006	48.28
2017	Born in UK	1-2 years	5,482,030	129,682	42.27
2017	Born in UK	3-5 years	6,051,111	157,911	38.32
2017	Born in UK	6+ years	94,292,834	1,498,280	62.93
2017	Africa	<1 year	48,785	1,152	42.34
2017	Africa	1-2 years	70,898	1,542	45.97
2017	Africa	3-5 years	86,530	1,809	47.83
2017	Africa	6+ years	490,068	7,692	63.71
2017	Asia	<1 year	129,805	2,933	44.26
2017	Asia	1-2 years	156,383	3,684	42.45
2017	Asia	3-5 years	193,774	4,229	45.82
2017	Asia	6+ years	1,415,741	20,862	67.86
2017	Europe	<1 year	141,706	4,546	31.17
2017	Europe	1-2 years	217,394	6,823	31.86
2017	Europe	3-5 years	268,784	7,718	34.83
2017	Europe	6+ years	1,503,685	24,506	61.36
2017	North America	<1 year	13,894	349	39.82
2017	North America	1-2 years	22,836	489	46.66
2017	North America	3-5 years	27,657	543	50.90
2017	North America	6+ years	207,951	3,113	66.81
2017	Oceania	<1 year	11,686	371	31.50
2017	Oceania	1-2 years	12,745	495	25.75

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2017	Oceania	3-5 years	16,759	498	33.68
2017	Oceania	6+ years	98,202	1,898	51.74
2017	South America	<1 year	4,053	103	39.52
2017	South America	1-2 years	5,845	142	41.12
2017	South America	3-5 years	5,308	120	44.12
2017	South America	6+ years	36,803	605	60.79
2017	unlinked	<1 year	2,001,552	48,141	41.58
2017	unlinked	1-2 years	2,832,703	67,048	42.25
2017	unlinked	3-5 years	2,755,024	64,994	42.39
2017	unlinked	6+ years	40,777,123	519,864	78.44
2018	Born in UK	<1 year	4,395,972	87,061	50.49
2018	Born in UK	1-2 years	6,372,152	140,874	45.23
2018	Born in UK	3-5 years	6,578,447	160,756	40.92
2018	Born in UK	6+ years	98,505,186	1,506,121	65.40
2018	Africa	<1 year	60,433	1,316	45.93
2018	Africa	1-2 years	77,846	1,764	44.13
2018	Africa	3-5 years	91,417	1,803	50.69
2018	Africa	6+ years	517,573	7,870	65.77
2018	Asia	<1 year	141,331	3,220	43.90
2018	Asia	1-2 years	200,393	4,438	45.16
2018	Asia	3-5 years	207,439	4,362	47.56
2018	Asia	6+ years	1,486,498	21,215	70.07
2018	Europe	<1 year	157,101	4,916	31.95
2018	Europe	1-2 years	250,300	7,506	33.35
2018	Europe	3-5 years	296,286	8,275	35.80
2018	Europe	6+ years	1,609,854	25,636	62.80
2018	North America	<1 year	20,314	459	44.29
2018	North America	1-2 years	24,307	558	43.56
2018	North America	3-5 years	29,267	601	48.73
2018	North America	6+ years	226,421	3,156	71.75

