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 24 May 2021

Vaccinations included up to 20 May 2021 inclusive

Contents:

Overview of Vaccination Figures to date

Group	first dose as at 20 May 2021	second dose as at 20 May 2021
Total vaccinated in TPP	12,667,662	7,339,948
80+	96.3% (1,073,702 of 1,115,520)	93.1% (1,038,058 of 1,115,520)
70-79	95.7% (1,980,664 of 2,068,836)	92.6% (1,915,221 of 2,068,836)
care home	96.5% (81,837 of 84,847)	89.5% (75,936 of 84,847)
shielding (aged 16-69)	88.2% (732,494 of 830,613)	72.0% (597,926 of 830,613)
65-69	93.0% (998,368 of 1,073,702)	82.3% (883,834 of 1,073,702)
LD (aged 16-64)	82.6% (67,746 of 81,984)	48.7% (39,921 of 81,984)
60-64	90.7% (1,160,453 of 1,279,257)	48.1% (614,726 of 1,279,257)
55-59	88.4% (1,336,755 of 1,512,735)	32.8% (495,992 of 1,512,735)
50-54	85.4% (1,335,691 of 1,563,779)	27.1% (424,410 of 1,563,779)
16-49, not in other eligible groups shown	3,899,952	1,253,938

NB Patient counts are rounded to nearest 7

Vaccine types and second doses

Second doses (% of all vaccinated): **57.9%** (7,339,948)

Oxford-AZ vaccines (% of all first doses): **65.4%** (8,282,407)

Moderna vaccines (% of all first doses): **0.7%** (86,793)

Group definitions

- The **care home** group is defined based on patients (aged 65+) having one of these codes (https://codelists.opensafely.org/codelist/primis-covid19-vacc-uptake/longres/v1/).

- The **shielding** group is defined based on patients having one of these codes (https://codelists.opensafely.org/codelist/primis-covid19-vacc-uptake/shield/v1/) provided it was not superceded by one of these codes (https://codelists.opensafely.org/codelist/primis-covid19-vacc-uptake/nonshield/v1/).
- The **LD** (learning disability) group is defined based on this (https://codelists.opensafely.org/codelist/primis-covid19-vacc-uptake/learndis/v1/) codelist and excludes people who are shielding.
- 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

Cumulative vaccination figures to 2021-05-20
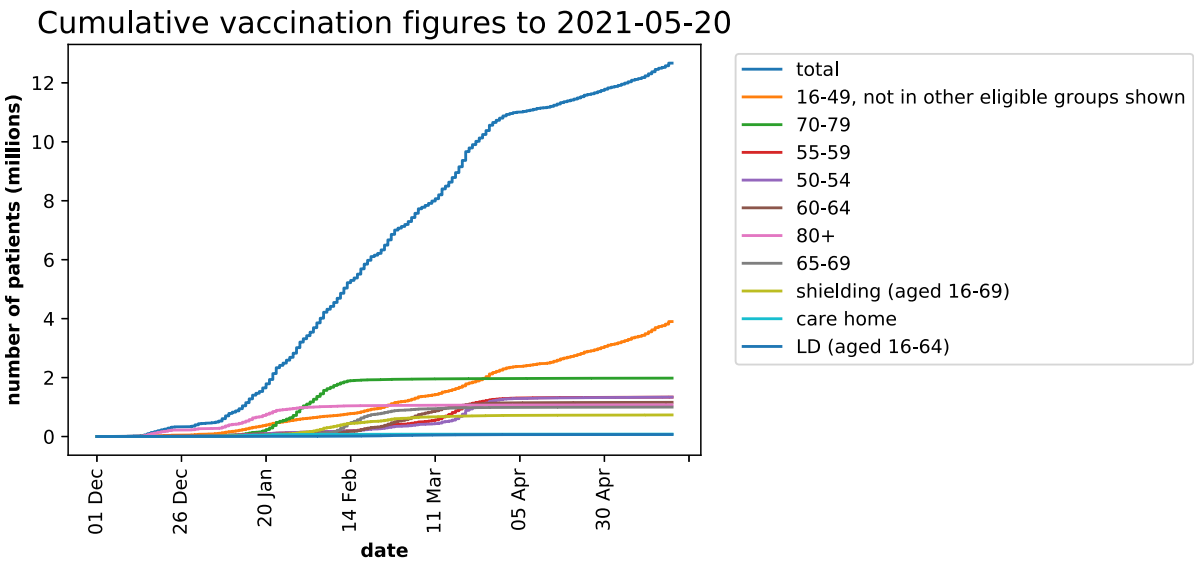
Trends in vaccination rates of 80+ population according to demographic/clinical features, cumulatively by day.

Latest overall cohort 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)

COVID vaccinations among 80+ population

by BMI
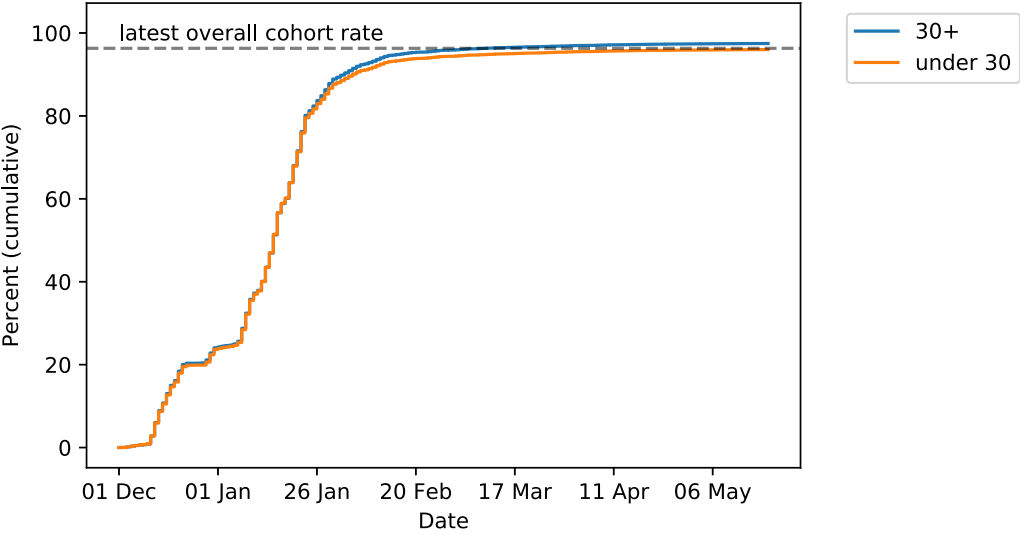
COVID vaccinations among 80+ population

by Chronic cardiac disease
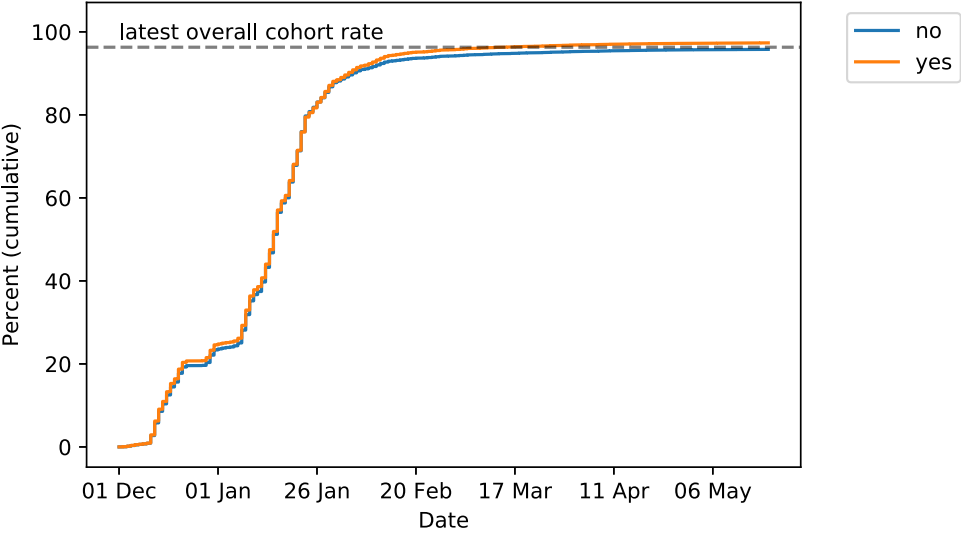
COVID vaccinations among 80+ population

by Current COPD

COVID vaccinations among 80+ population

by Dialysis

COVID vaccinations among 80+ population

by Dementia
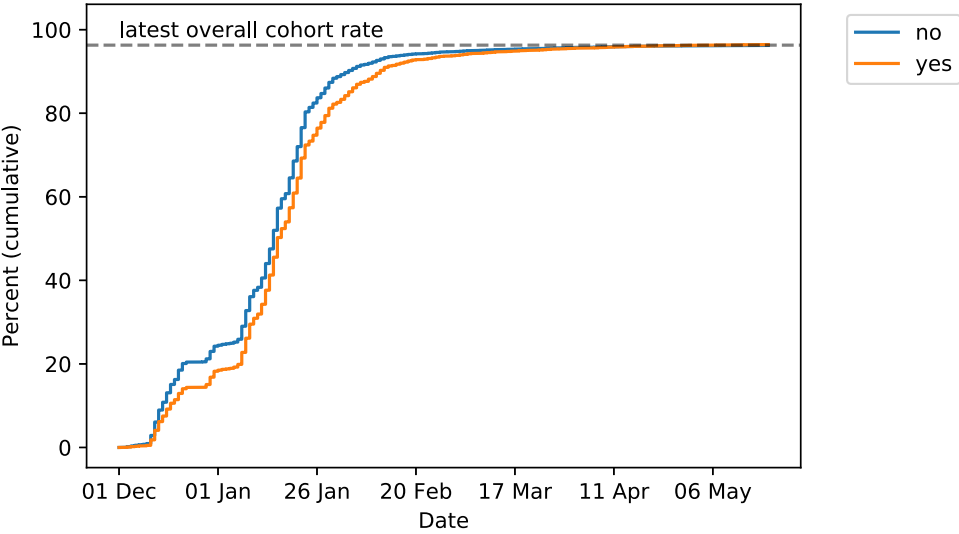
COVID vaccinations among 80+ population

by Learning disability
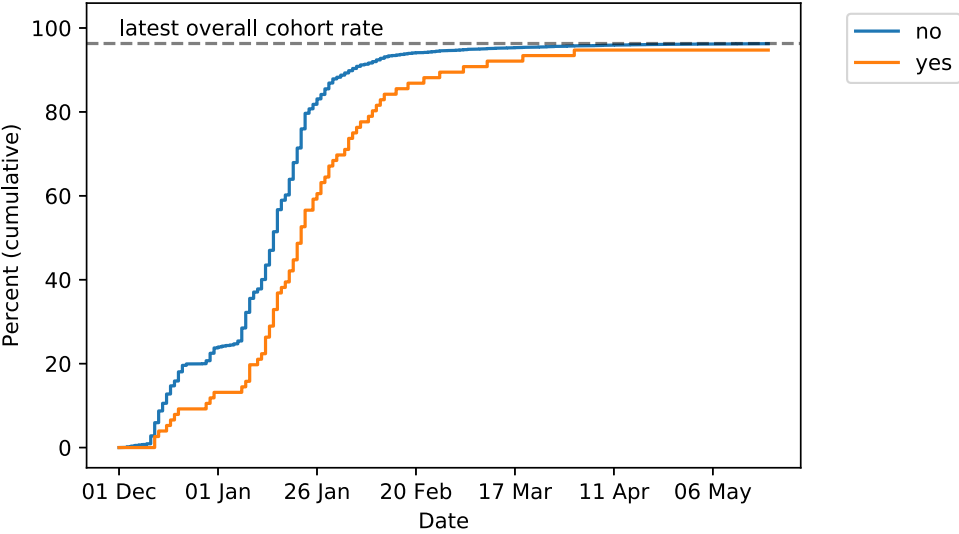
COVID vaccinations among 80+ population

by Psychosis, schizophrenia, or bipolar
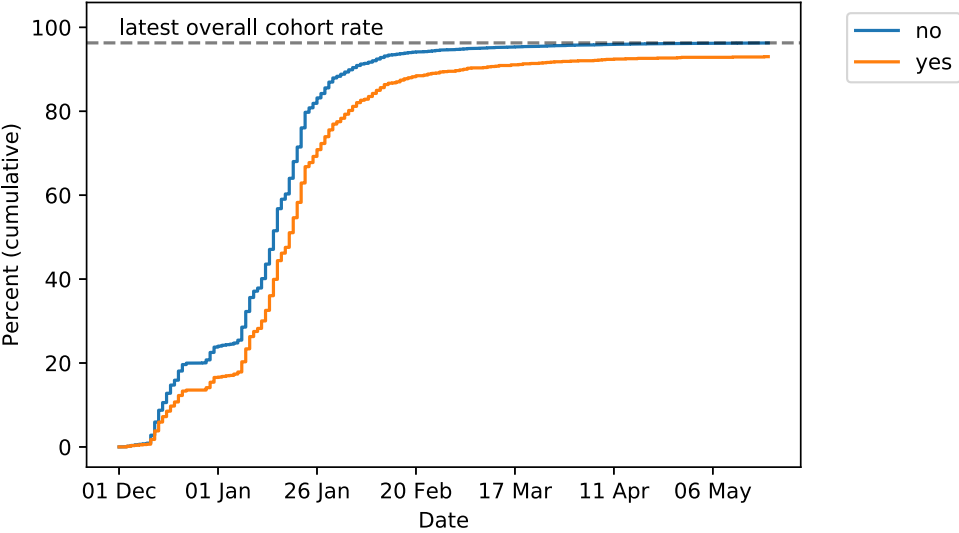
COVID vaccinations among 80+ population

by SSRI (last 12 months)
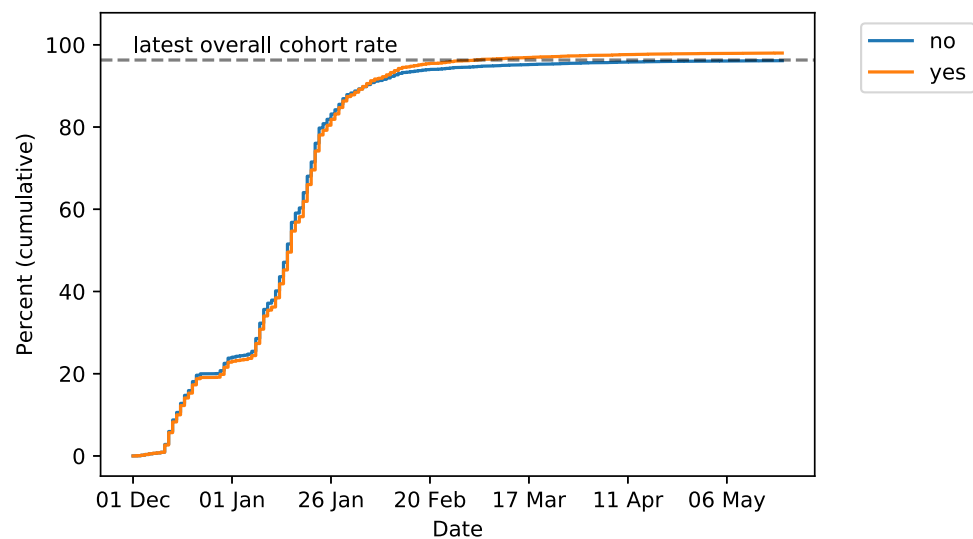
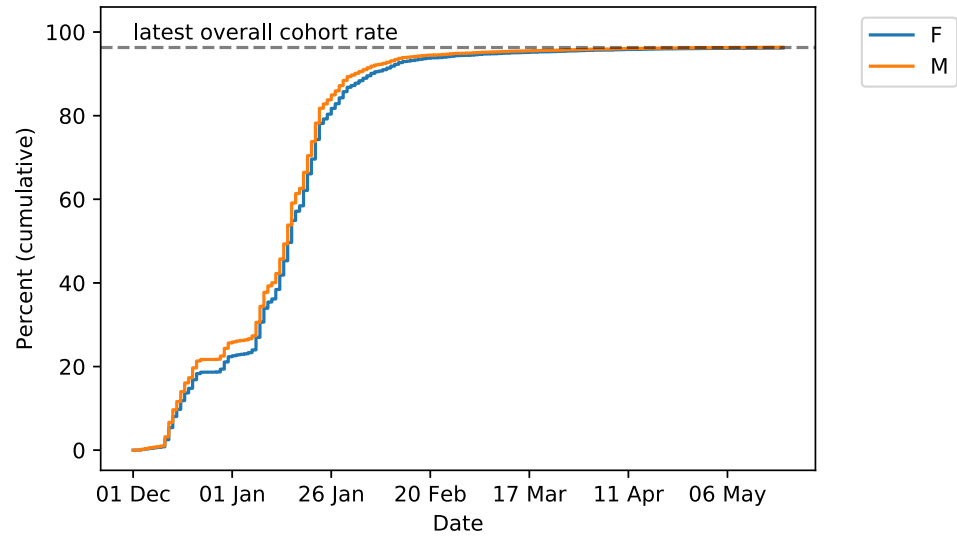
COVID vaccinations among 80+ population

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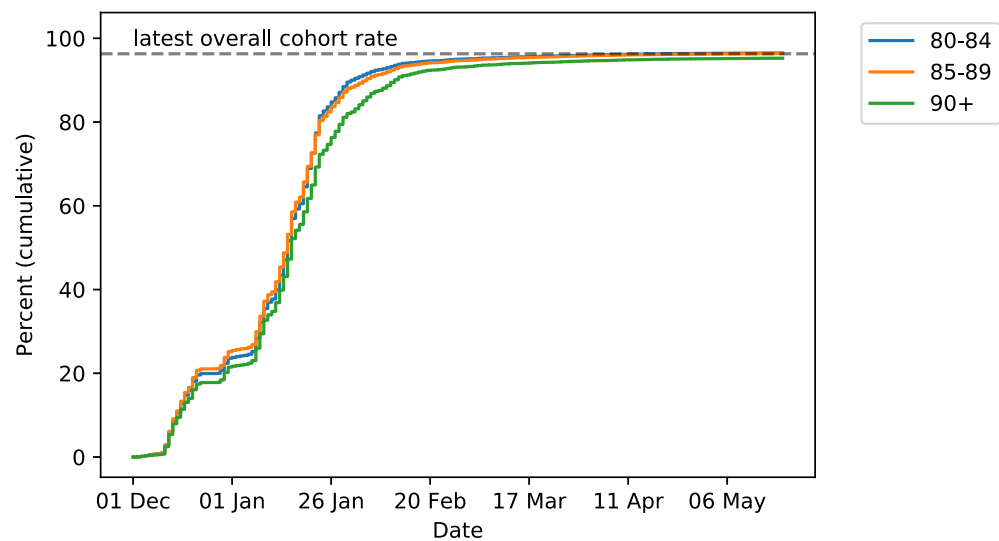
Trends in vaccination rates of 70-79 population according to demographic/clinical features, cumulatively by day.

