OpenSAFELY COVID Vaccine coverage report

OpenSAFELY is a new secure analytics platform for electronic patient records built on behalf of NHS England to deliver urgent academic and operational research during the pandemic.

This is our regular weekly report on COVID-19 vaccination coverage in England using data from 40% of general practices that use TPP electronic health record software. The data requires careful interpretation and there are a number of caveats. Please read the full detail about our methods and discussion of our earlier results (as of January 13th) in our preprint paper available here (https://www.medrxiv.org/content/10.1101/2021.01.25.21250356v2).

The full analytical methods behind the latest results in this report are available here (https://github.com/opensafely/nhs-covid-vaccination-uptake).

Report last updated 23 Feb 2021

Vaccinations included up to 17 Feb 2021 inclusive

Contents:

- Overview
- Summary Chart
- Trends in vaccination coverage according to demographic/clinical features, for:
 - 80+ population
 - 70-79 population
- · Current vaccination coverage of each eligible population group, according to demographic/clinical features

Overview of Vaccination Figures to date

As at 17 Feb 2021:

Total population vaccinated in TPP: 5,646,319

80+ population vaccinated: 1,059,499 (92.9% of 1,141,028)

70-79 population vaccinated: 1,906,492 (92.0% of 2,073,078)

care home population vaccinated: 75,159 (90.2% of 83,293)

shielding (aged 16-69) population vaccinated: 466,354 (57.6% of 809,634)

65-69 population vaccinated: 621,901 (57.9% of 1,073,989)

under 65s, not in other eligible groups shown population vaccinated: 1,516,907

Vaccine types and second doses:

Second doses (% of all vaccinated): 197,666 (3.5%)

Oxford-AZ vaccines (% of all first doses): 2,606,828 (46.2%)

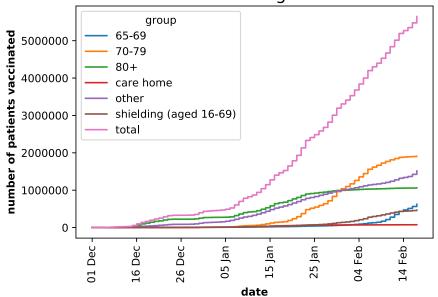
Notes

Patient counts are rounded to nearest 7

Patients are counted in their highest risk category only; e.g. a 65-year-old who is shielding is only counted in the shielding group, not in the 65-69 population

Summary Chart





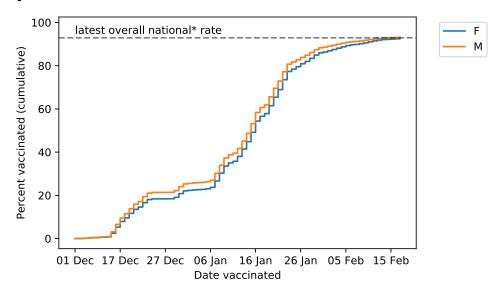
Trends in vaccination rates of 80+ population according to demographic/clinical features, cumulatively by day.

*National rate calculated as at latest date for vaccinations recorded across all TPP practices.

80+ population

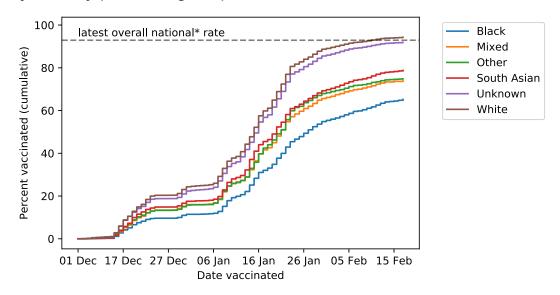
COVID vaccinations among 80+ population

by Sex



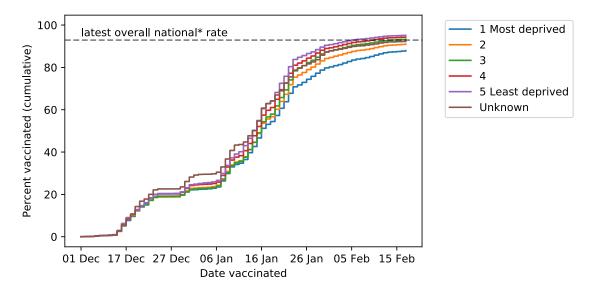
COVID vaccinations among 80+ population

by Ethnicity (broad categories)

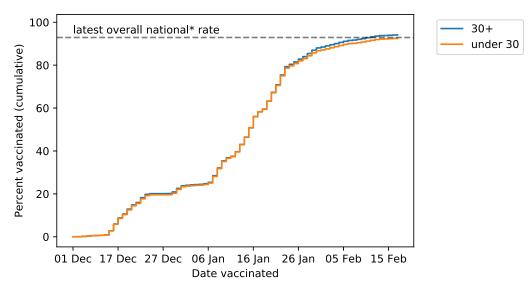


COVID vaccinations among 80+ population

by Index of Multiple Deprivation (quintiles)

