

Pneumococcal polysaccharide vaccination (PPV) uptake in Wales in 2023/24

Annual Report

Key Points

- Uptake of pneumococcal vaccine in people aged two to 64 years in a clinical risk group was 37.4% during 2023/24. Uptake ranged from 31.1% in Cwm Taf Morgannwg UHB to 46.8% in Betsi Cadwaladr UHB.
- Uptake of pneumococcal vaccine in people aged 65 years and over was 65.0%. Uptake ranged from 59.8% in Swansea Bay UHB to 70.5% in Betsi Cadwaladr UHB.
- For those aged 65 and over, uptake increased with age (and time since eligibility). Uptake in those turning 65 was 31.1% whilst over 76% of those aged 75 and over were vaccinated.
- Amongst patients aged two to 64 years in a clinical risk group was highest in patients with a cochlear implant (73.6%), followed by patients with chronic respiratory disease (49.4%). Uptake was lowest in patients with chronic heart disease (29.8%).
- There are notable variations in uptake between and within health boards, especially in those under 65 years of age in clinical risk groups.

Background

The pneumococcal polysaccharide vaccination (PPV) is currently offered to those aged 65 years and older and people aged two to 64 years in select clinical risk groups. PPV protects against 23 serotypes of *Streptococcus pneumoniae* that can cause pneumonia or serious invasive infections.

Data are presented by Local Authority/Health Board of GP and are based on all general practices in Wales as at end March 2024. All ages in this report are as at March 2024.

Data from three practices were excluded from this report due to data quality.