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

70-79 population

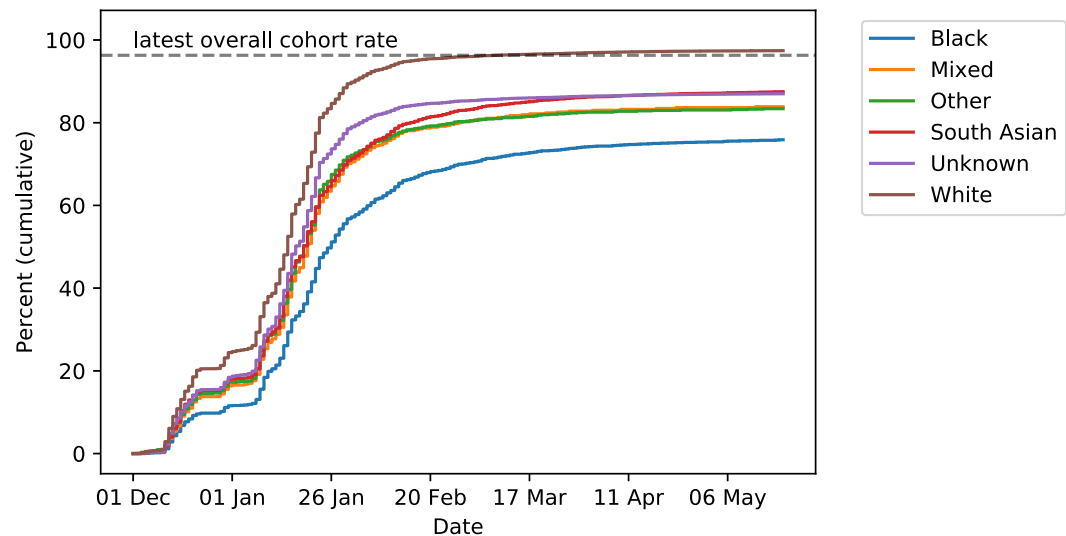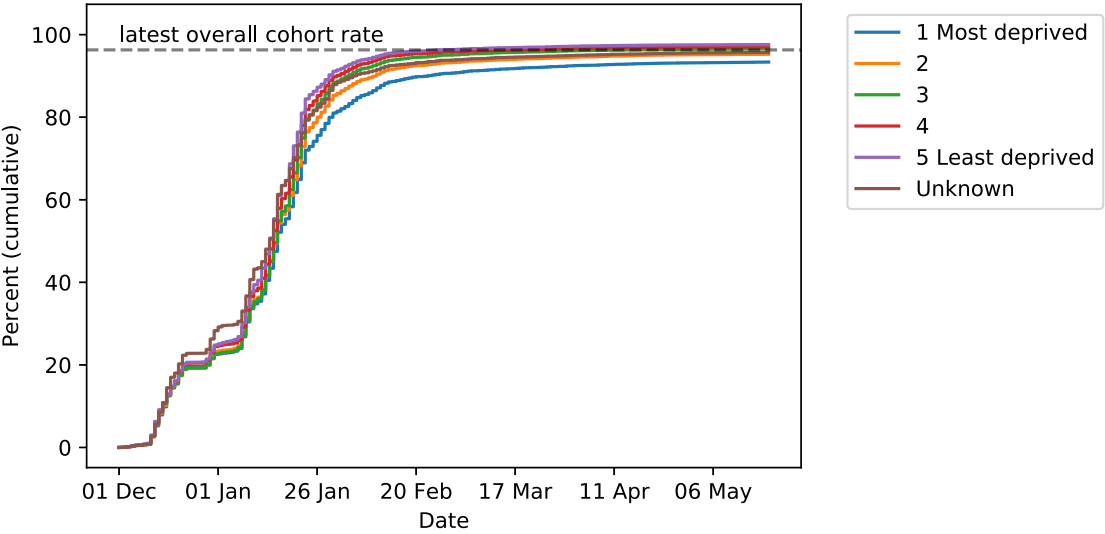## COVID vaccinations among 70-79 population

by Sex

COVID vaccinations among 70-79 population

## by Ethnicity (broad categories)

COVID vaccinations among 70-79 population

by Index of Multiple Deprivation (quintiles)
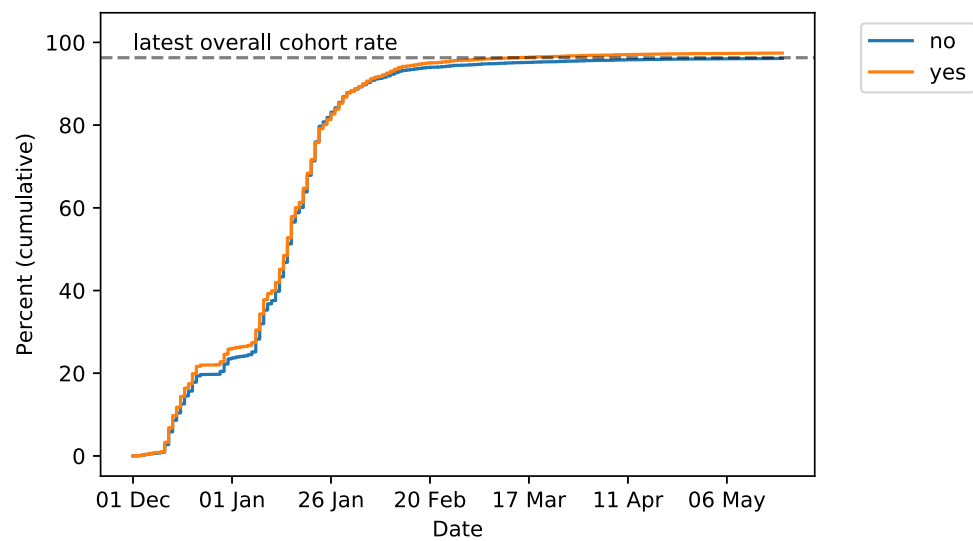
COVID vaccinations among 70-79 population

by BMI
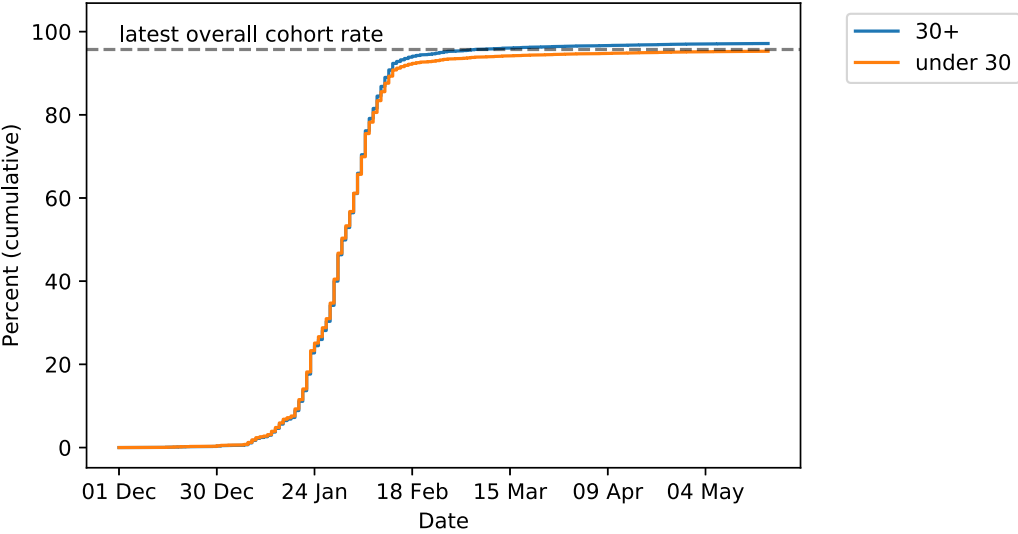
COVID vaccinations among 70-79 population
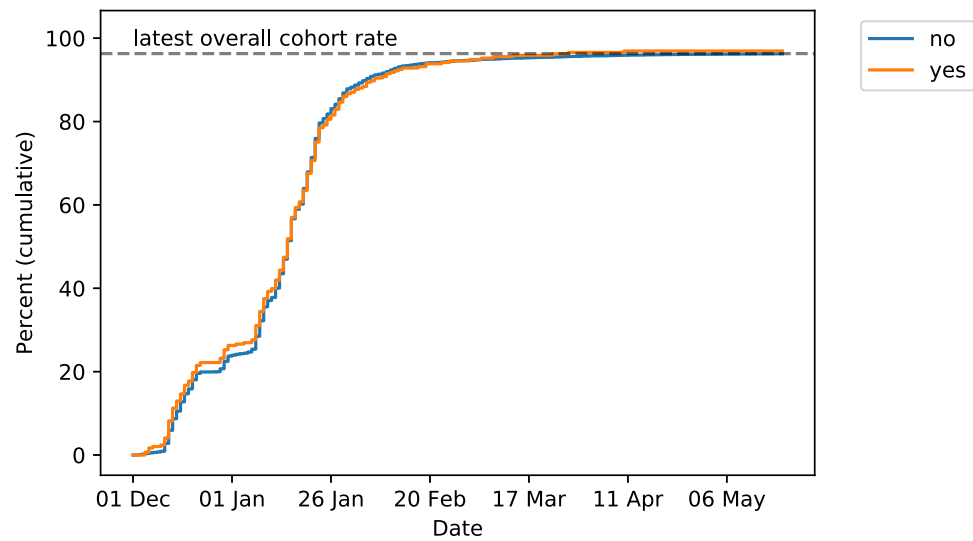
by Chronic cardiac disease
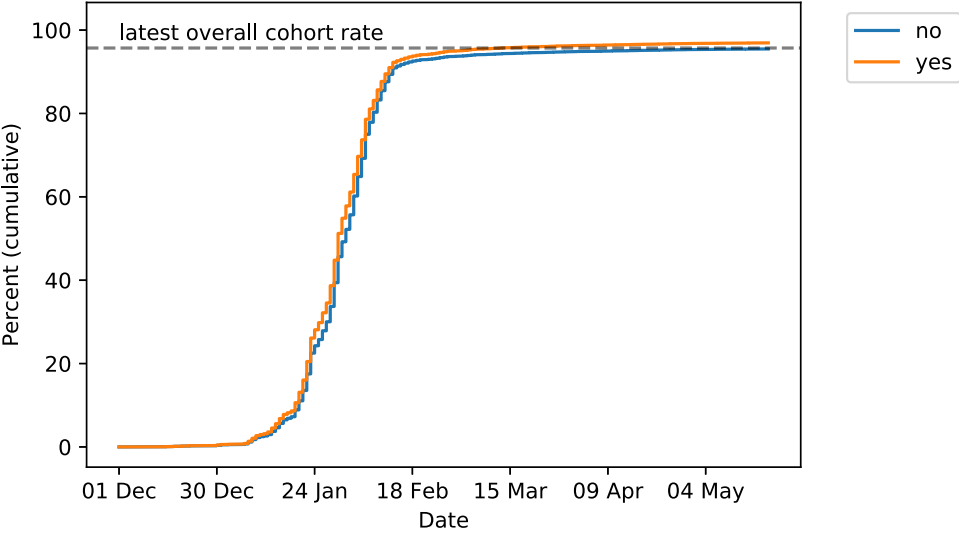
COVID vaccinations among 70-79 population

by Current COPD

COVID vaccinations among 70-79 population

by Dialysis

COVID vaccinations among 70-79 population

by Dementia

COVID vaccinations among 70-79 population

by Learning disability

COVID vaccinations among 70-79 population

by Psychosis, schizophrenia, or bipolar
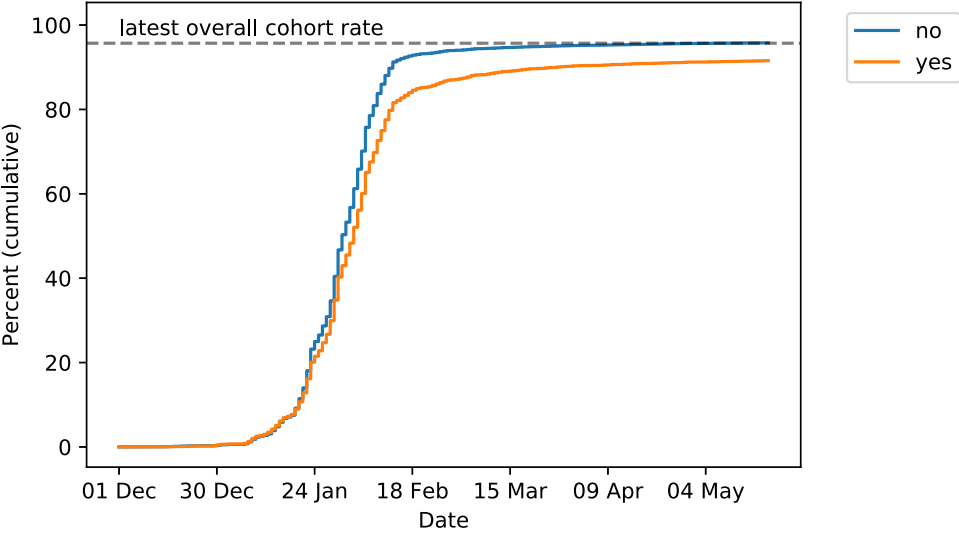
COVID vaccinations among 70-79 population

by SSRI (last 12 months)

COVID vaccinations among 70-79 population

by Age band
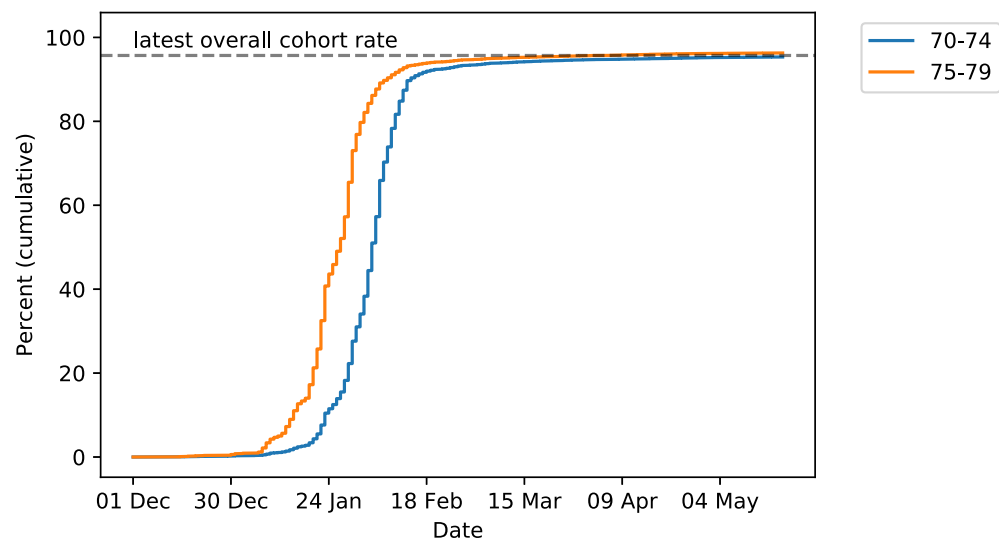
Trends in vaccination rates of shielding population according to demographic/clinical features, cumulatively by day.