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2018	Oceania	<1 year	10,383	356	29.16
2018	Oceania	1-2 years	17,126	588	29.15
2018	Oceania	3-5 years	18,375	570	32.24
2018	Oceania	6+ years	104,544	1,970	53.07
2018	South America	<1 year	5,105	117	43.76
2018	South America	1-2 years	7,111	178	39.98
2018	South America	3-5 years	6,648	131	50.57
2018	South America	6+ years	38,998	615	63.44
2018	unlinked	<1 year	2,050,130	47,605	43.07
2018	unlinked	1-2 years	2,839,185	65,970	43.04
2018	unlinked	3-5 years	2,613,827	62,718	41.68
2018	unlinked	6+ years	36,708,111	481,321	76.27
2019	Born in UK	<1 year	3,761,876	76,620	49.10
2019	Born in UK	1-2 years	7,673,127	157,169	48.82
2019	Born in UK	3-5 years	8,139,504	178,922	45.49
2019	Born in UK	6+ years	104,386,352	1,521,867	68.59
2019	Africa	<1 year	62,292	1,417	43.95
2019	Africa	1-2 years	104,372	2,196	47.52
2019	Africa	3-5 years	98,089	1,959	50.08
2019	Africa	6+ years	558,593	8,059	69.31
2019	Asia	<1 year	143,491	3,497	41.04
2019	Asia	1-2 years	262,843	5,491	47.87
2019	Asia	3-5 years	225,187	4,679	48.12
2019	Asia	6+ years	1,593,253	21,917	72.69
2019	Europe	<1 year	168,527	5,036	33.46
2019	Europe	1-2 years	291,363	8,232	35.39
2019	Europe	3-5 years	352,895	9,302	37.94
2019	Europe	6+ years	1,739,152	27,124	64.12
2019	North America	<1 year	21,066	470	44.84
2019	North America	1-2 years	32,849	727	45.16

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2019	North America	3-5 years	32,611	645	50.54
2019	North America	6+ years	243,926	3,229	75.54
2019	Oceania	<1 year	12,975	396	32.73
2019	Oceania	1-2 years	20,969	653	32.13
2019	Oceania	3-5 years	20,151	635	31.74
2019	Oceania	6+ years	114,533	2,076	55.17
2019	South America	<1 year	7,053	164	42.88
2019	South America	1-2 years	8,725	192	45.42
2019	South America	3-5 years	7,562	167	45.32
2019	South America	6+ years	42,103	631	66.73
2019	unlinked	<1 year	1,537,286	38,412	40.02
2019	unlinked	1-2 years	2,841,666	64,970	43.74
2019	unlinked	3-5 years	2,787,308	64,195	43.42
2019	unlinked	6+ years	32,711,569	447,547	73.09
2020	Born in UK	<1 year	3,413,819	77,266	44.18
2020	Born in UK	1-2 years	6,864,058	160,587	42.74
2020	Born in UK	3-5 years	7,763,677	189,976	40.87
2020	Born in UK	6+ years	95,224,254	1,552,951	61.32
2020	Africa	<1 year	64,078	1,791	35.77
2020	Africa	1-2 years	99,662	2,509	39.72
2020	Africa	3-5 years	92,976	2,243	41.45
2020	Africa	6+ years	529,085	8,540	61.95
2020	Asia	<1 year	135,203	4,261	31.73
2020	Asia	1-2 years	225,306	6,134	36.73
2020	Asia	3-5 years	225,837	5,732	39.40
2020	Asia	6+ years	1,462,038	23,007	63.55
2020	Europe	<1 year	141,657	5,290	26.78
2020	Europe	1-2 years	269,307	8,712	30.91
2020	Europe	3-5 years	311,776	9,746	31.99
2020	Europe	6+ years	1,636,007	29,772	54.95