Figure 1: Pneumococcal vaccine coverage, by age group, data as at March 2024

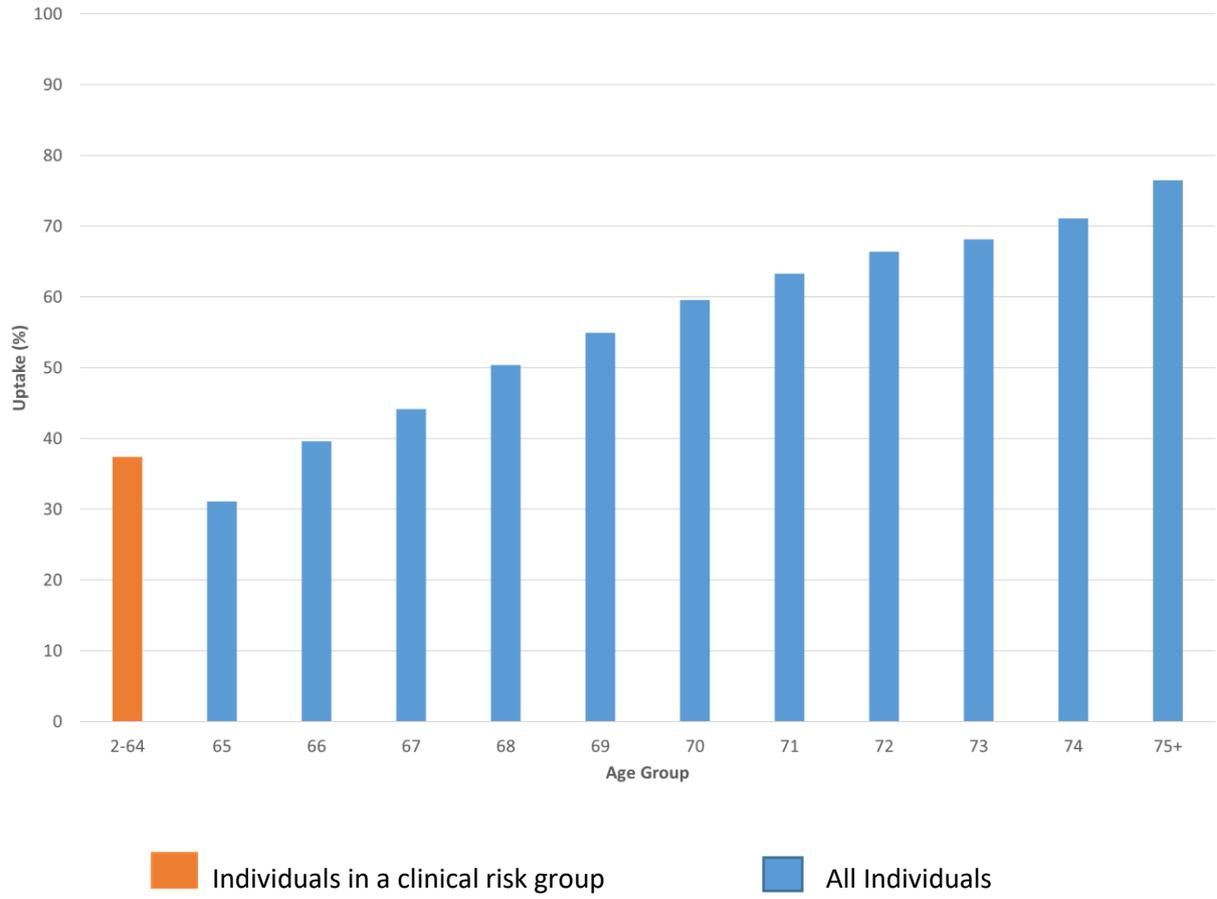


Figure 2. Box and whisker plot showing distribution of practice pneumococcal immunisation uptake (%) in patients aged 2-64years in a clinical risk group, by health board; Wales

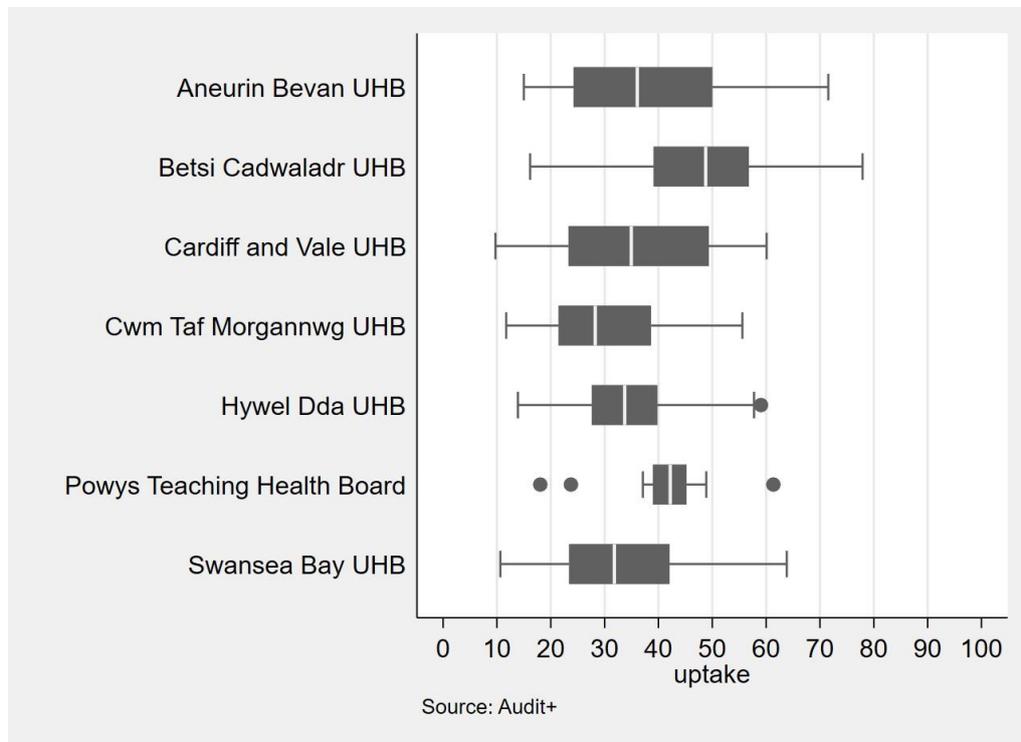


Figure 3. Box and whisker plot showing distribution of practice pneumococcal immunisation uptake (%) in patients aged 65 years and over, by health board; Wales