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

Shielding population (aged 16-69)

COVID vaccinations among shielding (aged 16-69) population

by newly shielded since feb 15

COVID vaccinations among shielding (aged 16-69) population

by Age band
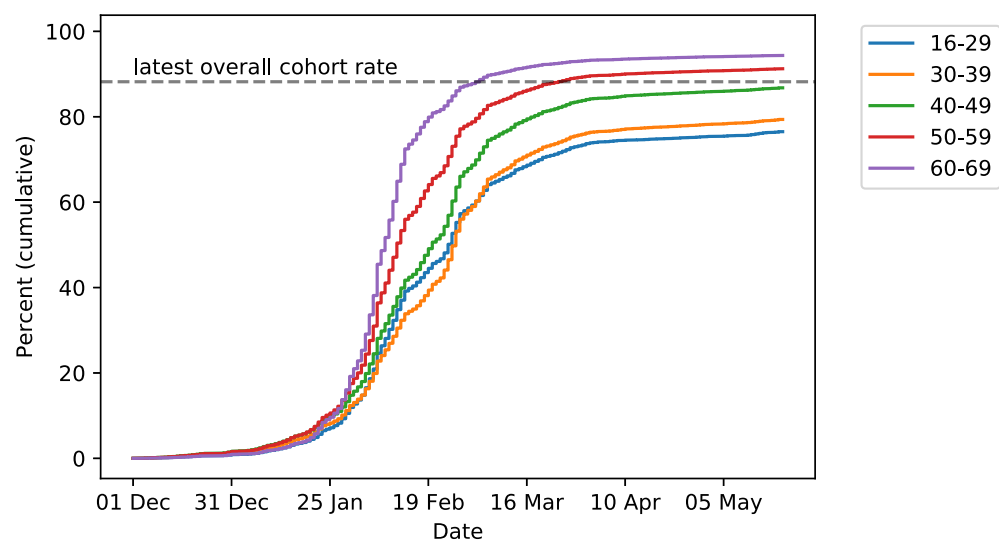
COVID vaccinations among shielding (aged 16-69) population

by Sex
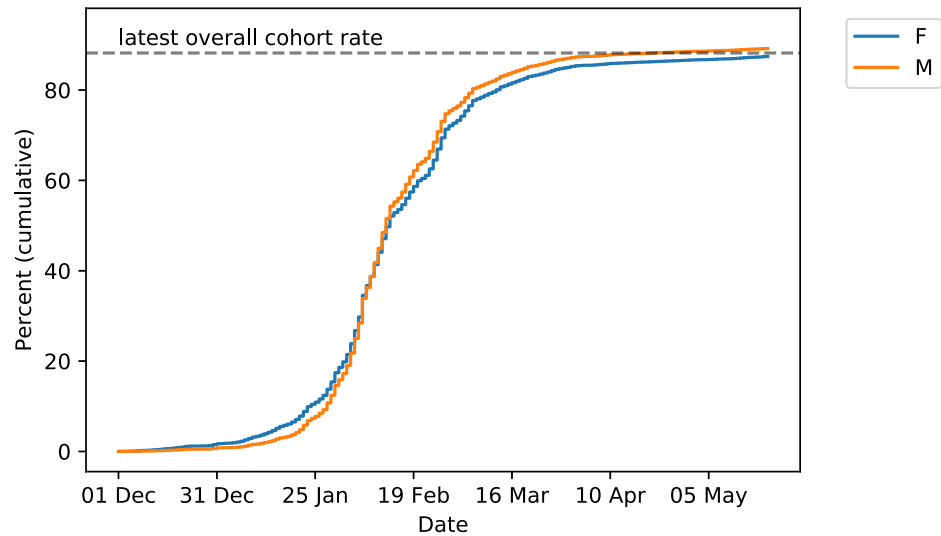
COVID vaccinations among shielding (aged 16-69) population

by Ethnicity (broad categories)
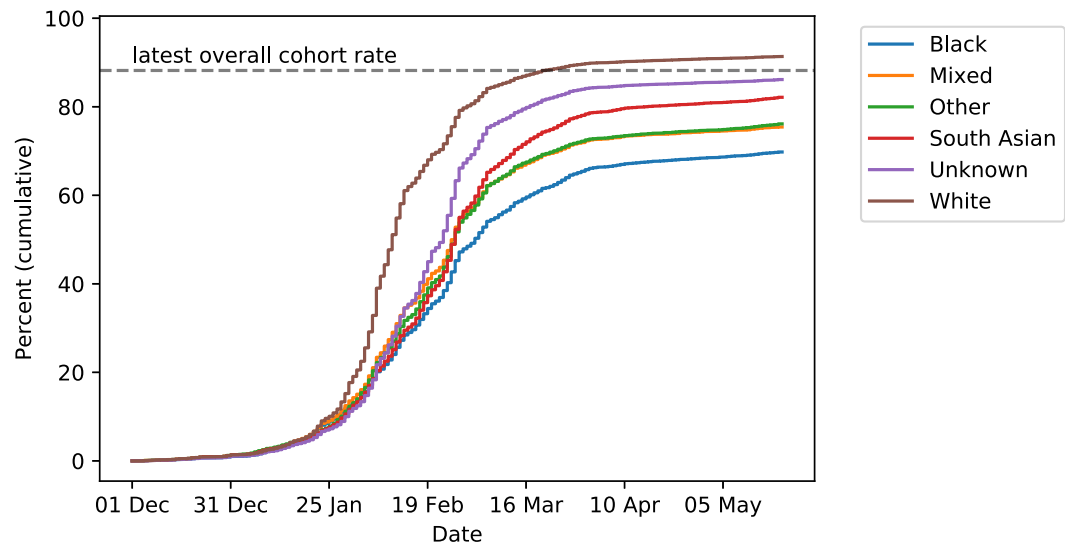
COVID vaccinations among shielding (aged 16-69) population

by Index of Multiple Deprivation (quintiles)
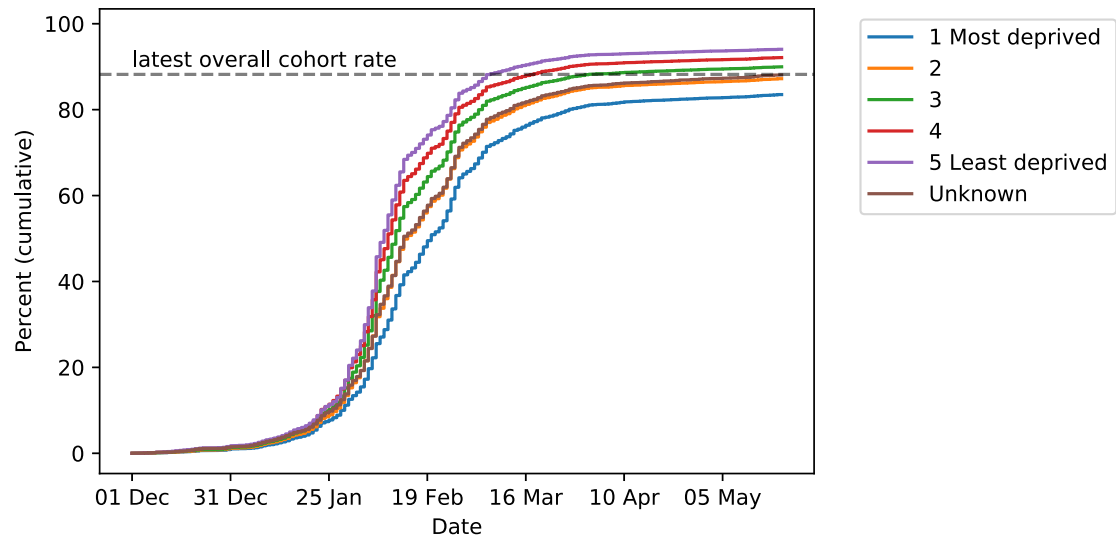
COVID vaccinations among shielding (aged 16-69) population

by Learning disability
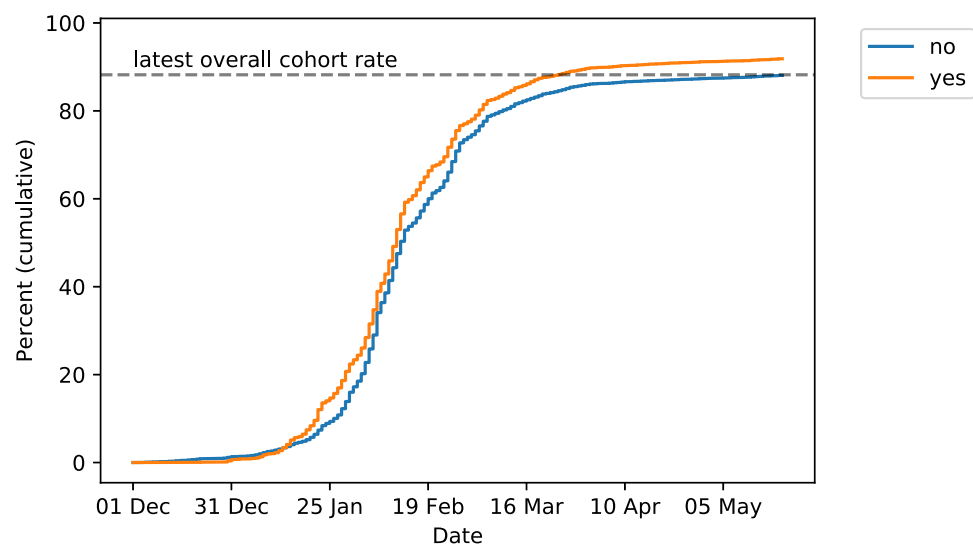
Trends in vaccination rates of 65-69 population according to demographic/clinical features, cumulatively by day.

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

65-69 population

COVID vaccinations among 65-69 population

by Sex
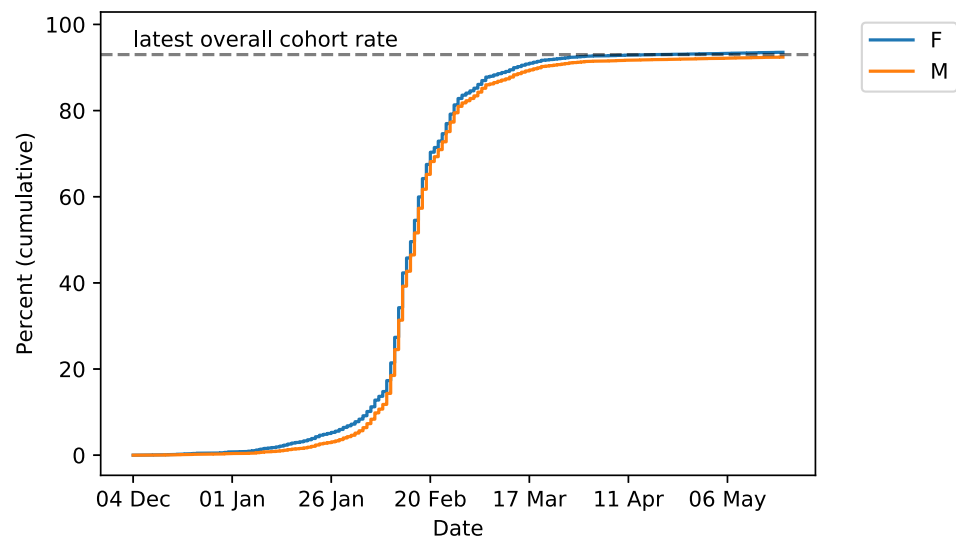
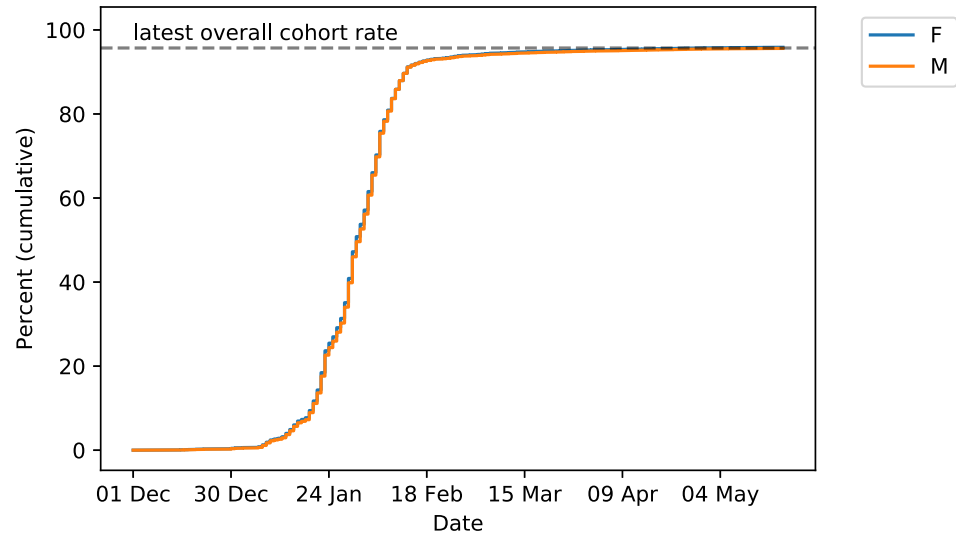## COVID vaccinations among 65-69 population

by Ethnicity (broad categories)
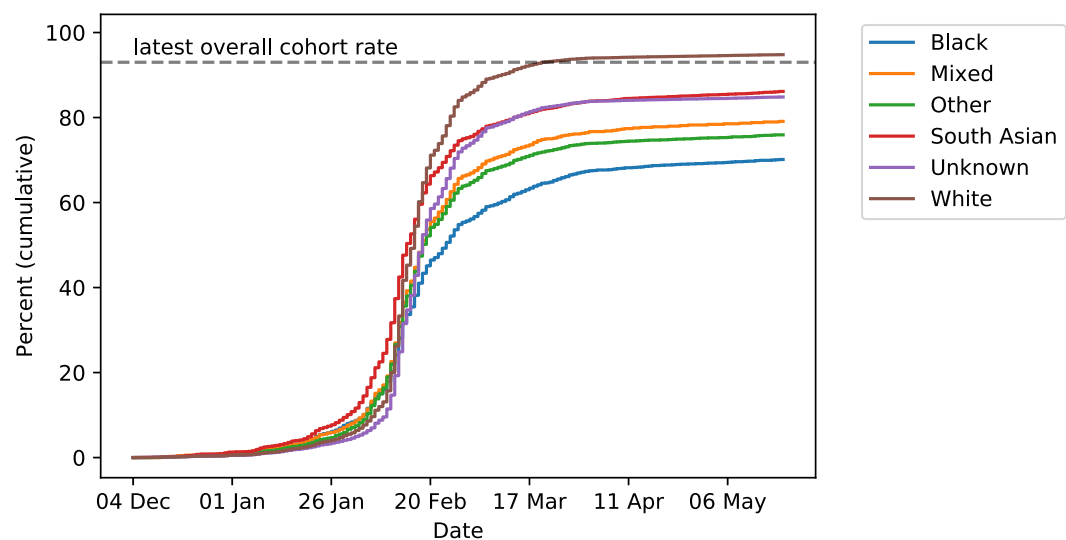
COVID vaccinations among 65-69 population

by Index of Multiple Deprivation (quintiles)
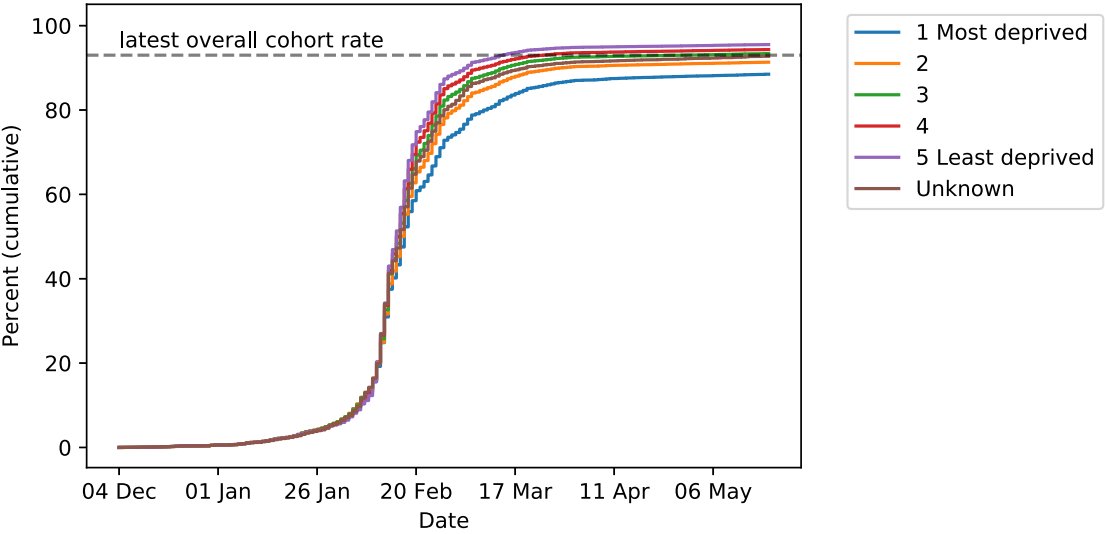
COVID vaccinations among 65-69 population

by BMI
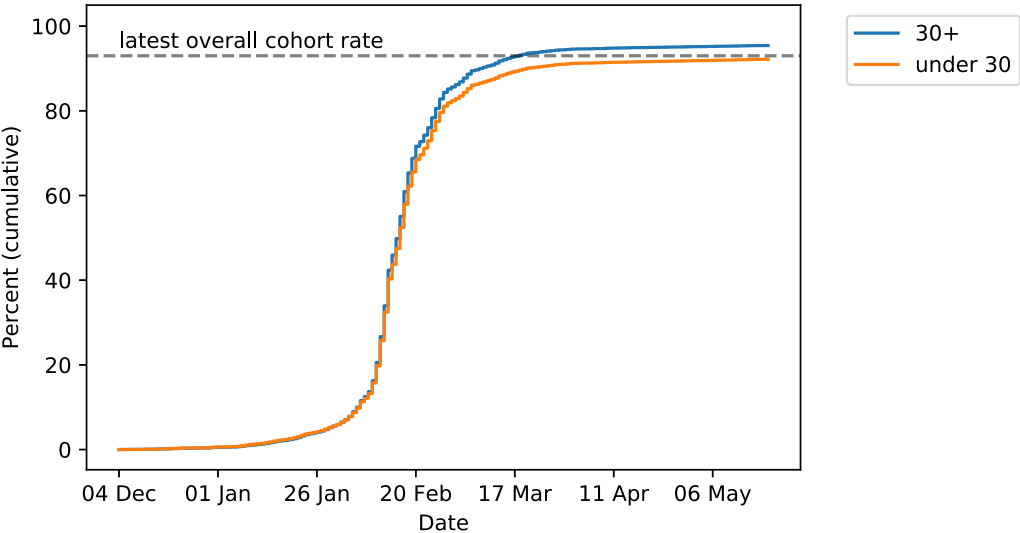
COVID vaccinations among 65-69 population