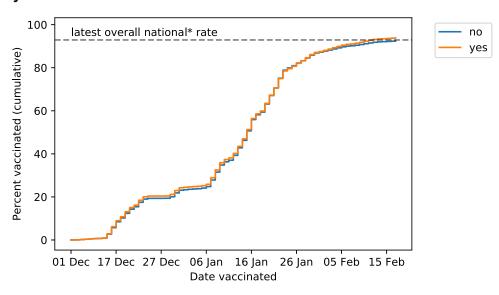


by BMI

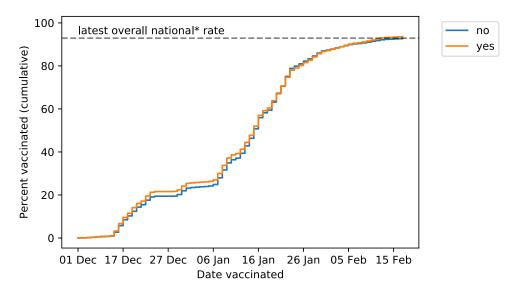


COVID vaccinations among 80+ population

by Chronic cardiac disease

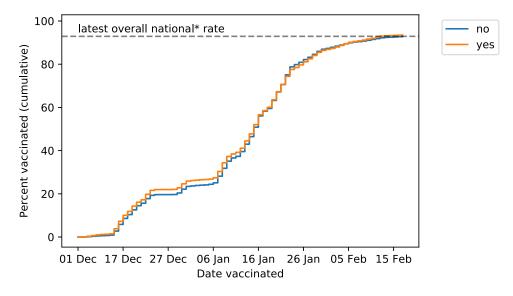


by Current COPD



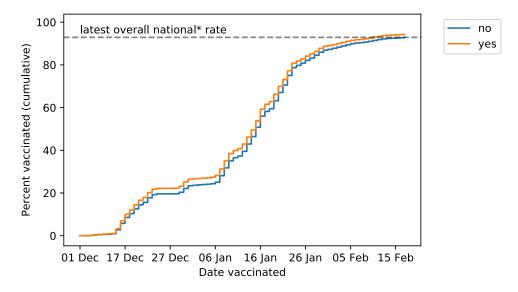
COVID vaccinations among 80+ population

by Cancer (lung)

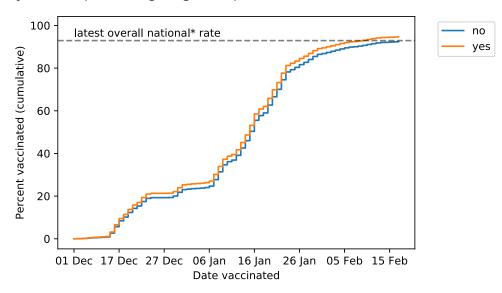


COVID vaccinations among 80+ population

by Cancer (haematological)

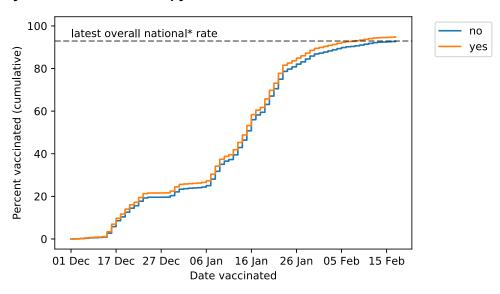


by Cancer (excluding lung/haem)