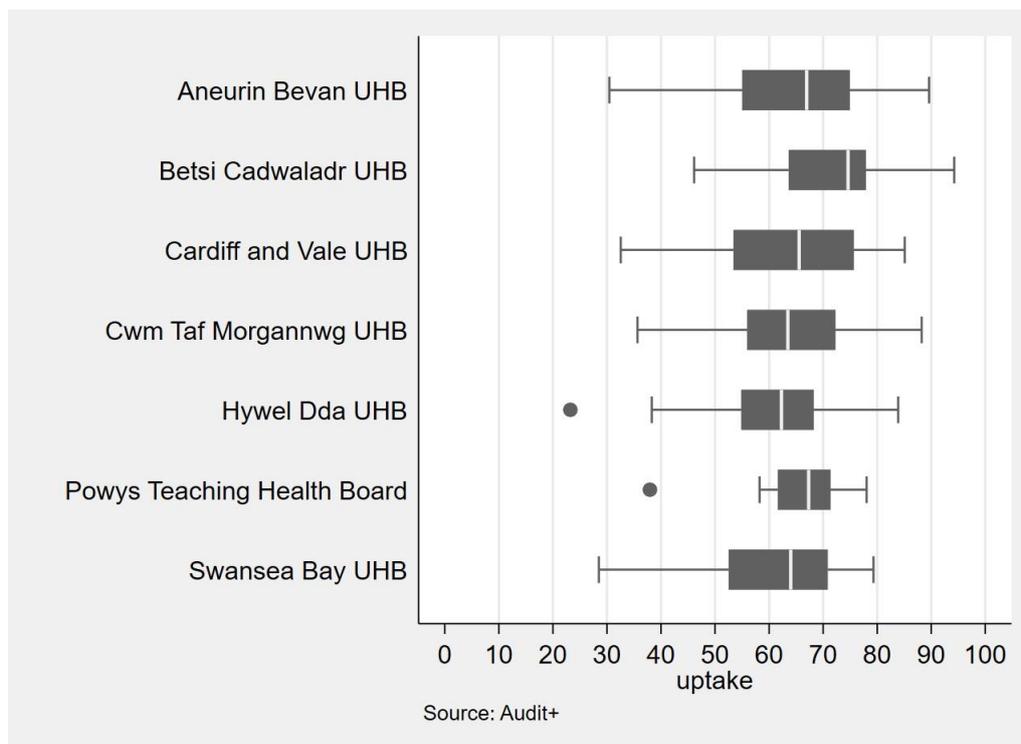




Table 1: Pneumococcal vaccine coverage, by health board and local authority, data as at March 2024

Local Authority	Patients aged 65+			Patients in clinical at-risk group aged 2-64 years		
	n	d	%	n	d	%
Aneurin Bevan ULHB	81,802	126,275	64.8	16,426	44,560	36.9
Blaenau Gwent	8,864	14,804	59.9	2,179	5,973	36.5
Caerphilly	25,018	38,098	65.7	4,887	13,213	37.0
Monmouthshire	17,877	26,869	66.5	2,852	6,747	42.3
Newport	18,568	27,960	66.4	3,882	11,565	33.6
Torfaen	11,475	18,544	61.9	2,626	7,062	37.2
Betsi Cadwaladr ULHB	118,724	168,357	70.5	21,863	46,721	46.8
Anglesey	12,527	17,796	70.4	2,109	4,336	48.6
Conwy	21,551	31,922	67.5	3,131	7,479	41.9
Denbighshire	17,366	25,354	68.5	3,085	7,371	41.9
Flintshire	25,450	33,454	76.1	5,266	10,295	51.2
Gwynedd	18,859	28,776	65.5	3,226	7,340	44.0
Wrexham	22,971	31,055	74.0	5,046	9,900	51.0
Cardiff & Vale ULHB	57,293	86,989	65.9	11,734	31,746	37.0
Cardiff	37,945	57,568	65.9	8,966	23,539	38.1
Vale of Glamorgan	19,348	29,421	65.8	2,768	8,207	33.7
Cwm Taf Morgannwg ULHB	60,252	94,051	64.1	10,328	33,186	31.1
Bridgend	23,338	34,479	67.7	3,992	11,756	34.0
Merthyr Tydfil	5,469	9,458	57.8	1,052	3,814	27.6
Rhondda Cynon Taf	31,445	50,114	62.7	5,284	17,616	30.0
Hywel Dda ULHB	61,542	101,659	60.5	8,939	26,564	33.7
Carmarthenshire	26,956	44,811	60.2	3,770	12,362	30.5
Ceredigion	13,299	24,478	54.3	1,720	5,647	30.5
Pembrokeshire	21,287	32,370	65.8	3,449	8,555	40.3
Powys Teaching LHB	25,932	39,554	65.6	3,709	9,051	41.0
Powys	25,932	39,554	65.6	3,709	9,051	41.0
Swansea Bay ULHB	49,794	83,240	59.8	8,824	26,925	32.8
Neath Port Talbot	18,088	30,718	58.9	3,122	10,227	30.5
Swansea	31,706	52,522	60.4	5,702	16,698	34.1
Wales	455,339	700,125	65.0	81,823	218,753	37.4