by Chronic cardiac disease
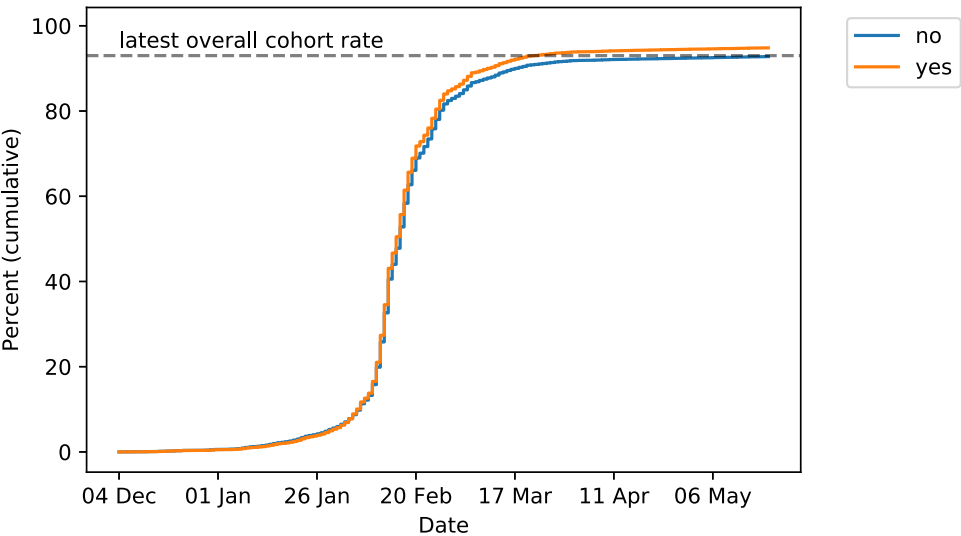
COVID vaccinations among 65-69 population

by Current COPD
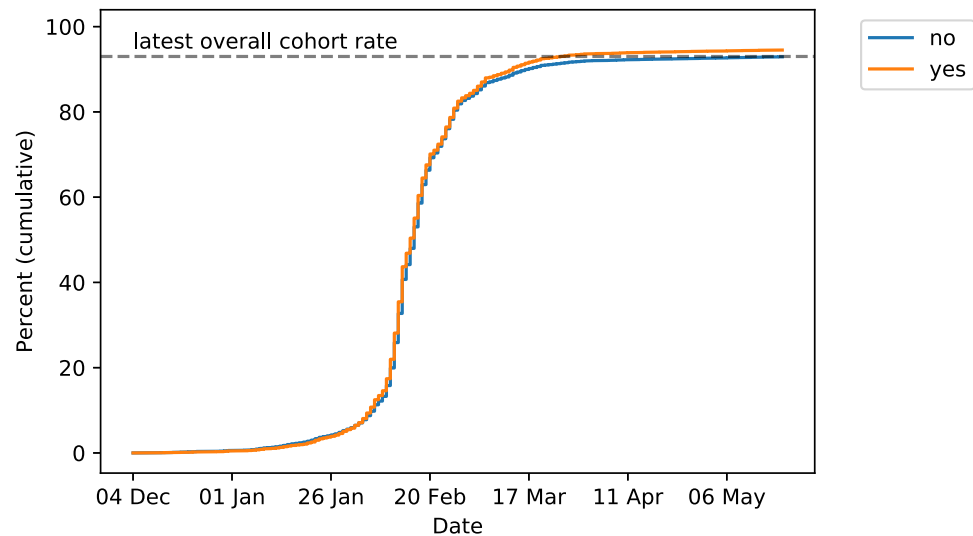
COVID vaccinations among 65-69 population

by Dementia
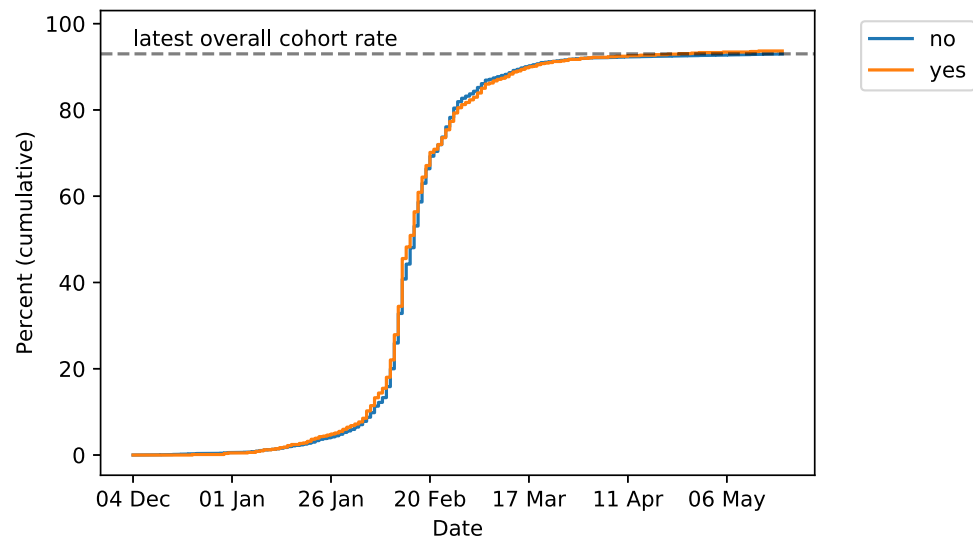
COVID vaccinations among 65-69 population

by Learning disability
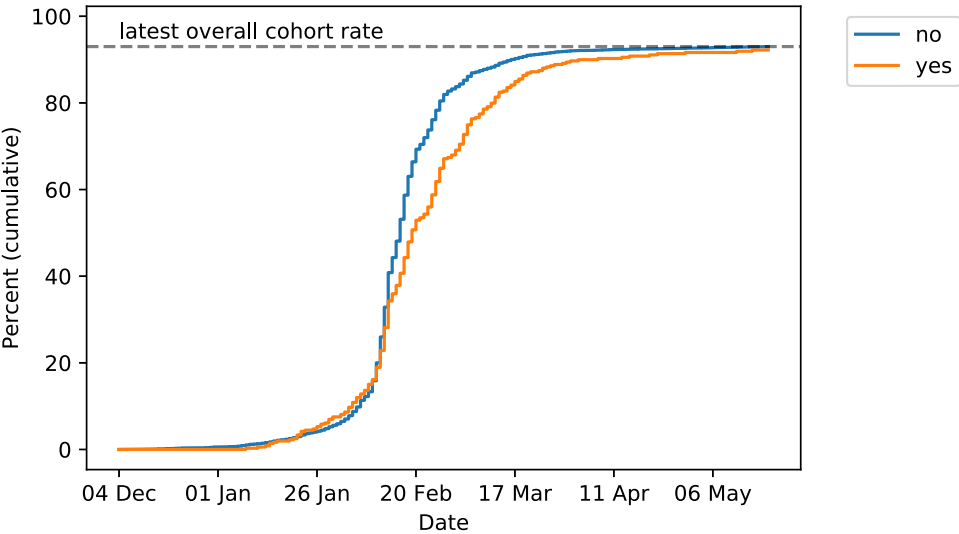
COVID vaccinations among 65-69 population

by Psychosis, schizophrenia, or bipolar
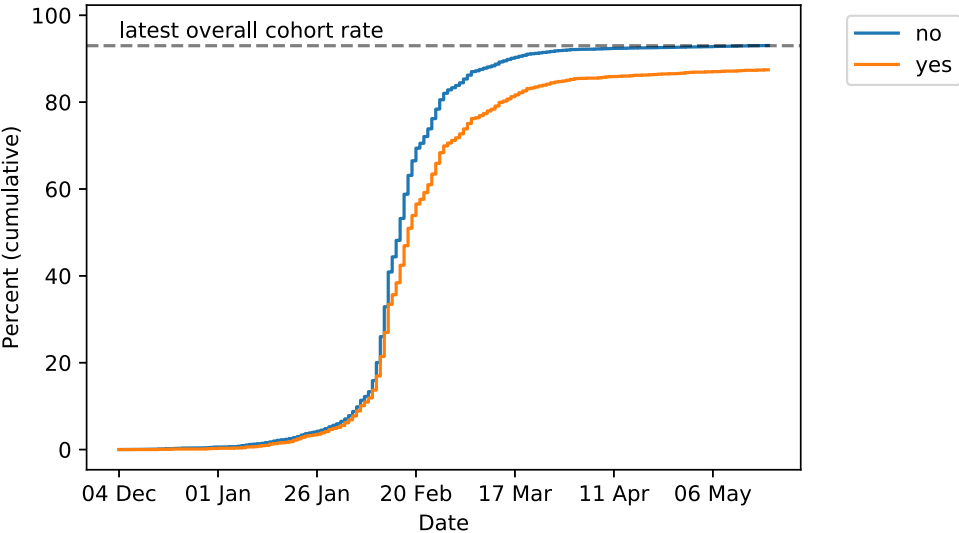
COVID vaccinations among 65-69 population

by SSRI (last 12 months)
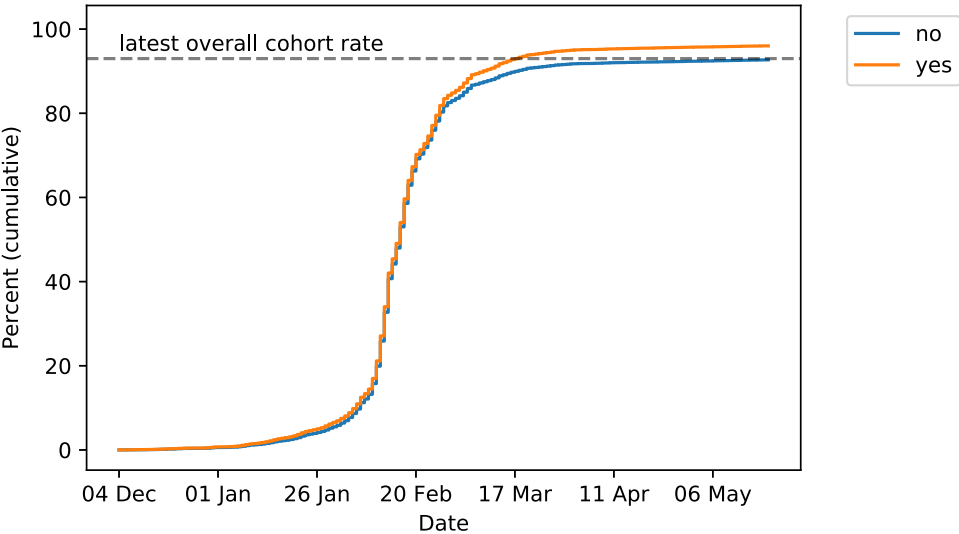
Trends in vaccination rates of 60-64 population according to demographic/clinical features, cumulatively by day.

*National rate calculated as at latest date for vaccinations recorded across all TPP practices.
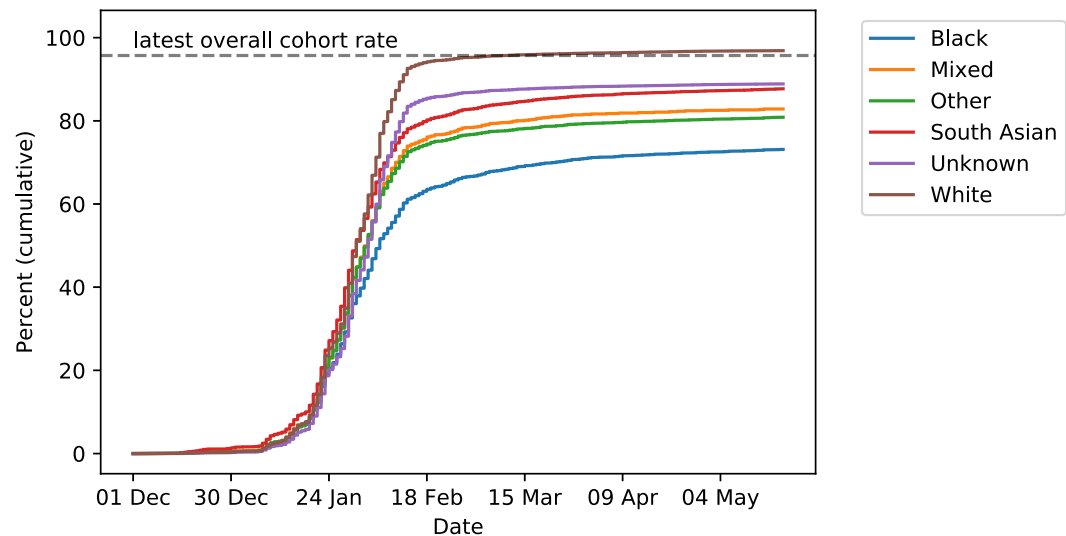
60-64 population

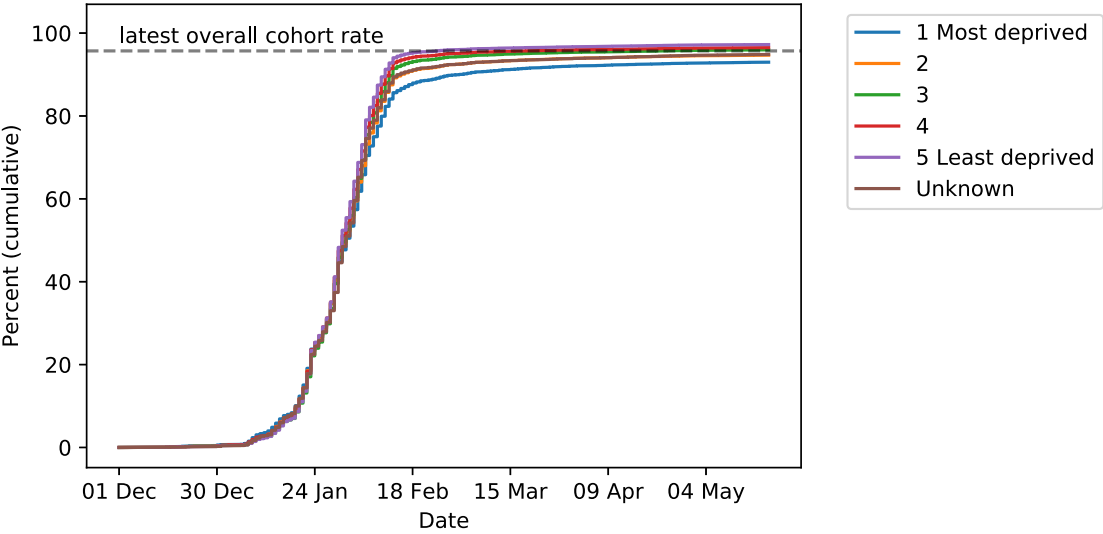## COVID vaccinations among 60-64 population

by Sex
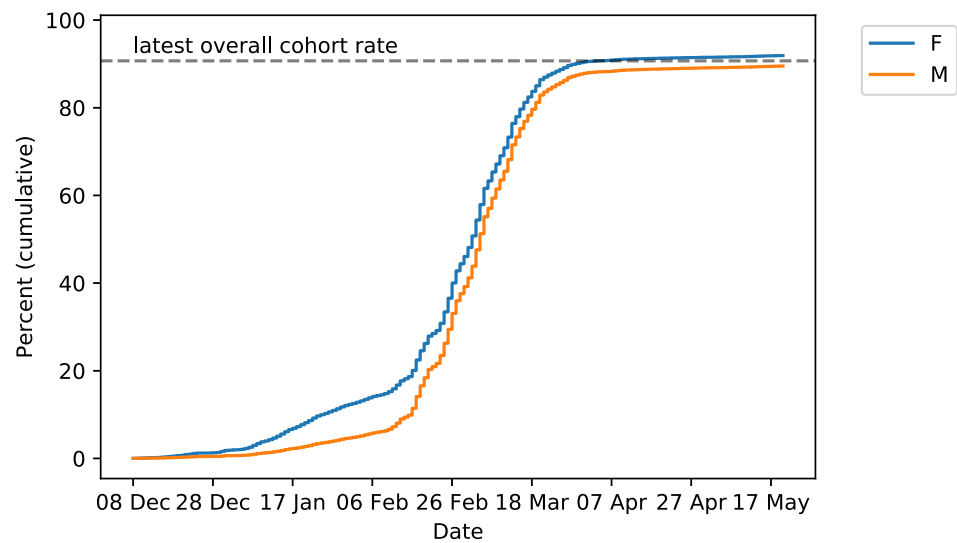
COVID vaccinations among 60-64 population