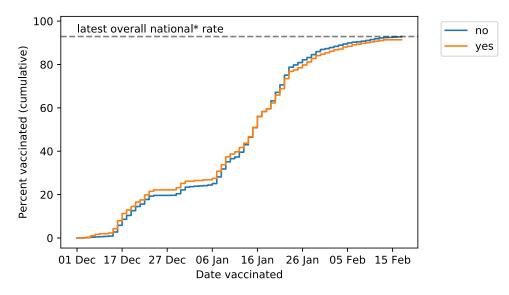


COVID vaccinations among 80+ population

by Chemo or radiotherapy

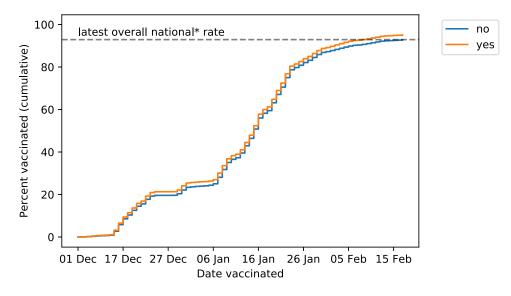


by Dialysis



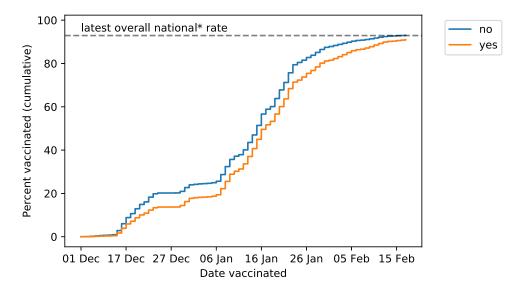
COVID vaccinations among 80+ population

by DMARDs

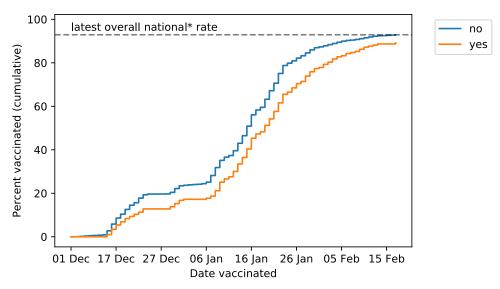


COVID vaccinations among 80+ population

by Dementia

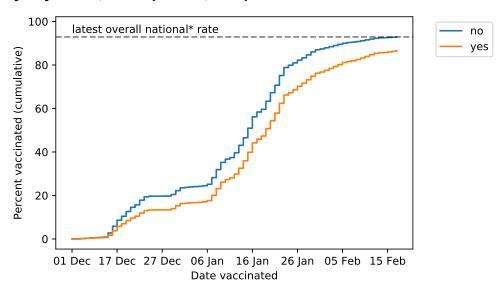


by Intellectual disability inc Down syndrome

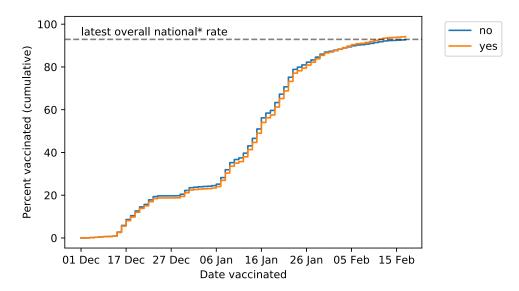


COVID vaccinations among 80+ population

by Psychosis, schizophrenia, or bipolar



by SSRI (last 12 months)



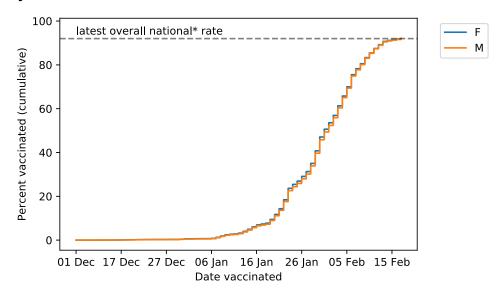
Trends in vaccination rates of 70-79 population according to demographic/clinical features, cumulatively by day.

*National rate calculated as at latest date for vaccinations recorded across all TPP practices.

70-79 population

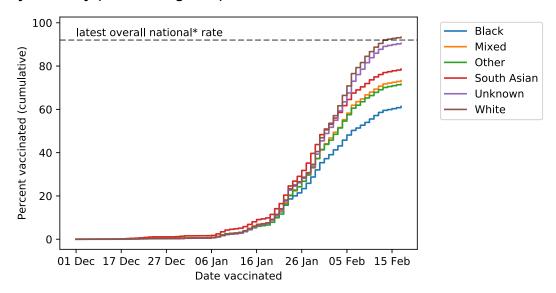
COVID vaccinations among 70-79 population

by Sex



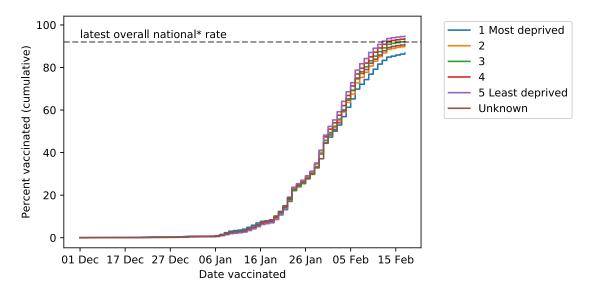
COVID vaccinations among 70-79 population

by Ethnicity (broad categories)

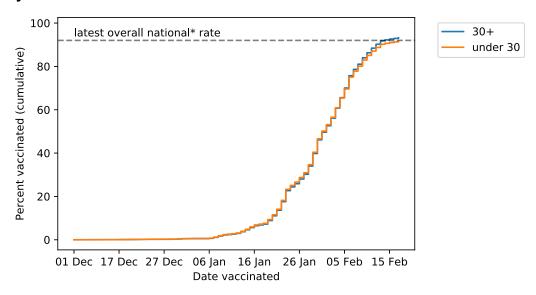


COVID vaccinations among 70-79 population

by Index of Multiple Deprivation (quintiles)