Table 2a: Pneumococcal vaccine coverage for those at risk, by health board and local authority, as at March 2024

Local Authority	Patients in asplenia at risk group			Patients in cerebrospinal fluid leak at-risk group			Patients in chronic heart disease at-risk group		
	n	d	%	n	d	%	n	d	%
Aneurin Bevan ULHB	1,092	2,861	38.2	59	184	32.1	4,115	14,187	29.0
Blaenau Gwent	96	319	30.1	<10	27	22.2	548	1,857	29.5
Caerphilly	328	809	40.5	28	68	41.2	1,286	4,215	30.5
Monmouthshire	245	568	43.1	<10	30	26.7	718	2,476	29.0
Newport	247	695	35.5	<10	28	14.3	889	3,373	26.4
Torfaen	176	470	37.4	13	31	41.9	674	2,266	29.7
Betsi Cadwaladr ULHB	1,392	3,066	45.4	135	305	44.3	5,737	15,115	38.0
Anglesey	138	268	51.5	10	30	33.3	482	1,294	37.2
Conwy	211	529	39.9	24	54	44.4	820	2,468	33.2
Denbighshire	183	464	39.4	22	46	47.8	837	2,408	34.8
Flintshire	348	659	52.8	33	67	49.3	1,428	3,421	41.7
Gwynedd	203	527	38.5	14	41	34.1	786	2,246	35.0
Wrexham	309	619	49.9	32	67	47.8	1,384	3,278	42.2
Cardiff & Vale ULHB	922	2,355	39.2	37	167	22.2	2,707	9,929	27.3
Cardiff	648	1,742	37.2	25	111	22.5	2,021	7,217	28.0
Vale of Glamorgan	274	613	44.7	12	56	21.4	686	2,712	25.3
Cwm Taf Morgannwg ULHB	642	1,883	34.1	40	181	22.1	2,822	11,298	25.0
Bridgend	270	723	37.3	17	75	22.7	1,186	4,338	27.3
Merthyr Tydfil	59	180	32.8	<10	21	28.6	311	1,320	23.6
Rhondda Cynon Taf	313	980	31.9	17	85	20.0	1,325	5,640	23.5
Hywel Dda ULHB	607	1,579	38.4	42	150	28.0	2,634	9,444	27.9
Carmarthenshire	235	639	36.8	19	69	27.5	1,177	4,511	26.1
Ceredigion	139	412	33.7	<10	25	24.0	509	2,017	25.2
Pembrokeshire	233	528	44.1	17	56	30.4	948	2,916	32.5
Powys Teaching LHB	295	669	44.1	14	58	24.1	1,016	3,307	30.7
Powys	295	669	44.1	14	58	24.1	1,016	3,307	30.7
Swansea Bay ULHB	587	1,492	39.3	56	169	33.1	2,513	9,114	27.6
Neath Port Talbot	206	504	40.9	19	63	30.2	920	3,570	25.8
Swansea	381	988	38.6	37	106	34.9	1,593	5,544	28.7
Wales	5,537	13,905	39.8	383	1214	31.5	21,544	72,394	29.8



Table 2b: Pneumococcal vaccine coverage for those at risk, by health board and local authority, as at March 2024