## by Ethnicity (broad categories)
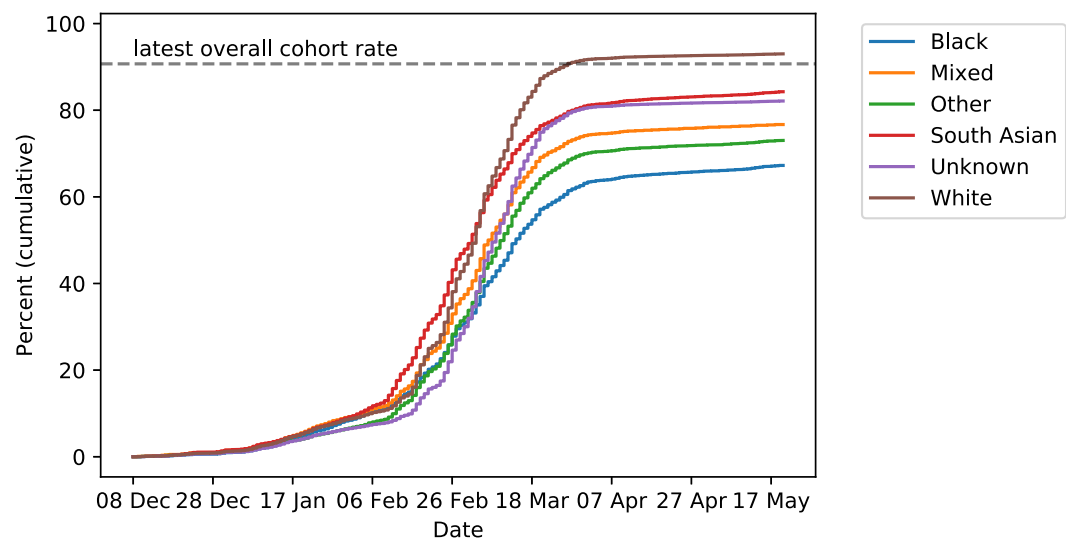
COVID vaccinations among 60-64 population

by Index of Multiple Deprivation (quintiles)
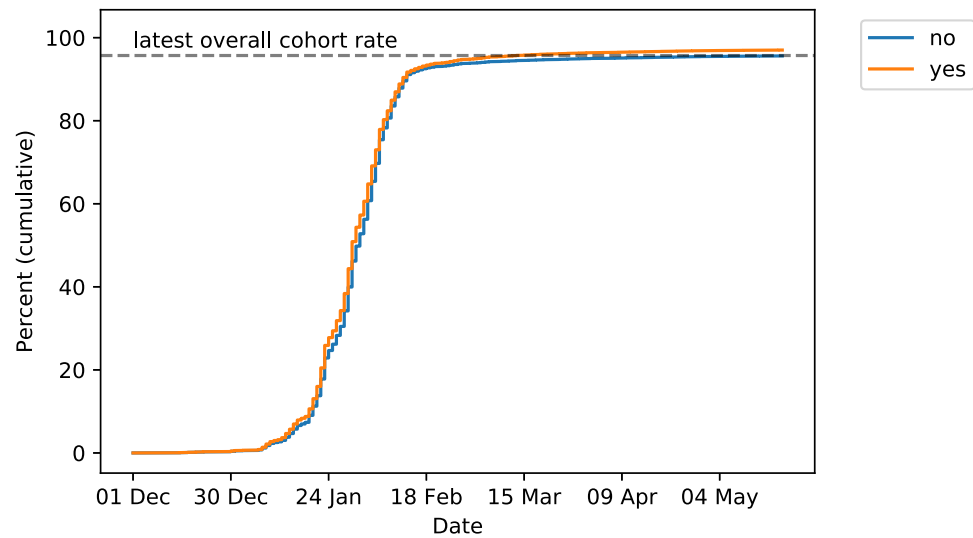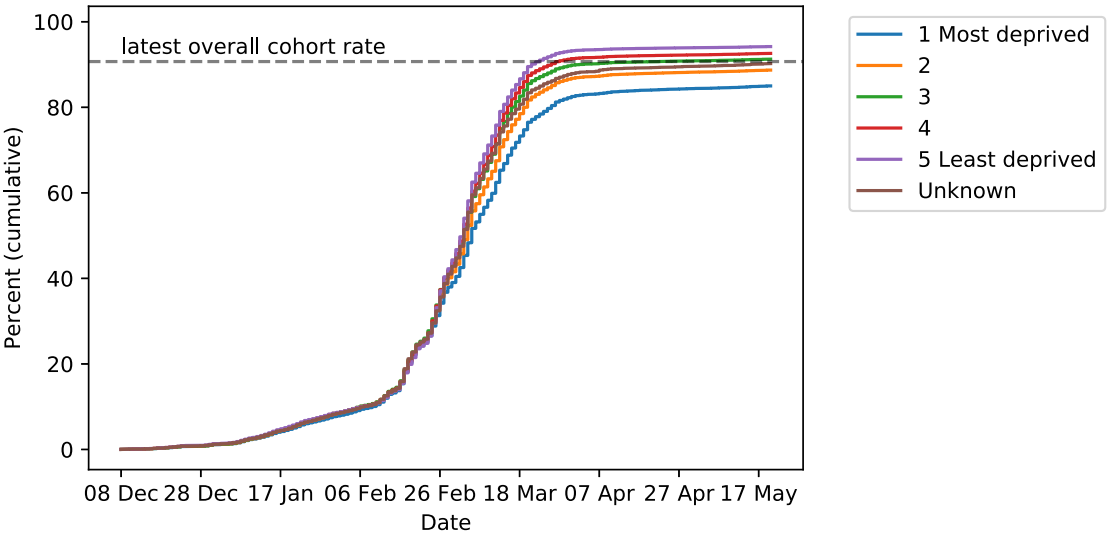
COVID vaccinations among 60-64 population

by BMI
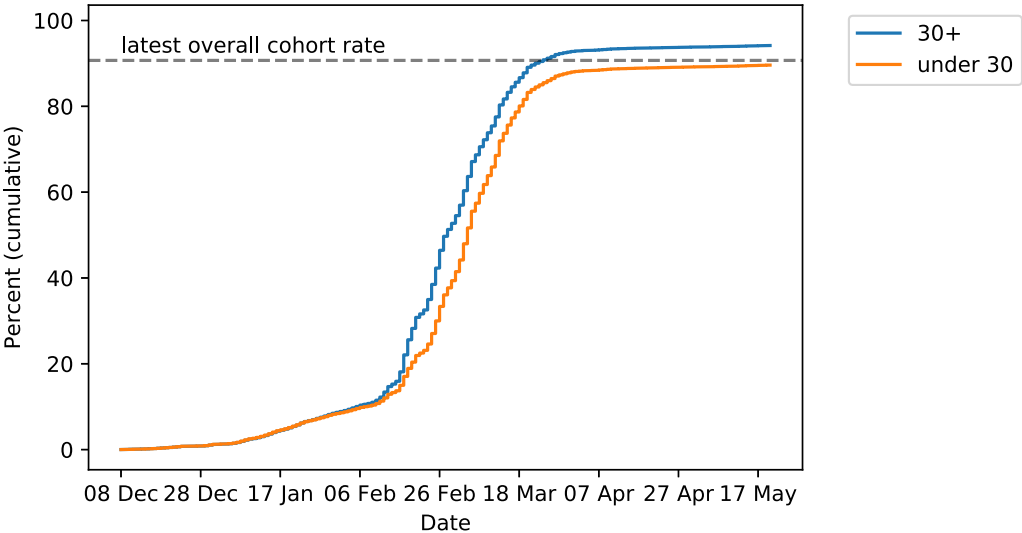
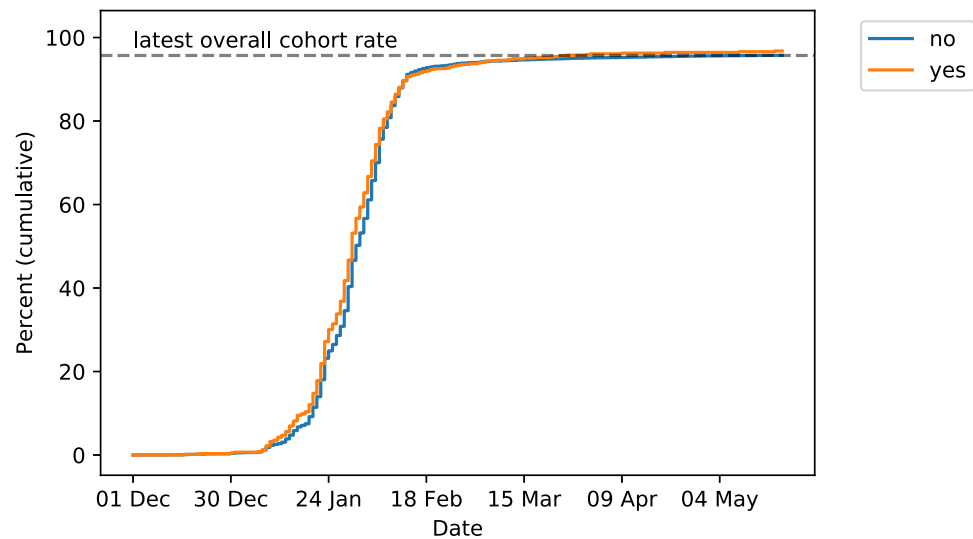## COVID vaccinations among 60-64 population

by Chronic cardiac disease
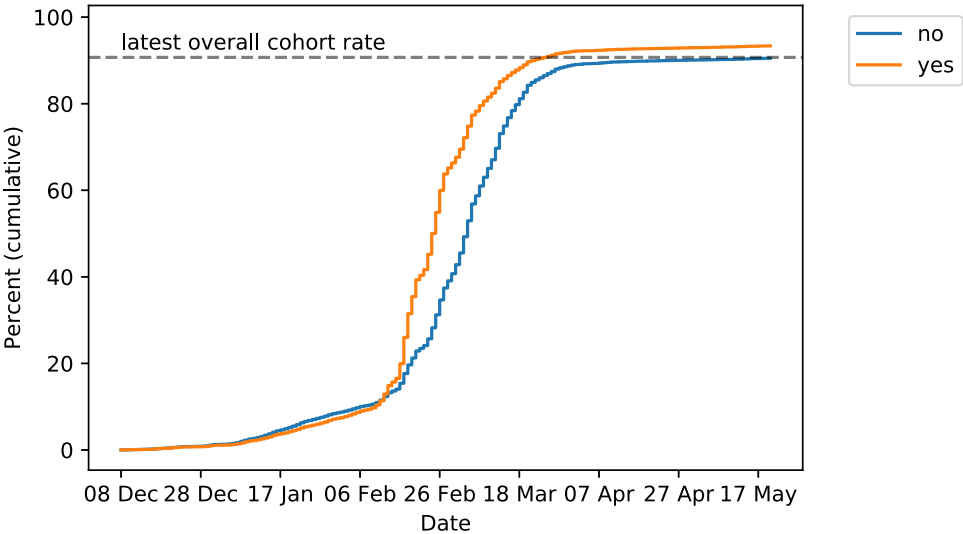
COVID vaccinations among 60-64 population

by Current COPD
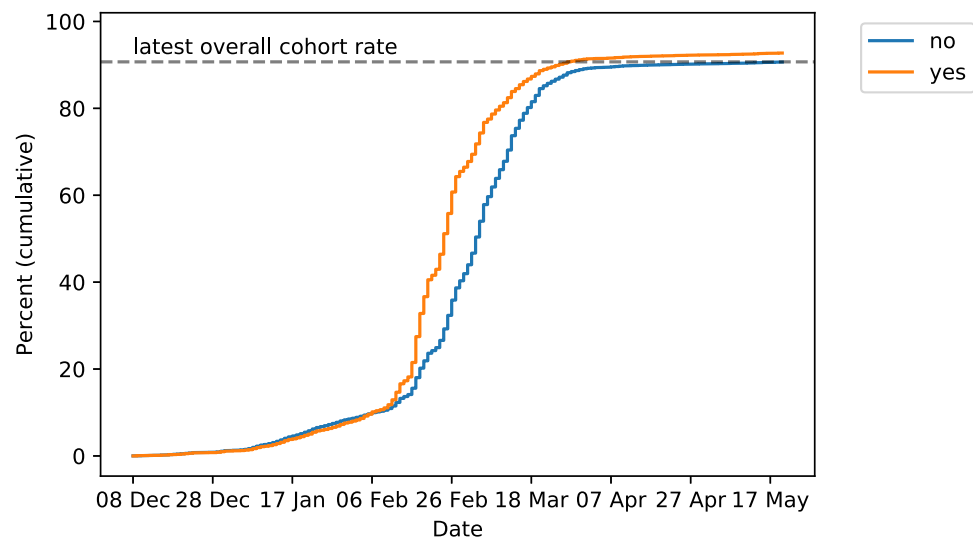
COVID vaccinations among 60-64 population

by Dementia
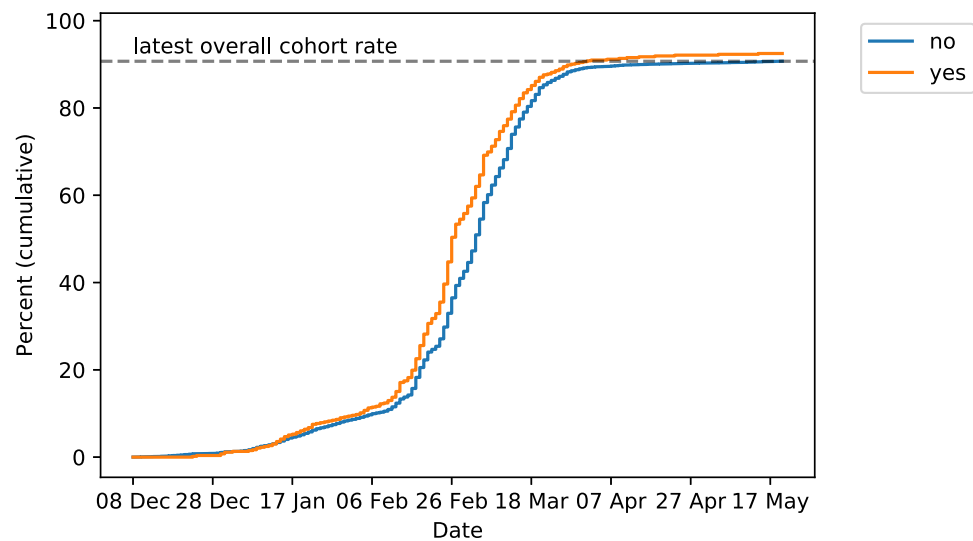
COVID vaccinations among 60-64 population

by Psychosis, schizophrenia, or bipolar
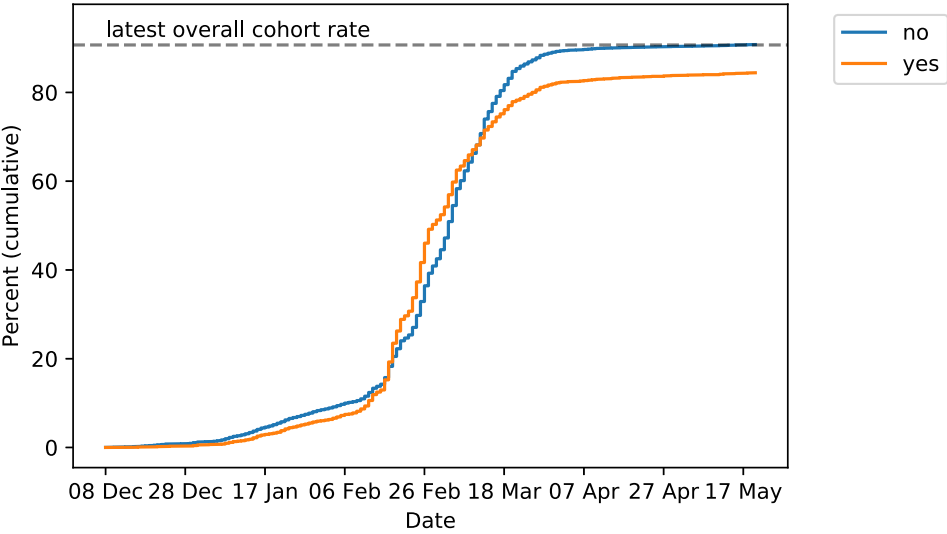
COVID vaccinations among 60-64 population

by SSRI (last 12 months)
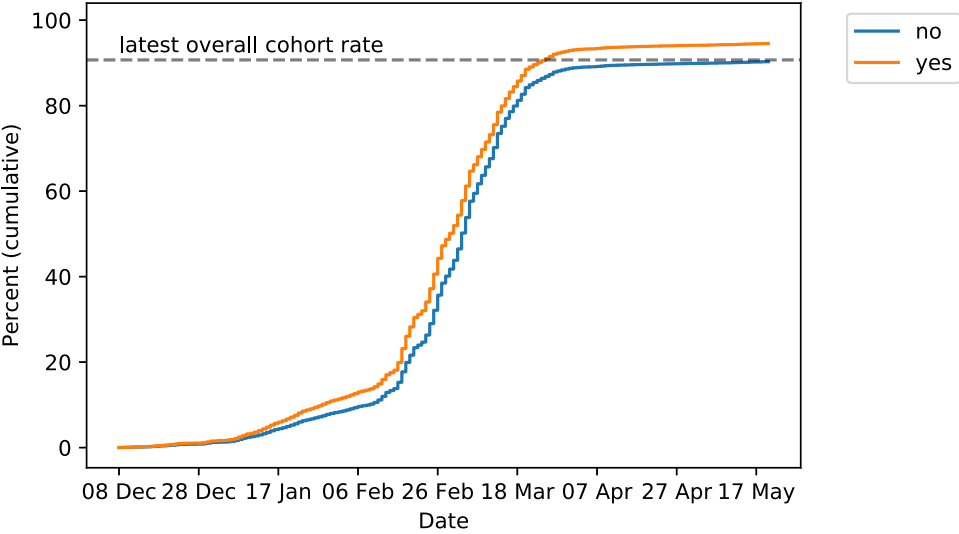
Trends in vaccination rates of 55-59 population according to demographic/clinical features, cumulatively by day.