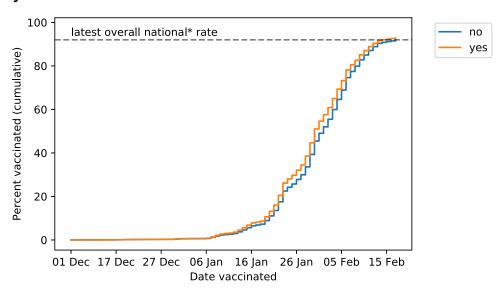


by BMI

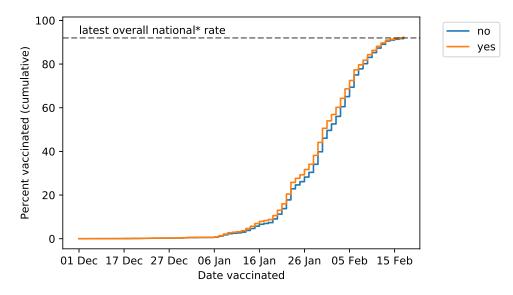


COVID vaccinations among 70-79 population

by Chronic cardiac disease

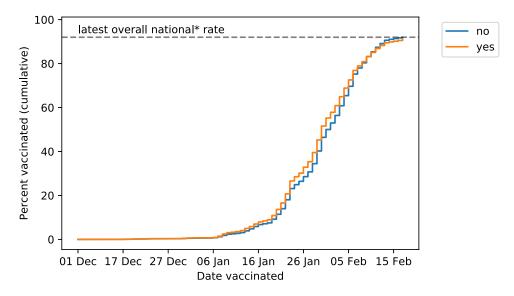


by Current COPD



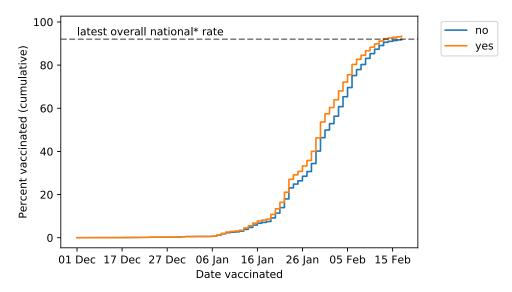
COVID vaccinations among 70-79 population

by Cancer (lung)

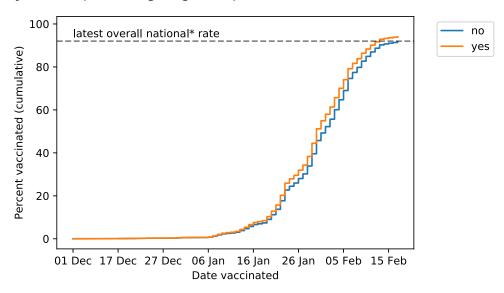


COVID vaccinations among 70-79 population

by Cancer (haematological)

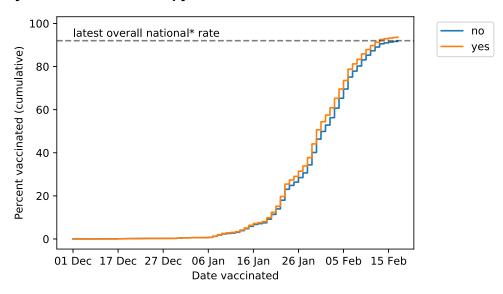


by Cancer (excluding lung/haem)

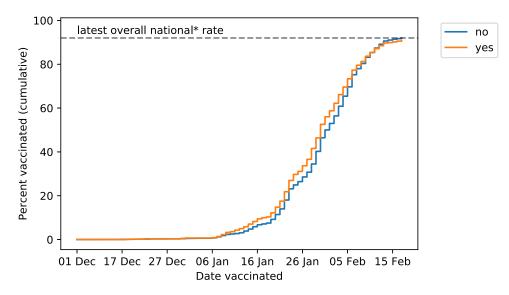


COVID vaccinations among 70-79 population

by Chemo or radiotherapy

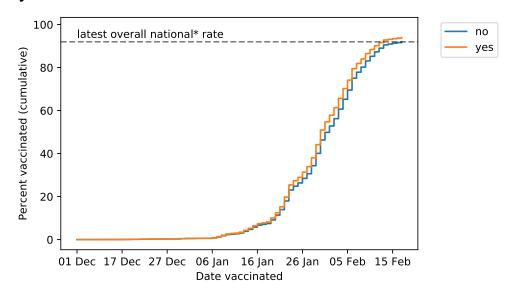


by Dialysis



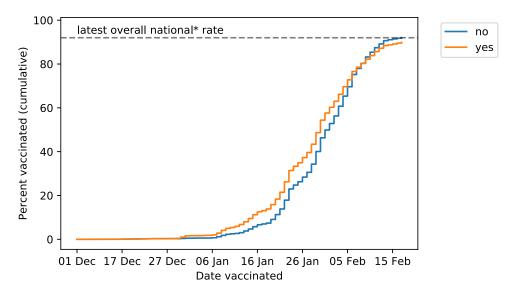
COVID vaccinations among 70-79 population