Local Authority	Patients in chronic kidney disease at-risk group			Patients in chronic liver disease at-risk group			Patients in chronic respiratory disease at-risk		
	n	d	%	n	d	%	n	d	%
Aneurin Bevan ULHB	457	1,018	44.9	766	2,423	31.6	2,790	5,760	48.4
Blaenau Gwent	61	145	42.1	100	351	28.5	461	897	51.4
Caerphilly	121	299	40.5	204	700	29.1	776	1,686	46.0
Monmouthshire	87	135	64.4	153	367	41.7	409	698	58.6
Newport	110	276	39.9	180	609	29.6	647	1,457	44.4
Torfaen	78	163	47.9	129	396	32.6	497	1,022	48.6
Betsi Cadwaladr ULHB	615	1,110	55.4	1,093	2,839	38.5	3,854	6,893	55.9
Anglesey	52	105	49.5	102	232	44.0	383	681	56.2
Conwy	89	176	50.6	170	453	37.5	582	1,041	55.9
Denbighshire	72	150	48.0	173	476	36.3	605	1,222	49.5
Flintshire	136	219	62.1	252	643	39.2	813	1,370	59.3
Gwynedd	92	177	52.0	142	395	35.9	660	1,197	55.1
Wrexham	174	283	61.5	254	640	39.7	811	1,382	58.7
Cardiff & Vale ULHB	322	830	38.8	490	1,611	30.4	1,931	3,963	48.7
Cardiff	234	617	37.9	380	1,203	31.6	1,489	2,922	51.0
Vale of Glamorgan	88	213	41.3	110	408	27.0	442	1,041	42.5
Cwm Taf Morgannwg ULHB	322	839	38.4	484	1,982	24.4	2,046	4,773	42.9
Bridgend	119	288	41.3	156	592	26.4	689	1,454	47.4
Merthyr Tydfil	38	103	36.9	53	254	20.9	226	646	35.0
Rhondda Cynon Taf	165	448	36.8	275	1,136	24.2	1,131	2,673	42.3
Hywel Dda ULHB	265	664	39.9	419	1,448	28.9	1,738	3,611	48.1
Carmarthenshire	99	284	34.9	133	607	21.9	702	1,601	43.8
Ceredigion	62	149	41.6	87	317	27.4	350	775	45.2
Pembrokeshire	104	231	45.0	199	524	38.0	686	1,235	55.5
Powys Teaching LHB	99	218	45.4	189	468	40.4	629	1,198	52.5
Powys	99	218	45.4	189	468	40.4	629	1,198	52.5
Swansea Bay ULHB	248	648	38.3	516	1,897	27.2	1,783	3,685	48.4
Neath Port Talbot	98	239	41.0	158	632	25.0	629	1,424	44.2
Swansea	150	409	36.7	358	1,265	28.3	1,154	2,261	51.0
Wales	2,328	5,327	43.7	3,957	12,668	31.2	14,771	29,883	49.4

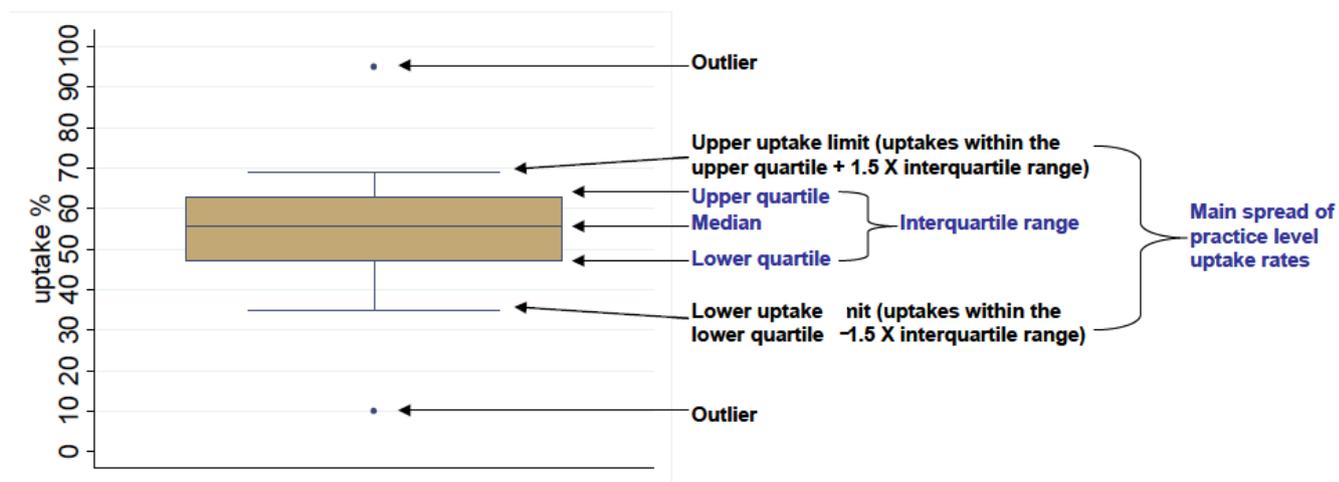


Table 2c: Pneumococcal vaccine coverage for those at risk, by health board and local authority, as at March 2024