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2020	North America	<1 year	21,999	612	35.95
2020	North America	1-2 years	34,222	828	41.31
2020	North America	3-5 years	31,785	747	42.57
2020	North America	6+ years	227,796	3,389	67.22
2020	Oceania	<1 year	12,564	399	31.51
2020	Oceania	1-2 years	19,476	680	28.65
2020	Oceania	3-5 years	21,996	756	29.10
2020	Oceania	6+ years	108,294	2,225	48.68
2020	South America	<1 year	5,511	196	28.19
2020	South America	1-2 years	10,281	251	40.91
2020	South America	3-5 years	7,851	215	36.59
2020	South America	6+ years	37,768	647	58.36
2020	unlinked	<1 year	1,184,119	35,842	33.04
2020	unlinked	1-2 years	2,037,073	57,848	35.21
2020	unlinked	3-5 years	2,259,392	62,213	36.32
2020	unlinked	6+ years	24,874,895	417,355	59.60
2021	Born in UK	<1 year	5,110,914	86,863	58.84
2021	Born in UK	1-2 years	7,562,747	148,970	50.77
2021	Born in UK	3-5 years	11,308,465	213,639	52.93
2021	Born in UK	6+ years	118,018,062	1,572,458	75.05
2021	Africa	<1 year	91,266	1,875	48.68
2021	Africa	1-2 years	133,729	2,898	46.15
2021	Africa	3-5 years	143,724	2,694	53.34
2021	Africa	6+ years	674,751	8,947	75.41
2021	Asia	<1 year	190,123	4,798	39.63
2021	Asia	1-2 years	305,181	6,894	44.27
2021	Asia	3-5 years	359,221	6,718	53.47
2021	Asia	6+ years	1,876,326	24,094	77.87
2021	Europe	<1 year	191,096	4,890	39.08
2021	Europe	1-2 years	357,406	9,018	39.63

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2021	Europe	3-5 years	468,374	10,863	43.12
2021	Europe	6+ years	2,155,025	31,798	67.77
2021	North America	<1 year	28,866	610	47.32
2021	North America	1-2 years	46,340	971	47.73
2021	North America	3-5 years	47,354	892	53.11
2021	North America	6+ years	287,273	3,518	81.65
2021	Oceania	<1 year	16,202	373	43.38
2021	Oceania	1-2 years	29,745	715	41.63
2021	Oceania	3-5 years	32,945	827	39.85
2021	Oceania	6+ years	143,854	2,381	60.43
2021	South America	<1 year	9,456	202	46.88
2021	South America	1-2 years	15,335	328	46.80
2021	South America	3-5 years	13,425	250	53.76
2021	South America	6+ years	50,796	675	75.27
2021	unlinked	<1 year	1,339,500	27,606	48.52
2021	unlinked	1-2 years	1,813,697	47,545	38.15
2021	unlinked	3-5 years	2,586,020	61,999	41.71
2021	unlinked	6+ years	24,021,502	386,940	62.08
2022	Born in UK	<1 year	2,826,207	54,583	51.78
2022	Born in UK	1-2 years	8,498,834	154,839	54.89
2022	Born in UK	3-5 years	11,551,291	214,354	53.89
2022	Born in UK	6+ years	121,610,003	1,586,520	76.65
2022	Africa	<1 year	52,232	1,528	34.19
2022	Africa	1-2 years	138,600	3,113	44.52
2022	Africa	3-5 years	154,318	3,089	49.96
2022	Africa	6+ years	698,516	9,196	75.96
2022	Asia	<1 year	107,828	4,026	26.79
2022	Asia	1-2 years	298,359	7,183	41.54
2022	Asia	3-5 years	387,814	7,650	50.70
2022	Asia	6+ years	1,935,136	24,843	77.90

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2022	Europe	<1 year	124,333	4,590	27.09
2022	Europe	1-2 years	317,263	8,604	36.88
2022	Europe	3-5 years	460,620	11,208	41.10
2022	Europe	6+ years	2,236,884	33,854	66.07
2022	North America	<1 year	17,009	489	34.81
2022	North America	1-2 years	46,501	1,046	44.47
2022	North America	3-5 years	50,021	1,007	49.68
2022	North America	6+ years	296,951	3,582	82.90
2022	Oceania	<1 year	10,843	368	29.48
2022	Oceania	1-2 years	25,255	665	38.00
2022	Oceania	3-5 years	34,140	902	37.83
2022	Oceania	6+ years	144,206	2,519	57.25
2022	South America	<1 year	4,227	177	23.82
2022	South America	1-2 years	13,429	331	40.59
2022	South America	3-5 years	15,639	295	53.03
2022	South America	6+ years	55,576	733	75.80
2022	unlinked	<1 year	3,077,803	73,516	41.87
2022	unlinked	1-2 years	2,062,815	44,260	46.61
2022	unlinked	3-5 years	2,561,069	58,689	43.64
2022	unlinked	6+ years	24,213,997	381,332	63.50
2023	Born in UK	<1 year	1,859,832	25,859	71.92
2023	Born in UK	1-2 years	7,327,963	131,249	55.83
2023	Born in UK	3-5 years	11,398,752	212,501	53.64
2023	Born in UK	6+ years	124,687,759	1,603,348	77.77
2023	Africa	<1 year	26,001	473	55.00
2023	Africa	1-2 years	113,245	2,640	42.89
2023	Africa	3-5 years	171,246	3,439	49.80
2023	Africa	6+ years	739,397	9,702	76.21
2023	Asia	<1 year	47,979	1,009	47.54
2023	Asia	1-2 years	220,807	6,224	35.48