by DMARDs

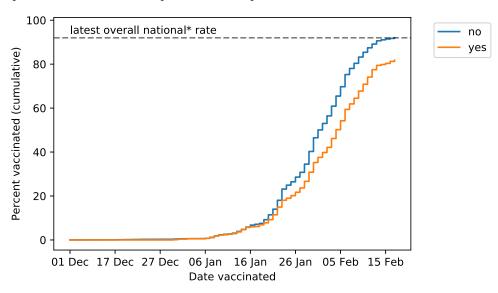


COVID vaccinations among 70-79 population

by Dementia

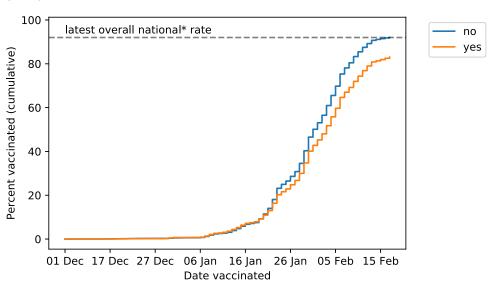


by Intellectual disability inc Down syndrome

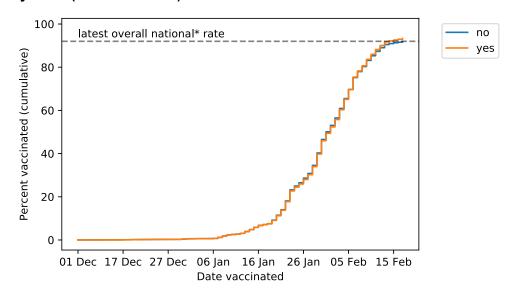


COVID vaccinations among 70-79 population

by Psychosis, schizophrenia, or bipolar



by SSRI (last 12 months)



Vaccination rates of each eligible population group, according to demographic/clinical features

Cumulative vaccination figures among 80+ population

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
overall	overall	1059498	92.9	1141028	91.5	1.4
Sex	F	611926	92.6	660884	91.0	1.6
	М	447566	93.2	480137	92.1	1.1
Age band	80-84	556612	93.6	594440	92.6	1.0
	85-89	331275	92.9	356664	91.5	1.4
	90+	171605	90.4	189910	88.0	2.4
Ethnicity (broad	Black	6503	65.2	9968	61.7	3.5
categories)	Mixed	2002	73.9	2709	71.6	2.3
	Other	4025	74.9	5376	73.2	1.7
	South Asian	20447	78.8	25935	76.2	2.6
	Unknown	291382	91.9	317163	90.5	1.4
	White	735126	94.3	779870	93.0	1.3
ethnicity 16 groups	African	1071	54.8	1953	52.0	2.8
	Bangladeshi or British Bangladeshi	819	69.2	1183	64.5	4.7
	Caribbean	4690	68.6	6832	64.9	3.7
	Chinese	1106	73.5	1505	72.1	1.4
	Other	2926	75.6	3871	73.6	2.0
	Other Asian	3115	77.1	4039	74.9	2.2
	British or Mixed British	693560	94.6	732837	93.4	1.2
	Indian or British Indian	11746	85.9	13671	84.0	1.9
	Irish	7322	91.1	8036	89.5	1.6
	Other Black	742	63.1	1176	60.1	3.0
	Other White	34244	87.8	39004	86.3	1.5
	Other mixed	630	77.6	812	75.0	2.6
	Pakistani or British Pakistani	4760	67.7	7035	63.8	3.9
	Unknown	291382	91.9	317163	90.5	1.4
	White + Asian	364	81.2	448	81.2	0.0
	White + Black African	217	62.0	350	60.0	2.0
	White + Black Caribbean	791	72.0	1099	68.8	3.2
Index of Multiple Deprivation (quintiles)	1 Most deprived	130739	87.9	148722	85.8	2.1
p(q,	2	174307	91.0	191520	89.4	1.6
	3	237405	93.3	254527	91.9	1.4
	4	247709	94.3	262668	93.2	1.1
	5 Least deprived	250803	95.2	263515	94.2	1.0
	Unknown	18529	92.4	20062	91.1	1.3
ВМІ	30+	186858	94.2	198415	92.8	1.4
	under 30	872634	92.6	942606	91.2	1.4
Chronic cardiac disease	no	740460	92.4	801024	91.1	1.3
	yes	319032	93.8	339997	92.3	1.5
Current COPD	no	947674	92.8	1021629	91.4	1.4
	yes	111818	93.7	119392	92.0	1.7

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
Dialysis	no	1057553	92.9	1138907	91.5	1.4
	yes	1932	91.4	2114	90.4	1.0
DMARDs	no	1026102	92.8	1105902	91.4	1.4
	yes	33383	95.1	35112	93.7	1.4
Dementia	no	973119	93.0	1046122	91.8	1.2
	yes	86373	91.0	94899	88.5	2.5
Psychosis,	no	1051869	92.9	1132222	91.6	1.3
schizophrenia, or bipolar	yes	7616	86.6	8799	83.9	2.7
Intellectual disability inc Down syndrome	no	1058225	92.9	1139600	91.5	1.4
	yes	1267	89.2	1421	87.2	2.0
SSRI (last 12 months)	no	993832	92.8	1071350	91.4	1.4
	yes	65653	94.2	69671	92.4	1.8
Chemo or radiotherapy	no	1023204	92.8	1102759	91.4	1.4
	yes	36281	94.8	38262	93.7	1.1
Cancer (lung)	no	1052310	92.9	1133342	91.5	1.4
	yes	7182	93.5	7679	92.0	1.5
Cancer (excluding	no	867258	92.5	938035	91.1	1.4
lung/haem)	yes	192227	94.7	202986	93.4	1.3
Cancer	no	1039808	92.8	1120154	91.5	1.3
(haematological)	yes	19684	94.3	20867	93.1	1.2

- Patient counts rounded to the nearest 7
- Population excludes those known to live in an elderly care home, based upon clinical coding.
- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, Intellectual disability incl Down syndrome, or Dementia.