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

55-59 population

COVID vaccinations among 55-59 population

by Sex
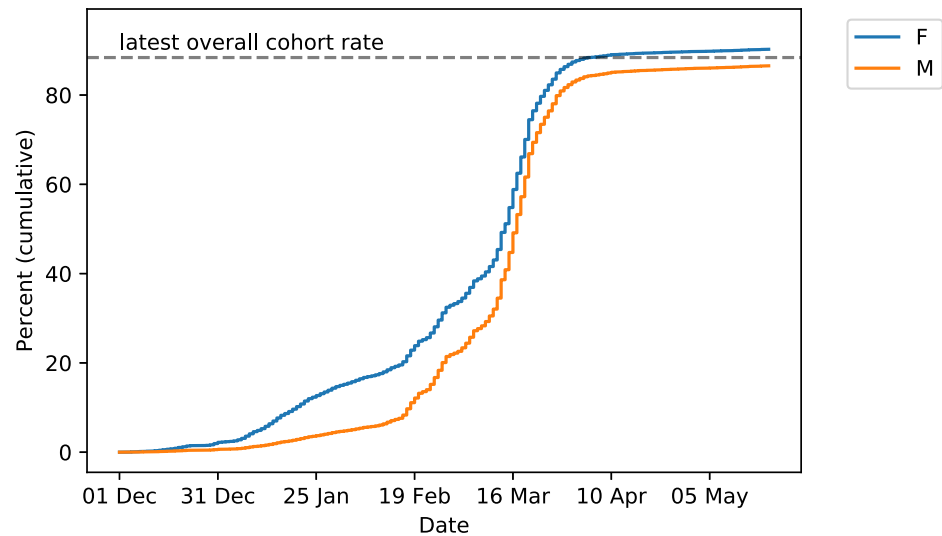
COVID vaccinations among 55-59 population

by Ethnicity (broad categories)
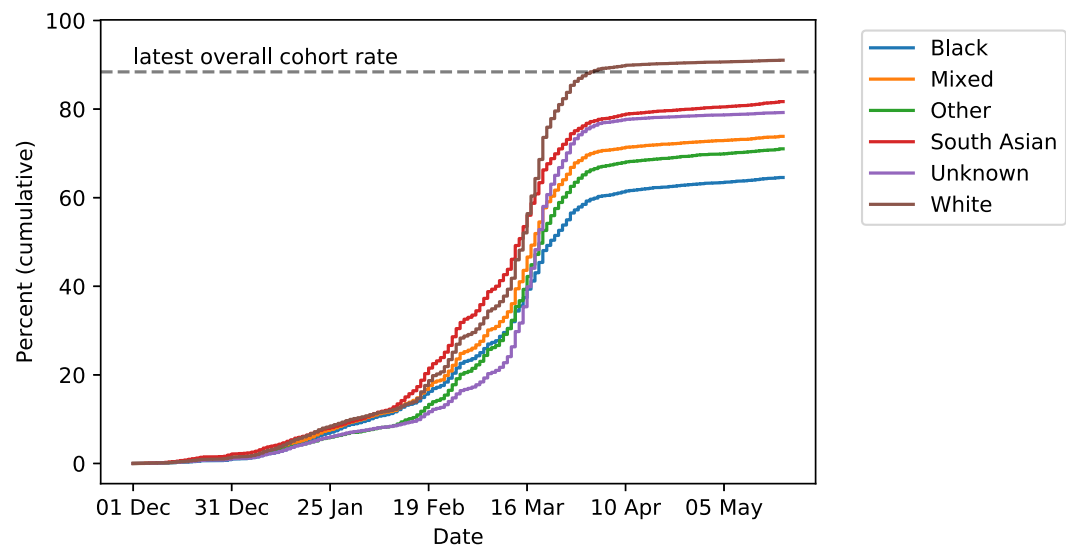
COVID vaccinations among 55-59 population

by Index of Multiple Deprivation (quintiles)
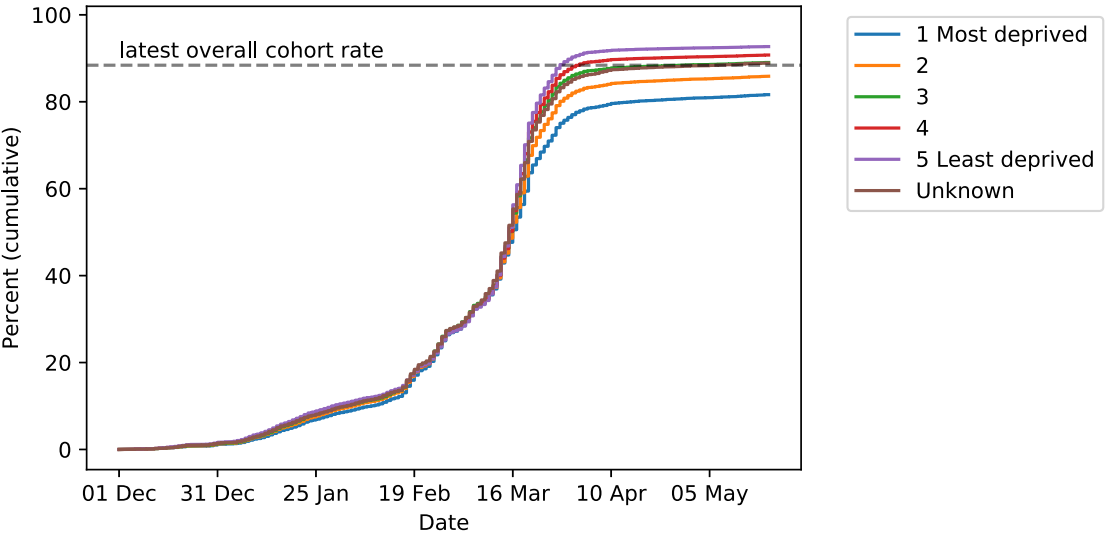
COVID vaccinations among 55-59 population

by BMI
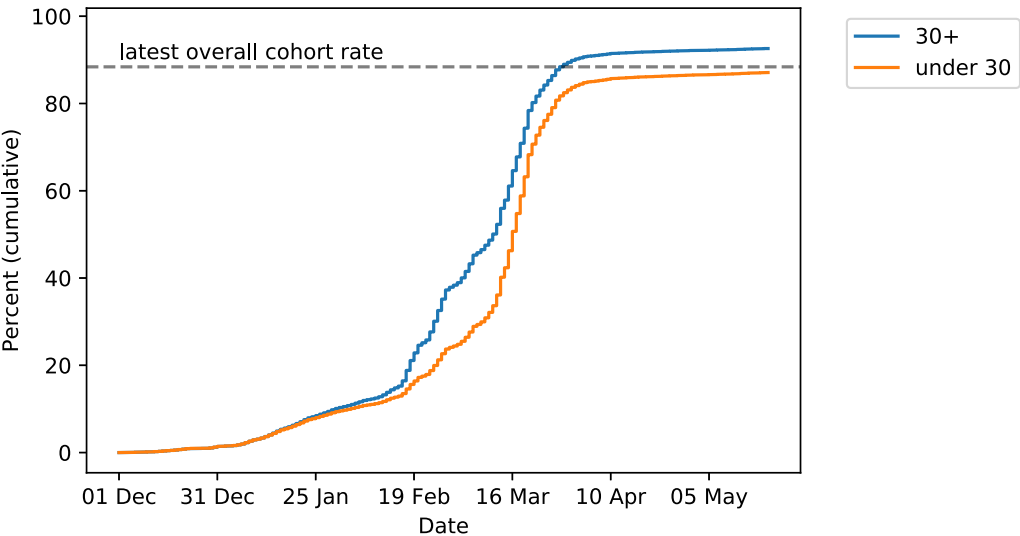
COVID vaccinations among 55-59 population

by Chronic cardiac disease
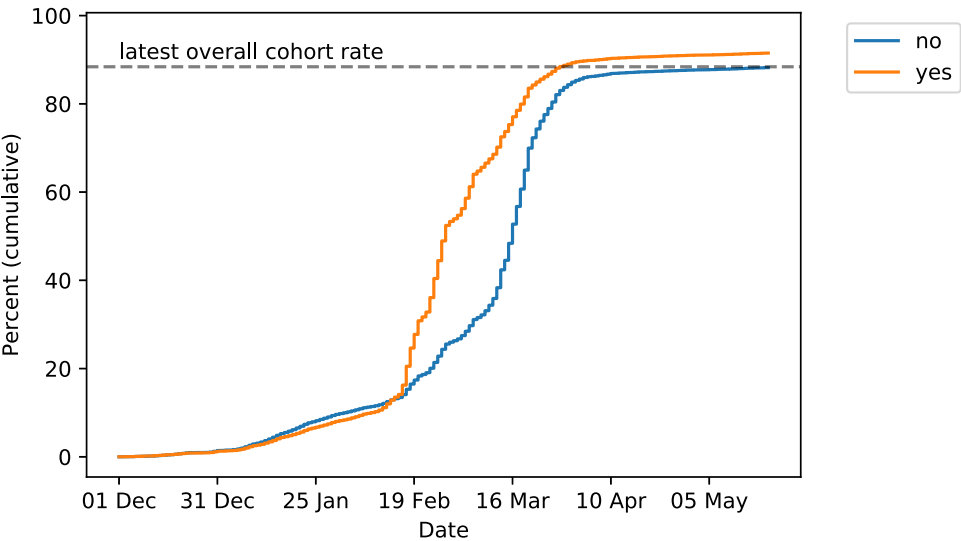
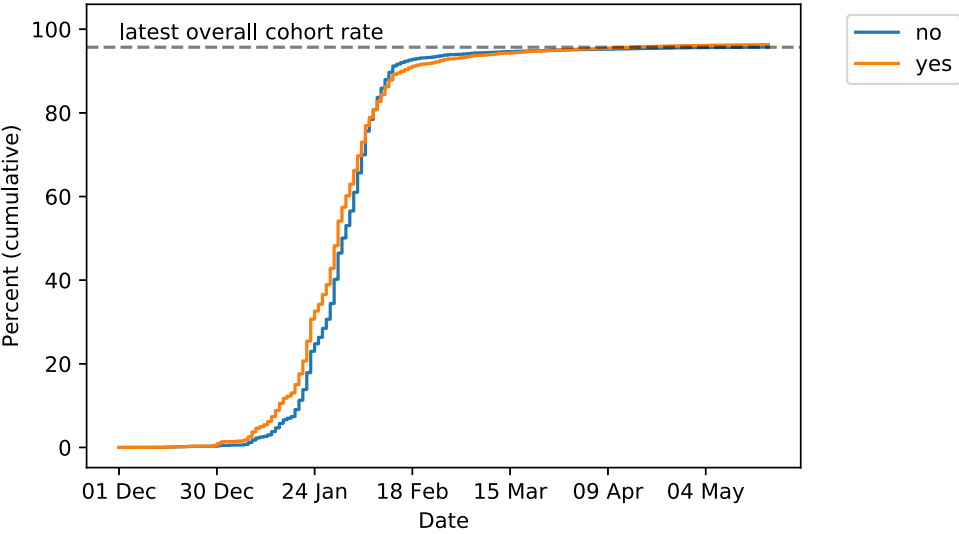## COVID vaccinations among 55-59 population

by Current COPD
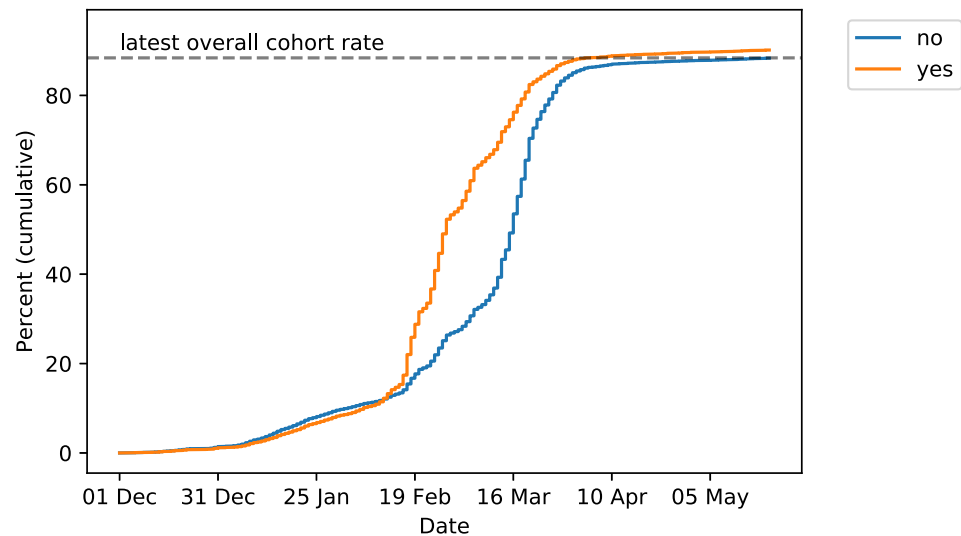
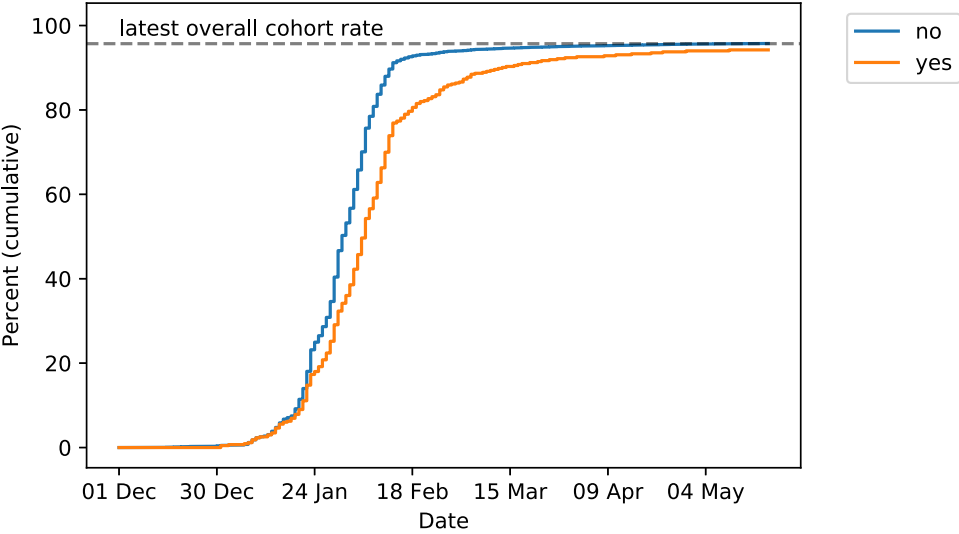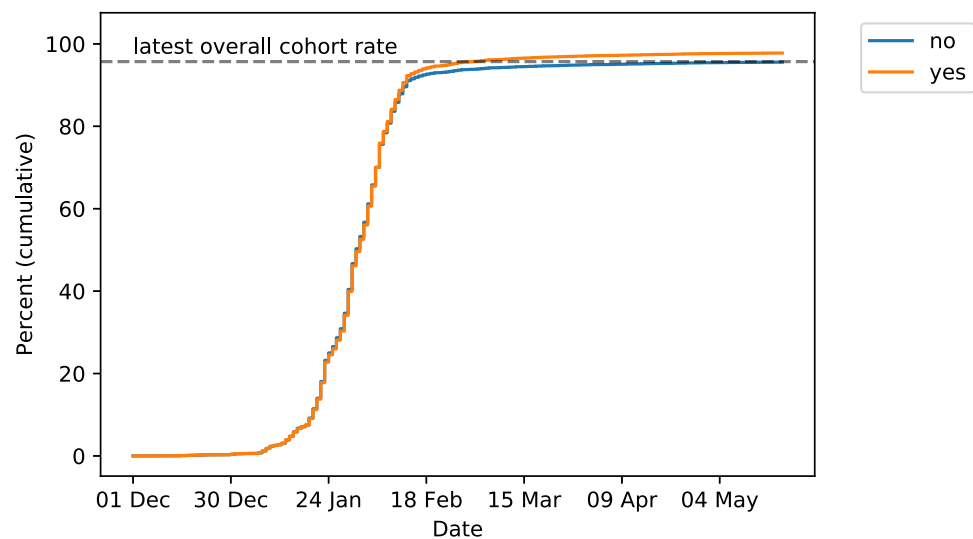## COVID vaccinations among 55-59 population

by Psychosis, schizophrenia, or bipolar
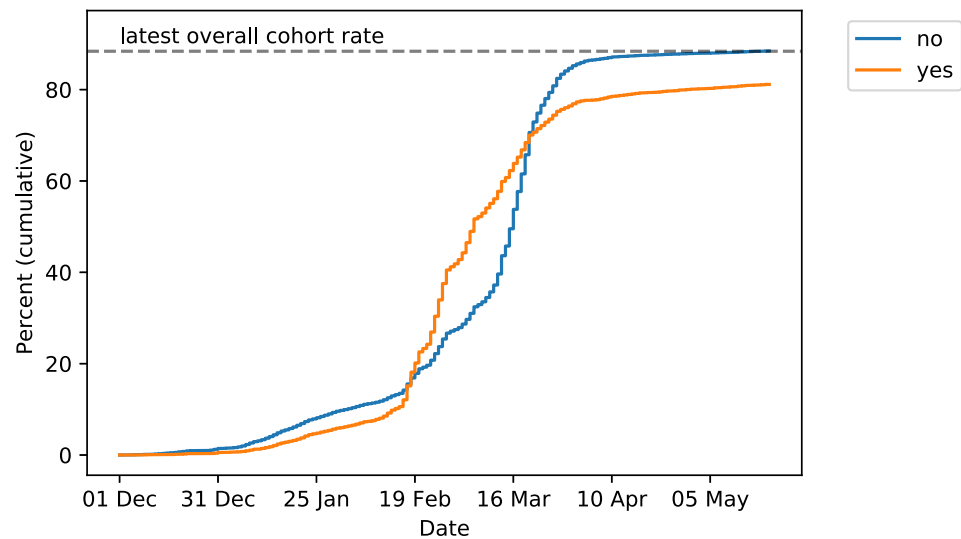
COVID vaccinations among 55-59 population