Year	Country of birth (grouped by continent)	GP registration time	Number of GP events	Total person-years of follow up	Rate of GP events per person-year
2023	Asia	3-5 years	389,846	8,111	48.06
2023	Asia	6+ years	2,065,578	26,281	78.60
2023	Europe	<1 year	56,484	1,329	42.51
2023	Europe	1-2 years	261,159	7,585	34.43
2023	Europe	3-5 years	455,066	11,450	39.74
2023	Europe	6+ years	2,364,659	36,017	65.65
2023	North America	<1 year	8,888	125	71.21
2023	North America	1-2 years	36,148	858	42.13
2023	North America	3-5 years	54,907	1,156	47.49
2023	North America	6+ years	303,396	3,705	81.89
2023	Oceania	<1 year	2,648	87	30.44
2023	Oceania	1-2 years	21,554	620	34.75
2023	Oceania	3-5 years	35,342	900	39.26
2023	Oceania	6+ years	152,668	2,715	56.23
2023	South America	<1 year	1,428	45	31.97
2023	South America	1-2 years	11,236	299	37.57
2023	South America	3-5 years	16,281	358	45.50
2023	South America	6+ years	56,452	776	72.77
2023	unlinked	<1 year	3,870,566	97,182	39.83
2023	unlinked	1-2 years	3,598,859	86,334	41.69
2023	unlinked	3-5 years	2,543,054	57,059	44.57
2023	unlinked	6+ years	24,544,940	379,264	64.72

Acknowledgements

This Data Insight has been produced by the ADR Wales Social Justice research team. It provides a snapshot of informative research currently underway at ADR Wales but is not intended to provide a complete picture of work undertaken within this field or the ADR Wales programme of work. The information presented in this Data Insight has been reviewed by ADR Wales colleagues with expertise within this thematic area and is accepted to be accurate at the point of publication. Views expressed in this Data Insight are those of the researchers and not necessarily those of ADR Wales partner organisations.

This study makes use of anonymised data held in the Secure Anonymised Information Linkage (SAIL) Databank. We would like to acknowledge all the data providers and people who make anonymised data available for research. The authors would like to extend their gratitude and acknowledgement to the NHS, the SAIL Consumer panel as well as the Information Governance Review Panel IGRP who approved this project (SAIL project number 1650). Further details of this process can be found on the SAIL Databank website (saildatabank.com).

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ADR Wales unites specialists from Swansea University Medical School and the Wales Institute of Social and Economic Research and Data (WISERD) at Cardiff University with specialist teams within the Welsh Government. The cutting-edge data analysis techniques and research excellence developed, along with the world renowned SAIL Databank – which is an accredited processor under the 2017 Digital Economy Act (DEA) – allow the delivery of robust, secure and informative research that can inform future policy decisions in Wales. The ADR Wales programme of work is aligned to the priority themes as identified in the Welsh Government’s Programme for Government. ADR Wales is part of the Economic and Social Research Council (part of UK Research and Innovation) funded ADR UK (grant ES/W012227/1).

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