Cumulative vaccination figures among 70-79 population

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
overall	overall	1906495	92.0	2073078	85.4	6.6
Sex	F	999859	92.1	1085903	85.5	6.6
	M	906633	91.8	987168	85.3	6.5
Age band	70-74	1095213	91.1	1202761	81.2	9.9
	75-79	811279	93.2	870303	91.1	2.1
Ethnicity (broad categories)	Black	8260	61.4	13461	55.5	5.9
	Mixed	4067	73.3	5551	68.0	5.3
	Other	9142	71.6	12761	66.4	5.2
	South Asian	39571	78.6	50351	73.6	5.0
	Unknown	411292	90.5	454335	83.9	6.6
	White	1434153	93.3	1536605	86.7	6.6
ethnicity 16 groups	African	2751	54.9	5012	49.6	5.3
	Bangladeshi or British Bangladeshi	1190	72.6	1638	64.5	8.1
	Caribbean	4116	65.6	6279	59.3	6.3
	Chinese	2555	71.6	3570	64.7	6.9
	Other	6587	71.7	9184	67.1	4.6
	Other Asian	7882	76.5	10297	71.5	5.0
	British or Mixed British	1358406	93.9	1446452	87.2	6.7
	Indian or British Indian	23464	84.5	27762	80.1	4.4
	Irish	11914	89.4	13328	85.0	4.4
	Other Black	1400	64.3	2177	58.2	6.1
	Other White	63833	83.1	76832	77.7	5.4
	Other mixed	1477	74.0	1995	68.4	5.6
	Pakistani or British Pakistani	7042	66.1	10661	60.3	5.8
	Unknown	411292	90.5	454335	83.9	6.6
	White + Asian	973	81.8	1190	77.1	4.7
	White + Black African	672	66.7	1008	61.8	4.9
	White + Black Caribbean	952	69.7	1365	63.6	6.1
Index of Multiple	1 Most deprived	238273	86.7	274764	79.2	7.5
Deprivation (quintiles)	2	317569	90.1	352611	82.9	7.2
	3	426027	92.3	461510	85.4	6.9
	4	445543	93.5	476581	87.2	6.3
	5 Least deprived	444563	94.7	469616	89.1	5.6
	Unknown	34503	90.8	37989	83.9	6.9
ВМІ	30+	478184	93.2	512939	86.3	6.9
	under 30	1428308	91.6	1560132	85.1	6.5
Chronic cardiac	no	1563219	91.8	1703401	85.0	6.8
disease	yes	343273	92.9	369670	87.1	5.8
Current COPD	no	1724471	91.9	1875965	85.3	6.6
	yes	182021	92.3	197106	86.3	6.0
Dialysis	no	1902796	92.0	2068997	85.4	6.6

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
	yes	3696	90.7	4074	85.4	5.3
DMARDs	no	1838781	91.9	2000999	85.3	6.6
	yes	67711	93.9	72072	88.4	5.5
Dementia	no	1867726	92.0	2029958	85.4	6.6
	yes	38766	89.9	43113	83.8	6.1
Psychosis, schizophrenia, or	no	1889342	92.1	2052435	85.5	6.6
bipolar	yes	17143	83.1	20636	74.4	8.7
Intellectual disability inc Down syndrome	no	1902089	92.0	2067688	85.4	6.6
	yes	4403	81.8	5383	70.9	10.9
SSRI (last 12 months)	no	1762201	91.9	1918406	85.3	6.6
	yes	144284	93.3	154665	86.0	7.3
Chemo or radiotherapy	no	1841609	91.9	2003855	85.3	6.6
	yes	64883	93.7	69216	87.9	5.8
Cancer (lung)	no	1895005	92.0	2060436	85.4	6.6
	yes	11487	90.9	12635	85.1	5.8
Cancer (excluding lung/haem)	no	1638693	91.6	1788290	84.9	6.7
iung/naem/	yes	267799	94.0	284774	88.3	5.7
Cancer	no	1878219	91.9	2042796	85.3	6.6
(haematological)	yes	28266	93.4	30275	88.3	5.1

- Patient counts rounded to the nearest 7
- Population excludes those known to live in an elderly care home, based upon clinical coding.
- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, Intellectual disability incl Down syndrome, or Dementia.