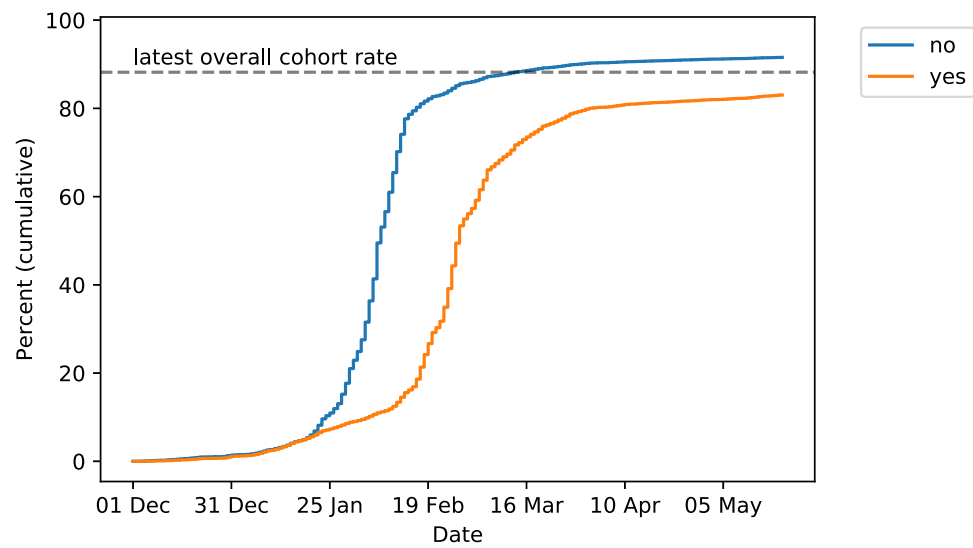## by SSRI (last 12 months)
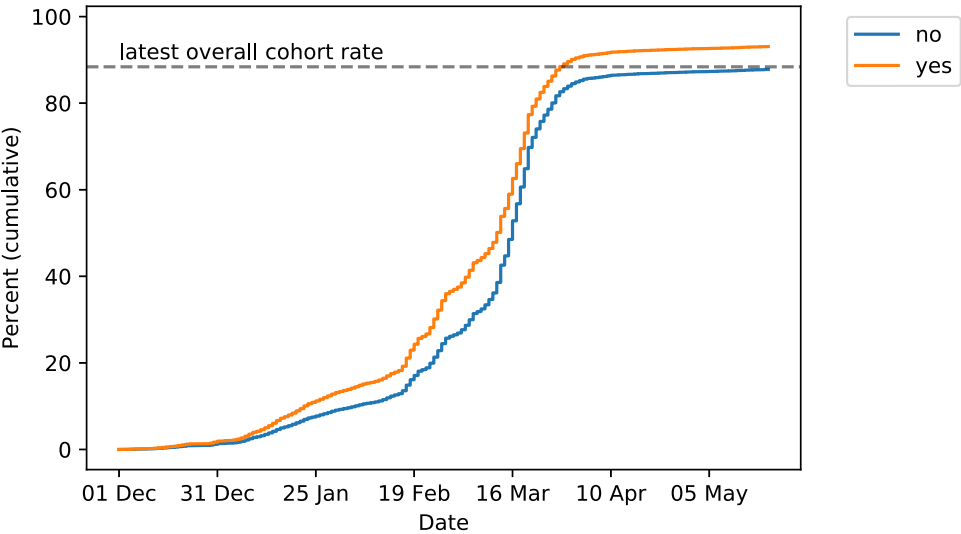
Trends in vaccination rates of 50-54 population according to demographic/clinical features, cumulatively by day.

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

50-54 population

COVID vaccinations among 50-54 population

by Sex
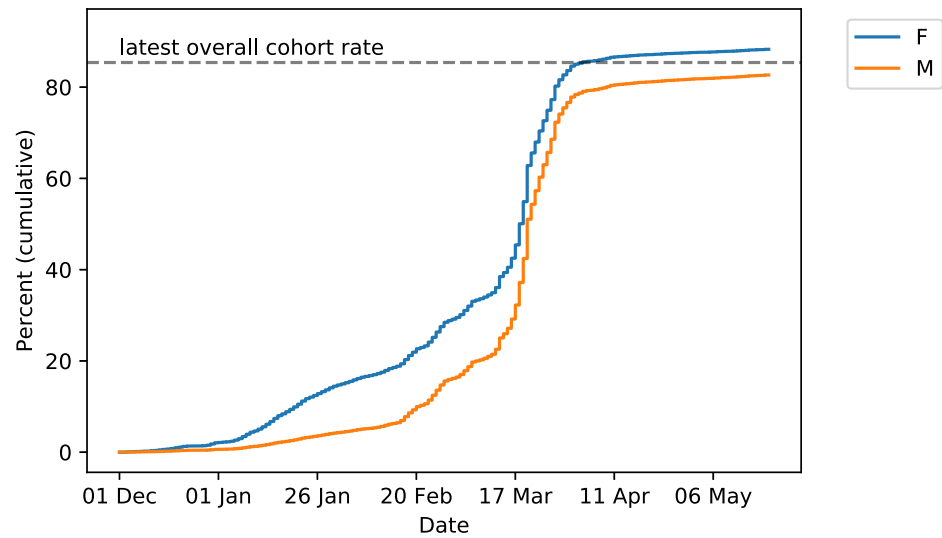
COVID vaccinations among 50-54 population

by Ethnicity (broad categories)
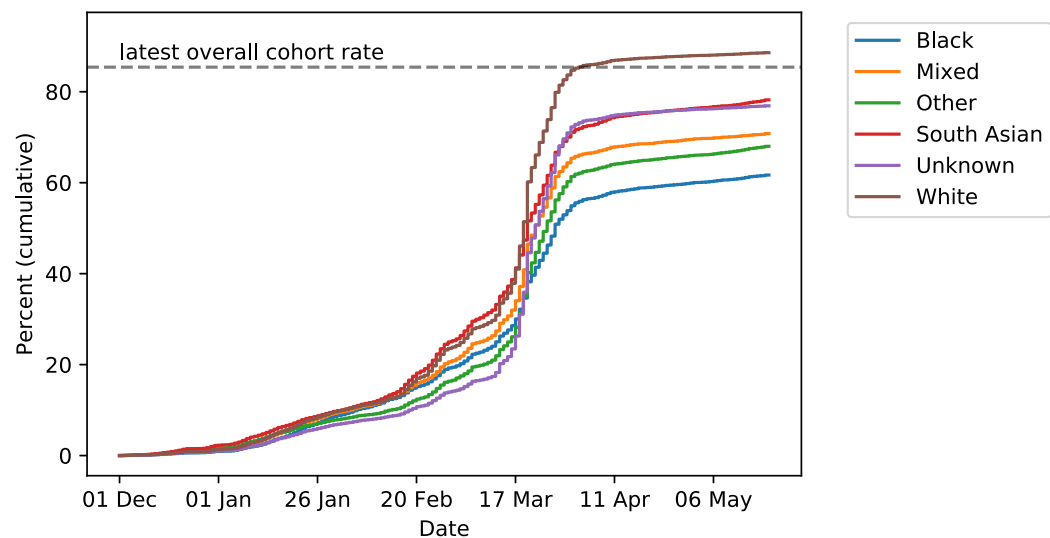
COVID vaccinations among 50-54 population

by Index of Multiple Deprivation (quintiles)
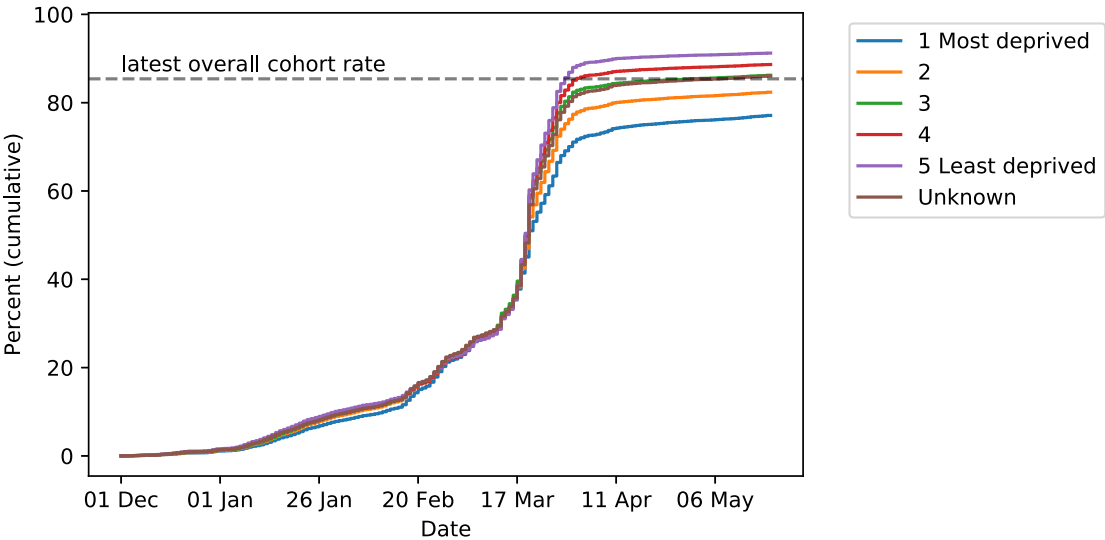
COVID vaccinations among 50-54 population

by BMI
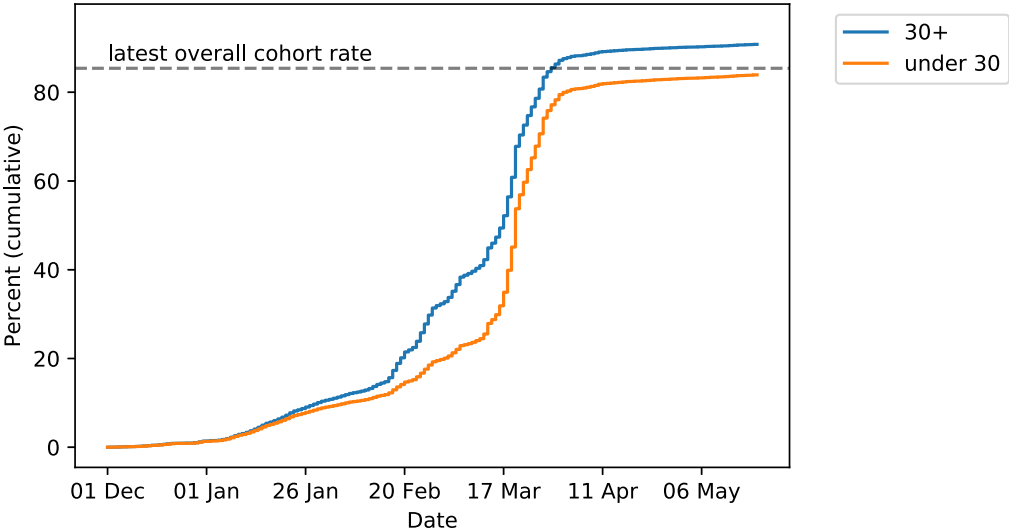
COVID vaccinations among 50-54 population

by Chronic cardiac disease
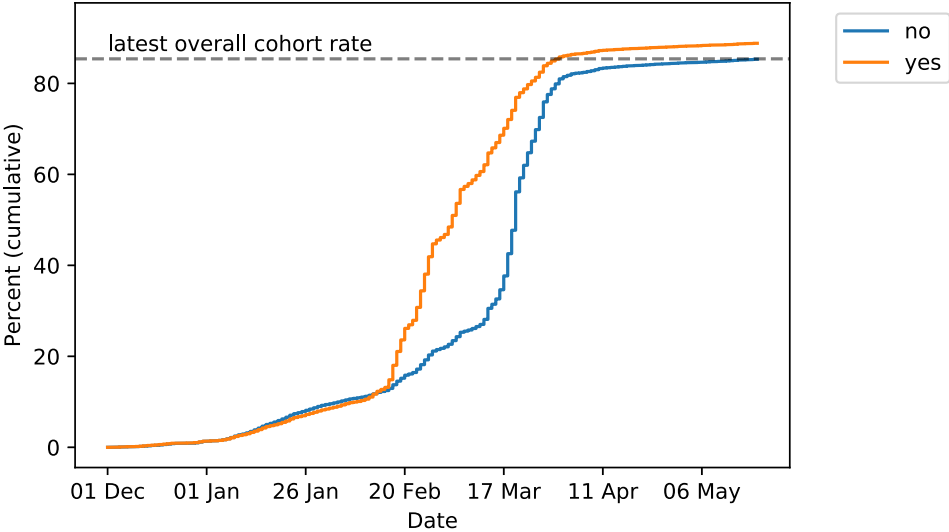
COVID vaccinations among 50-54 population

by Current COPD
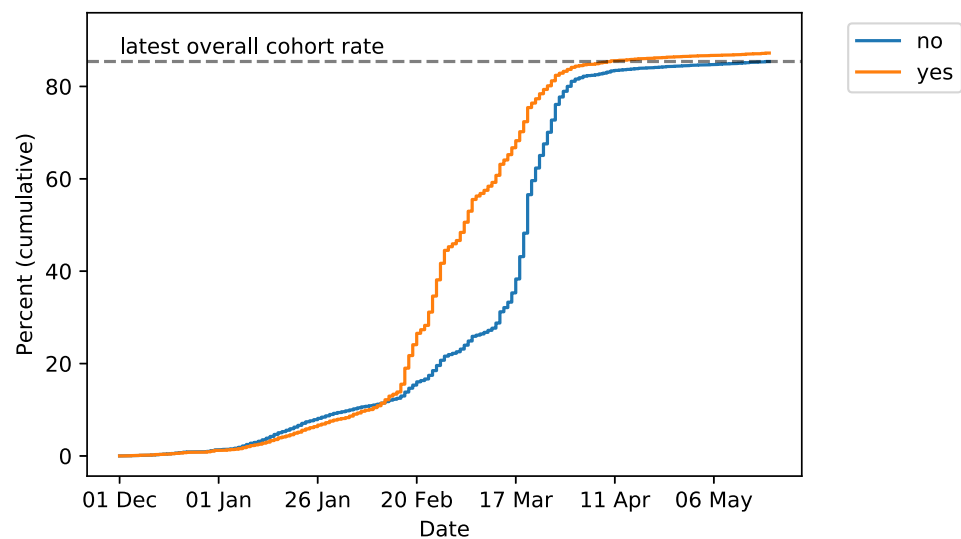
COVID vaccinations among 50-54 population

by Psychosis, schizophrenia, or bipolar
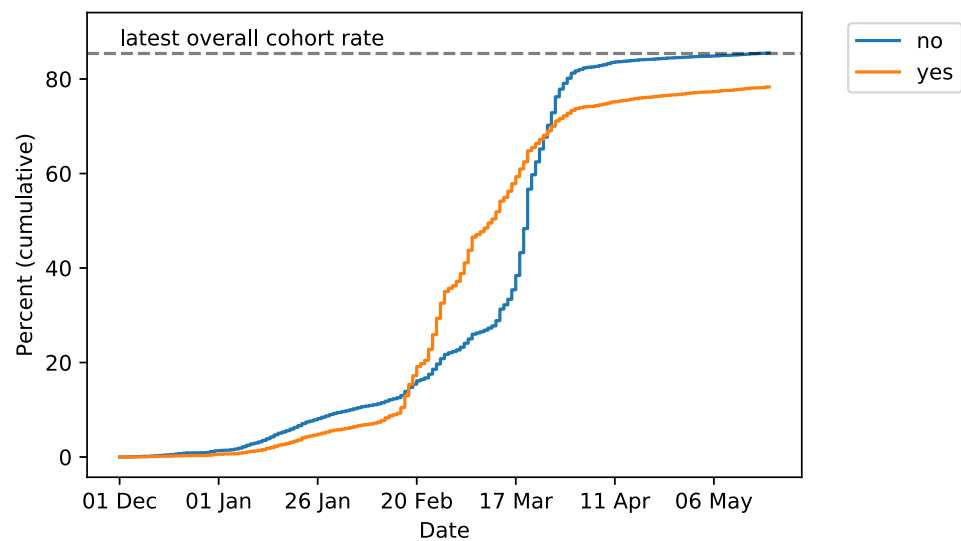
COVID vaccinations among 50-54 population

by SSRI (last 12 months)
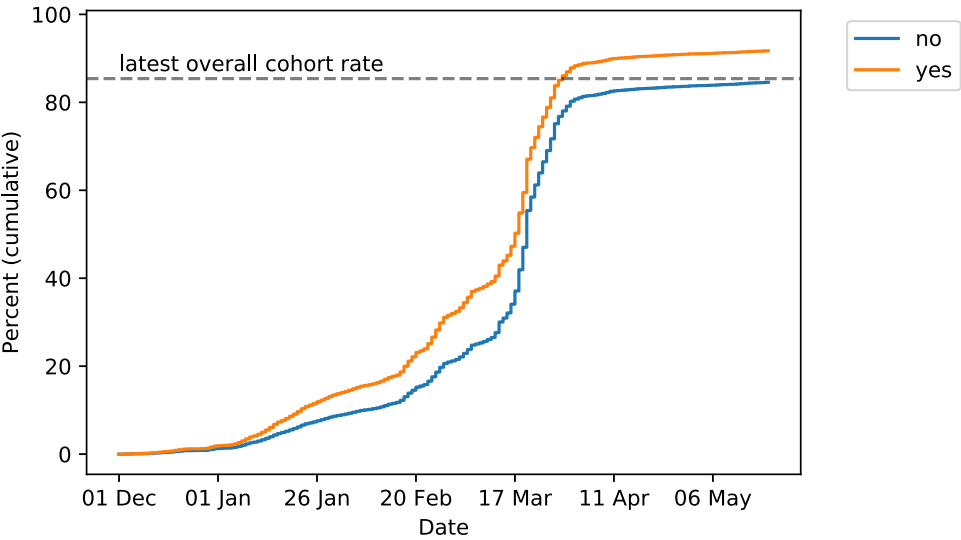
Vaccination rates of each eligible population group, according to demographic/clinical features