Local Authority	Patients in diabetes at-risk group			Patients in immunosuppression at-risk			Patients in cochlear implant at-risk group		
	n	d	%	n	d	%	n	d	%
Aneurin Bevan ULHB	8,357	19,150	43.6	2,682	5,867	45.7	27	37	73.0
Blaenau Gwent	1,100	2,633	41.8	352	756	46.6	<10	<10	87.5
Caerphilly	2,589	5,942	43.6	669	1,534	43.6	<10	<10	87.5
Monmouthshire	1,338	2,424	55.2	542	1,013	53.5	<10	<10	57.1
Newport	2,090	5,374	38.9	596	1,469	40.6	<10	10	60.0
Torfaen	1,240	2,777	44.7	523	1,095	47.8	<10	<10	75.0
Betsi Cadwaladr ULHB	10,142	17,636	57.5	3,643	6,875	53.0	26	41	63.4
Anglesey	988	1,673	59.1	389	712	54.6	<10	<10	50.0
Conwy	1,367	2,773	49.3	534	1,095	48.8	<10	<10	71.4
Denbighshire	1,415	2,769	51.1	539	1,079	50.0	<10	<10	66.7
Flintshire	2,487	3,941	63.1	866	1,506	57.5	<10	<10	60.0
Gwynedd	1,464	2,648	55.3	556	1,162	47.8	<10	<10	62.5
Wrexham	2,421	3,832	63.2	759	1,321	57.5	<10	13	61.5
Cardiff & Vale ULHB	6,210	13,337	46.6	1,736	4,070	42.7	30	36	83.3
Cardiff	4,915	10,119	48.6	1,258	2,963	42.5	*	*	81.5
Vale of Glamorgan	1,295	3,218	40.2	478	1,107	43.2	*	*	88.9
Cwm Taf Morgannwg ULHB	5,403	14,067	38.4	1,180	3,487	33.8	20	25	80.0
Bridgend	2,051	4,821	42.5	414	1,174	35.3	*	*	92.3
Merthyr Tydfil	561	1,623	34.6	105	382	27.5	<10	<10	0.0
Rhondda Cynon Taf	2,791	7,623	36.6	661	1,931	34.2	<10	10	80.0
Hywel Dda ULHB	4,048	10,496	38.6	1,503	3,390	44.3	24	32	75.0
Carmarthenshire	1,747	5,041	34.7	590	1,517	38.9	14	19	73.7
Ceredigion	743	2,078	35.8	280	722	38.8	<10	<10	75.0
Pembrokeshire	1,558	3,377	46.1	633	1,151	55.0	<10	<10	77.8
Powys Teaching LHB	1,679	3,158	53.2	622	1,270	49.0	<10	<10	37.5
Powys	1,679	3,158	53.2	622	1,270	49.0	<10	<10	37.5
Swansea Bay ULHB	4,242	11,236	37.8	979	2,859	34.2	26	33	78.8
Neath Port Talbot	1,496	4,313	34.7	389	1,134	34.3	13	16	81.3
Swansea	2,746	6,923	39.7	590	1,725	34.2	13	17	76.5
Wales	40,081	89,080	45.0	12,345	27,818	44.4	156	212	73.6

(*): Masked to comply with statistical disclosure control.

Appendix 1. Notes on interpretation - Diagram of a box and whisker plot.



The figure above provides an illustration as to how the box and whisker plots are constructed.

The box and whisker plots above show the spread of uptake rates of practices within health board areas. The line inside the shaded box represents the median practice uptake rate (half of the health board practices have an uptake higher than the median value and half have an uptake lower than the median value). The shaded box represents the spread in uptake rates of the central 50% of practices, this is called the interquartile range (IQR). The whiskers extending above and below the shaded box represent the spread in practice uptake rates for the majority of practices within the health board. Any practices with uptake rates that are very different from the majority of practices within the health board are termed 'outliers' and appear as dots outside the whiskers.

Report prepared by Public Health Wales Vaccine Preventable Disease Programme and Communicable Disease Surveillance Centre. Data in this report were provided by general practices through the Audit+ platform, as at March 2024, using automated Read code searches developed by Digital Health and Care Wales Primary Care Team.