Cumulative vaccination figures among care home population

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
overall	overall	75162	90.2	83293	87.3	2.9
Sex	F	53900	91.0	59199	88.4	2.6
	M	21266	88.3	24094	84.6	3.7
Age band	65-69	3486	75.8	4599	68.8	7.0
	70-74	6034	85.9	7028	80.3	5.6
	75-79	8512	89.3	9534	86.0	3.3
	80-84	13027	91.1	14301	88.8	2.3
	85-89	17731	91.8	19320	89.4	2.4
	90+	26369	92.5	28511	90.2	2.3
Ethnicity (broad	Black	322	75.4	427	70.5	4.9
categories)	Mixed	147	87.5	168	79.2	8.3
	Other	252	87.8	287	82.9	4.9
	South Asian	497	81.6	609	78.2	3.4
	Unknown	16128	90.6	17801	87.8	2.8
	White	57827	90.3	64008	87.4	2.9
Dementia	no	33628	88.0	38227	84.2	3.8
	yes	41531	92.2	45066	89.9	2.3

- Patient counts rounded to the nearest 7
- Population includes those known to live in an elderly care home, based upon clinical coding.

Cumulative vaccination figures among shielding (aged 16-69) population

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
overall	overall	466356	57.6	809634	44.8	12.8
newly shielded since feb	no	406476	80.5	505127	65.0	15.5
15	yes	59878	19.7	304507	11.3	8.4
Sex	F	256697	56.0	458416	44.2	11.8
	М	209657	59.7	351211	45.6	14.1
Age band	16-29	28903	42.9	67438	32.7	10.2
	30-39	46277	36.7	125951	28.6	8.1
	40-49	74543	45.9	162302	35.8	10.1
	50-59	135982	61.4	221557	47.6	13.8
	60-69	180642	77.7	232379	60.7	17.0
Ethnicity (broad	Black	12460	31.1	40096	23.3	7.8
categories)	Mixed	4676	37.7	12404	28.5	9.2
	Other	5264	34.5	15239	26.1	8.4
	South Asian	32312	32.9	98182	24.6	8.3
	Unknown	91959	59.5	154455	46.4	13.1
	White	319676	65.3	489244	51.1	14.2
Index of Multiple Deprivation (quintiles)	1 Most deprived	110600	45.9	241122	33.4	12.5
	2	99778	54.3	183715	41.6	12.7
	3	95424	62.2	153391	49.1	13.1
	4	81830	68.5	119539	55.4	13.1
	5 Least deprived	68033	73.4	92708	60.5	12.9
	Unknown	10689	55.8	19152	42.3	13.5

- Patient counts rounded to the nearest 7
- Population excludes those over 65 known to live in an elderly care home, based upon clinical coding.

Cumulative vaccination figures among 65-69 population

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
overall	overall	621899	57.9	1073989	19.9	38.0
Sex	F	324646	59.2	548170	21.3	37.9
	M	297248	56.5	525819	18.4	38.1
Ethnicity (broad categories)	Black	3976	39.9	9968	19.9	20.0
categories	Mixed	2072	47.4	4368	22.6	24.8
	Other	4718	46.5	10143	22.2	24.3
	South Asian	23380	58.4	40033	31.9	26.5
	Unknown	125699	53.7	233940	17.2	36.5
	White	462042	59.6	775530	20.1	39.5
ethnicity 16 groups	African	1547	38.3	4039	21.8	16.5
	Bangladeshi or British Bangladeshi	798	51.1	1561	23.3	27.8
	Caribbean	1638	40.0	4095	17.9	22.1
	Chinese	1477	42.8	3451	18.5	24.3
	Other	3234	48.3	6692	24.0	24.3
	Other Asian	4242	56.6	7497	33.1	23.5
	British or Mixed British	435078	60.2	722141	20.0	40.2
	Indian or British Indian	13853	65.6	21126	35.8	29.8
	Irish	3570	61.2	5831	27.9	33.3
	Other Black	798	43.5	1834	20.2	23.3
	Other White	23394	49.2	47551	20.4	28.8
	Other mixed	735	46.9	1568	22.8	24.1
	Pakistani or British Pakistani	4494	45.6	9849	24.0	21.6
	Unknown	125699	53.7	233940	17.2	36.5
	White + Asian	511	55.7	917	26.0	29.7
	White + Black African	364	44.1	826	22.0	22.1
	White + Black Caribbean	462	43.7	1057	19.9	23.8
Index of Multiple	1 Most deprived	79114	51.4	153965	19.0	32.4
Deprivation (quintiles)	2	103047	54.5	189182	19.7	34.8
	3	137004	57.8	237160	20.2	37.6
	4	145187	60.6	239736	20.2	40.4
	5 Least deprived	145425	62.6	232491	20.1	42.5
	Unknown	12110	56.5	21448	19.4	37.1
ВМІ	30+	161476	60.1	268681	20.4	39.7
	under 30	460418	57.2	805308	19.7	37.5
Chronic cardiac disease	no	554778	57.6	963312	19.8	37.8
uisease	yes	67116	60.6	110677	21.0	39.6
Current COPD	no	597527	57.8	1033067	19.8	38.0
	yes	24367	59.6	40915	21.7	37.9
DMARDs	no	609644	57.8	1054312	19.9	37.9
	yes	12250	62.3	19677	22.7	39.6
Dementia	no	618317	57.9	1068186	19.9	38.0

		Vaccinated at 17 Feb (n)	Vaccinated at 17 Feb (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Category	Group					
	yes	3577	61.7	5796	24.5	37.2
Psychosis,	no	616413	58.0	1062208	19.9	38.1
schizophrenia, or bipolar	yes	5481	46.5	11781	17.5	29.0
Intellectual disability inc	no	619892	57.9	1069712	19.9	38.0
Down syndrome	yes	2002	46.9	4270	19.2	27.7
SSRI (last 12 months)	no	568358	57.8	982968	19.8	38.0
	yes	53536	58.8	91014	21.0	37.8
Chemo or radiotherapy	no	609665	57.8	1054242	19.9	37.9
	yes	12229	61.9	19747	22.5	39.4
Cancer (lung)	no	620816	57.9	1072225	19.9	38.0
	yes	1078	61.1	1764	24.6	36.5
Cancer (excluding	no	567406	57.5	986881	19.7	37.8
lung/haem)	yes	54488	62.6	87101	22.2	40.4
Cancer	no	619605	57.9	1070286	19.9	38.0
(haematological)	yes	2289	61.8	3703	22.7	39.1

- Patient counts rounded to the nearest 7
- Population excludes those known to live in an elderly care home, based upon clinical coding.
- Population excludes those who are currently shielding.
- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, Intellectual disability incl Down syndrome, or Dementia.

Cumulative vaccination figures among under 65s, not in other eligible groups shown population

		Vaccinated at 17 Feb (n)	Previous week's vaccination figure (n)	Vaccinated over last 7d (n)	Increase in coverage over last 7d (%)
Category	Group				
overall	overall	1516910	1208906.0	308004.0	25.5
Sex	F	1057203	884968.0	172235.0	19.5
	М	459690	323925.0	135765.0	41.9
Age band	16-29	231707	199864.0	31843.0	15.9
	30-39	277473	240926.0	36547.0	15.2
	40-49	327943	277886.0	50057.0	18.0
	50-59	448525	350623.0	97902.0	27.9
	60-69	231238	139594.0	91644.0	65.7
Ethnicity (broad categories)	Black	32662	26866.0	5796.0	21.6
categories)	Mixed	16583	13762.0	2821.0	20.5
	Other	23205	19355.0	3850.0	19.9
	South Asian	102774	82726.0	20048.0	24.2
	Unknown	326389	264152.0	62237.0	23.6
	White	1015280	802025.0	213255.0	26.6
ethnicity 16 groups	African	21462	18102.0	3360.0	18.6
	Bangladeshi or British Bangladeshi	4480	3150.0	1330.0	42.2
	Caribbean	5173	3955.0	1218.0	30.8
	Chinese	4774	4074.0	700.0	17.2
	Other	18431	15281.0	3150.0	20.6
	Other Asian	27440	22848.0	4592.0	20.1
	British or Mixed British	930496	734447.0	196049.0	26.7
	Indian or British Indian	51233	41895.0	9338.0	22.3
	Irish	7224	5712.0	1512.0	26.5
	Other Black	6034	4809.0	1225.0	25.5
	Other White	77560	61866.0	15694.0	25.4
	Other mixed	5488	4508.0	980.0	21.7
	Pakistani or British Pakistani	19628	14833.0	4795.0	32.3
	Unknown	326389	264152.0	62237.0	23.6
	White + Asian	3976	3374.0	602.0	17.8
	White + Black African	3857	3269.0	588.0	18.0
	White + Black Caribbean	3262	2611.0	651.0	24.9
Index of Multiple Deprivation (quintiles)	1 Most deprived	251202	195790.0	55412.0	28.3
	2	291046	230762.0	60284.0	26.1
	3	326263	258839.0	67424.0	26.0
	4	315084	253190.0	61894.0	24.4
	5 Least deprived	293216	237755.0	55461.0	23.3
	Unknown	40082	32557.0	7525.0	23.1
ВМІ	30+	361130	262444.0	98686.0	37.6
	under 30	1155763	946449.0	209314.0	22.1
Chronic cardiac disease	no	1458996	1179465.0	279531.0	23.7
	yes	57897	29428.0	28469.0	96.7

		Vaccinated at 17 Feb (n)	Previous week's vaccination figure (n)	Vaccinated over last 7d (n)	Increase in coverage over last 7d (%)
Category	Group				
Current COPD	no	1494780	1197588.0	297192.0	24.8
	yes	22113	11298.0	10815.0	95.7
DMARDs	no	1492743	1193087.0	299656.0	25.1
	yes	24150	15806.0	8344.0	52.8
SSRI (last 12 months)	no	1286425	1022413.0	264012.0	25.8
	yes	230461	186480.0	43981.0	23.6

- Patient counts rounded to the nearest 7
- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, Intellectual disability incl Down syndrome, or Dementia.