Cumulative vaccination figures among 80+ population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	1073703	96.3	1115520	96.2	0.1
Sex	F	622279	96.2	647010	96.1	0.1
	M	451416	96.4	468510	96.3	0.1
Age band	80-84	567196	96.5	587811	96.5	0.0
	85-89	335468	96.4	348145	96.3	0.1
	90+	171031	95.2	179564	95.2	0.0
Ethnicity (broad categories)	Black	8365	75.9	11025	75.7	0.2
	Mixed	2730	83.9	3255	83.9	0.0
	Other	5621	83.4	6741	83.3	0.1
	South Asian	24689	87.5	28217	87.3	0.2
	Unknown	53984	87.0	62055	87.0	0.0
	White	978313	97.4	1004227	97.4	0.0
ethnicity 16 groups	African	1400	66.9	2093	66.9	0.0
	Bangladeshi or British Bangladeshi	1078	83.2	1295	83.2	0.0
	Caribbean	5978	78.7	7595	78.6	0.1
	Chinese	1344	80.0	1680	80.0	0.0
	Other	4277	84.6	5054	84.3	0.3
	Other Asian	3675	84.0	4375	84.0	0.0
	British or Mixed British	929327	97.7	951440	97.7	0.0
	Indian or British Indian	13650	91.8	14868	91.7	0.1
	Irish	9191	95.4	9639	95.4	0.0
	Other Black	980	72.9	1344	72.9	0.0
	Other White	39795	92.2	43155	92.2	0.0
	Other mixed	1008	87.8	1148	87.8	0.0
	Pakistani or British Pakistani	6286	81.9	7679	81.7	0.2
	Unknown	53977	87.0	62048	87.0	0.0
	White + Asian	476	88.3	539	88.3	0.0
	White + Black African	273	73.6	371	73.6	0.0
	White + Black Caribbean	973	81.3	1197	81.3	0.0
Index of Multiple Deprivation (quintiles)	1 Most deprived	134260	93.4	143815	93.3	0.1
	2	177520	95.2	186389	95.2	0.0
	3	240415	96.5	249025	96.5	0.0
	4	250362	97.0	258048	97.0	0.0
	5 Least deprived	251895	97.6	258118	97.6	0.0
	Unknown	19250	95.7	20118	95.7	0.0
BMI	30+	189161	97.5	194089	97.4	0.1
	under 30	884541	96.0	921431	96.0	0.0
Chronic cardiac disease	no	747607	95.8	780542	95.8	0.0
	yes	326088	97.3	334978	97.3	0.0
Current COPD	no	960267	96.1	999082	96.1	0.0
	yes	113435	97.4	116431	97.4	0.0

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
Dialysis	no	1071707	96.2	1113469	96.2	0.0
	yes	1988	96.9	2051	96.9	0.0
DMARDs	no	1039878	96.2	1081038	96.2	0.0
	yes	33824	98.1	34482	98.1	0.0
Dementia	no	982968	96.2	1021440	96.2	0.0
	yes	90727	96.4	94080	96.4	0.0
Psychosis, schizophrenia, or bipolar	no	1065680	96.3	1106896	96.2	0.1
	yes	8022	93.0	8624	92.9	0.1
Learning disability	no	1073198	96.3	1114981	96.2	0.1
	yes	504	94.7	532	94.7	0.0
SSRI (last 12 months)	no	1006243	96.1	1046675	96.1	0.0
	yes	67459	98.0	68838	98.0	0.0
Chemo or radiotherapy	no	1036896	96.2	1077895	96.2	0.0
	yes	36799	97.8	37618	97.8	0.0
Cancer (lung)	no	1066345	96.2	1107974	96.2	0.0
	yes	7350	97.5	7539	97.5	0.0
Cancer (excluding lung/haem)	no	877821	95.9	915068	95.9	0.0
	yes	195881	97.7	200452	97.7	0.0
Cancer (haematological)	no	1053584	96.2	1094933	96.2	0.0
	yes	20111	97.7	20580	97.7	0.0

Footnotes:

- 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, LD, or Dementia.

Cumulative vaccination figures among 70-79 population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	1980664	95.7	2068836	95.7	0.0
Sex	F	1040515	95.9	1085385	95.8	0.1
	M	940142	95.6	983444	95.6	0.0
Age band	70-74	1145991	95.3	1202033	95.3	0.0
	75-79	834666	96.3	866796	96.3	0.0
Ethnicity (broad categories)	Black	10738	73.1	14686	72.9	0.2
	Mixed	5341	82.8	6447	82.6	0.2
	Other	12418	80.9	15358	80.6	0.3
	South Asian	48160	87.7	54915	87.5	0.2
	Unknown	127253	88.9	143185	88.8	0.1
	White	1776747	96.9	1834245	96.8	0.1
ethnicity 16 groups	African	3549	67.6	5250	67.2	0.4
	Bangladeshi or British Bangladeshi	1568	85.8	1827	85.4	0.4
	Caribbean	5320	76.5	6951	76.4	0.1
	Chinese	3248	79.9	4067	79.7	0.2
	Other	9156	81.2	11277	80.9	0.3
	Other Asian	9471	84.9	11158	84.7	0.2
	British or Mixed British	1689240	97.3	1736147	97.3	0.0
	Indian or British Indian	27643	91.2	30303	91.1	0.1
	Irish	14322	94.1	15225	94.0	0.1
	Other Black	1869	75.2	2485	75.2	0.0
	Other White	73234	88.3	82936	88.2	0.1
	Other mixed	2121	84.6	2506	84.6	0.0
	Pakistani or British Pakistani	9464	81.4	11620	81.0	0.4
	Unknown	127225	88.9	143157	88.8	0.1
	White + Asian	1204	88.2	1365	88.2	0.0
	White + Black African	826	76.6	1078	76.6	0.0
	White + Black Caribbean	1183	79.3	1491	79.3	0.0
Index of Multiple Deprivation (quintiles)	1 Most deprived	252742	93.0	271831	92.9	0.1
	2	331751	94.7	350413	94.6	0.1
	3	442274	96.0	460901	95.9	0.1
	4	460719	96.5	477491	96.5	0.0
	5 Least deprived	456225	97.2	469231	97.2	0.0
	Unknown	36953	94.8	38962	94.8	0.0
BMI	30+	497448	97.1	512092	97.1	0.0
	under 30	1483209	95.3	1556737	95.2	0.1
Chronic cardiac disease	no	1619268	95.5	1695995	95.4	0.1
	yes	361396	96.9	372841	96.9	0.0
Current COPD	no	1789851	95.6	1872157	95.6	0.0
	yes	190806	97.0	196672	97.0	0.0
Dialysis	no	1976674	95.7	2064706	95.7	0.0

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
	yes	3990	96.8	4123	96.6	0.2
DMARDs	no	1909754	95.7	1996372	95.6	0.1
	yes	70903	97.8	72464	97.8	0.0
Dementia	no	1938034	95.7	2024582	95.7	0.0
	yes	42623	96.3	44247	96.3	0.0
Psychosis, schizophrenia, or bipolar	no	1961897	95.8	2048340	95.7	0.1
	yes	18760	91.6	20489	91.4	0.2
Learning disability	no	1977801	95.7	2065798	95.7	0.0
	yes	2856	94.2	3031	94.2	0.0
SSRI (last 12 months)	no	1828344	95.6	1913051	95.5	0.1
	yes	152313	97.8	155778	97.7	0.1
Chemo or radiotherapy	no	1912456	95.7	1998955	95.6	0.1
	yes	68201	97.6	69874	97.6	0.0
Cancer (lung)	no	1968183	95.7	2055998	95.7	0.0
	yes	12474	97.2	12831	97.2	0.0
Cancer (excluding lung/haem)	no	1699404	95.4	1780429	95.4	0.0
	yes	281253	97.5	288407	97.5	0.0
Cancer (haematological)	no	1950802	95.7	2038183	95.7	0.0
	yes	29855	97.4	30646	97.4	0.0

Footnotes:

- 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, LD, or Dementia.

Cumulative vaccination figures among care home population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	81835	96.5	84847	96.4	0.1
Sex	F	58205	96.7	60186	96.6	0.1
	M	23632	95.8	24661	95.7	0.1
Age band	65-69	4522	93.9	4816	93.6	0.3
	70-74	6965	94.6	7364	94.5	0.1
	75-79	9660	96.1	10052	96.0	0.1
	80-84	14399	96.8	14882	96.7	0.1
	85-89	19166	96.7	19817	96.7	0.0
	90+	27125	97.1	27923	97.1	0.0
Ethnicity (broad categories)	Black	413	88.1	469	88.1	0.0
	Mixed	210	93.8	224	93.8	0.0
	Other	343	94.2	364	94.2	0.0
	South Asian	630	93.8	672	92.7	1.1
	Unknown	2058	92.5	2226	92.5	0.0
	White	78183	96.7	80885	96.6	0.1
Dementia	no	36974	95.5	38710	95.4	0.1
	yes	44863	97.3	46130	97.2	0.1

Footnotes:

- 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

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	732493	88.2	830613	87.9	0.3
newly shielded since feb 15	no	459431	91.6	501760	91.4	0.2
	yes	273063	83.0	328853	82.6	0.4
Sex	F	407617	87.4	466312	87.1	0.3
	M	324870	89.2	364287	88.9	0.3
Age band	16-29	53228	76.5	69573	76.0	0.5
	30-39	101080	79.4	127351	78.8	0.6
	40-49	144284	86.8	166278	86.4	0.4
	50-59	208943	91.2	228998	91.0	0.2
	60-69	224945	94.4	238406	94.3	0.1
Ethnicity (broad categories)	Black	31101	69.8	44569	69.2	0.6
	Mixed	10829	75.4	14357	75.0	0.4
	Other	13867	76.1	18214	75.5	0.6
	South Asian	89089	82.1	108458	81.5	0.6
	Unknown	27692	86.1	32144	85.8	0.3
	White	559902	91.4	612864	91.2	0.2
Index of Multiple Deprivation (quintiles)	1 Most deprived	203994	83.5	244293	83.2	0.3
	2	163667	87.2	187698	86.9	0.3
	3	142135	90.0	157990	89.7	0.3
	4	114240	92.1	124019	91.9	0.2
	5 Least deprived	90622	94.0	96362	93.9	0.1
	Unknown	17822	88.1	20237	87.7	0.4
Learning disability	no	707756	88.1	803677	87.8	0.3
	yes	24731	91.8	26929	91.6	0.2

Footnotes:

- 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

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	998371	93.0	1073702	92.9	0.1
Sex	F	513632	93.5	549150	93.4	0.1
	M	484729	92.4	524545	92.3	0.1
Ethnicity (broad categories)	Black	7574	70.1	10801	69.9	0.2
	Mixed	3920	79.1	4956	78.8	0.3
	Other	9051	75.9	11921	75.7	0.2
	South Asian	37422	86.1	43442	85.8	0.3
	Unknown	84693	84.8	99834	84.7	0.1
	White	855708	94.8	902748	94.7	0.1
ethnicity 16 groups	African	2919	68.0	4291	67.7	0.3
	Bangladeshi or British Bangladeshi	1526	87.9	1736	87.5	0.4
	Caribbean	3157	70.4	4487	70.0	0.4
	Chinese	2891	76.2	3794	76.0	0.2
	Other	6160	75.8	8127	75.5	0.3
	Other Asian	6860	84.6	8106	84.4	0.2
	British or Mixed British	809942	95.8	845362	95.7	0.1
	Indian or British Indian	20496	89.7	22855	89.4	0.3
	Irish	5964	91.0	6552	90.9	0.1
	Other Black	1498	74.0	2023	73.7	0.3
	Other White	39802	78.3	50834	78.1	0.2
	Other mixed	1519	79.2	1918	78.8	0.4
	Pakistani or British Pakistani	8540	79.5	10745	78.8	0.7
	Unknown	84686	84.8	99827	84.7	0.1
	White + Asian	882	86.3	1022	86.3	0.0
	White + Black African	651	73.2	889	73.2	0.0
	White + Black Caribbean	861	76.9	1120	76.9	0.0
Index of Multiple Deprivation (quintiles)	1 Most deprived	135107	88.5	152684	88.3	0.2
	2	172081	91.3	188398	91.2	0.1
	3	221858	93.4	237622	93.3	0.1
	4	226849	94.3	240485	94.2	0.1
	5 Least deprived	221907	95.5	232330	95.4	0.1
	Unknown	20559	92.7	22169	92.5	0.2
BMI	30+	256011	95.4	268289	95.3	0.1
	under 30	742357	92.2	805406	92.1	0.1
Chronic cardiac disease	no	892073	92.8	961597	92.7	0.1
	yes	106288	94.8	112098	94.7	0.1
Current COPD	no	959945	92.9	1033039	92.8	0.1
	yes	38423	94.5	40656	94.4	0.1
DMARDs	no	979153	92.9	1053710	92.8	0.1
	yes	19215	96.1	19985	96.0	0.1
Dementia	no	992985	93.0	1067948	92.9	0.1

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
	yes	5383	93.7	5747	93.5	0.2
Psychosis, schizophrenia, or bipolar	no	988169	93.0	1062033	92.9	0.1
	yes	10199	87.5	11662	87.3	0.2
Learning disability	no	996051	93.0	1071182	92.9	0.1
	yes	2317	92.2	2513	91.9	0.3
SSRI (last 12 months)	no	910581	92.7	982275	92.6	0.1
	yes	87780	96.0	91420	95.9	0.1
Chemo or radiotherapy	no	979349	92.9	1053913	92.8	0.1
	yes	19019	96.1	19782	96.1	0.0
Cancer (lung)	no	996653	93.0	1071882	92.9	0.1
	yes	1715	94.6	1813	94.6	0.0
Cancer (excluding lung/haem)	no	913542	92.7	985229	92.6	0.1
	yes	84819	95.9	88466	95.8	0.1
Cancer (haematological)	no	994903	93.0	1070048	92.9	0.1
	yes	3465	95.0	3647	94.8	0.2

Footnotes:

- 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, LD, or Dementia.

Cumulative vaccination figures among LD (aged 16-64) population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	67745	82.6	81984	82.1	0.5
Sex	F	26320	85.1	30940	84.6	0.5
	M	41419	81.2	51037	80.6	0.6
Age band	16-29	25634	75.5	33971	74.8	0.7
	30-34	8659	81.7	10605	81.3	0.4
	35-39	6552	85.4	7672	84.9	0.5
	40-44	5313	88.4	6013	87.5	0.9
	45-49	5467	89.4	6118	88.8	0.6
	50-54	5894	91.3	6454	91.0	0.3
	55-59	5838	91.2	6398	91.0	0.2
	60-64	4396	92.5	4753	92.2	0.3
Ethnicity (broad categories)	Black	770	57.6	1337	57.1	0.5
	Mixed	707	65.2	1085	64.5	0.7
	Other	462	67.3	686	66.3	1.0
	South Asian	3206	68.5	4683	67.6	0.9
	Unknown	5250	79.8	6580	79.0	0.8
	White	57351	84.8	67613	84.4	0.4

Footnotes:

- Patient counts rounded to the nearest 7

- Population excludes those who are currently shielding.

Cumulative vaccination figures among 60-64 population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	1160456	90.7	1279257	90.5	0.2
Sex	F	585277	91.9	636790	91.7	0.2
	M	575176	89.5	642453	89.4	0.1
Ethnicity (broad categories)	Black	13139	67.3	19537	66.8	0.5
	Mixed	6104	76.7	7959	76.5	0.2
	Other	11879	73.0	16268	72.6	0.4
	South Asian	44282	84.3	52549	83.8	0.5
	Unknown	114387	82.1	139286	82.0	0.1
	White	970648	93.0	1043644	92.9	0.1
ethnicity 16 groups	African	5250	68.2	7693	67.7	0.5
	Bangladeshi or British Bangladeshi	1974	87.3	2261	86.7	0.6
	Caribbean	5110	65.2	7833	64.8	0.4
	Chinese	3647	76.5	4767	76.1	0.4
	Other	8232	71.6	11494	71.2	0.4
	Other Asian	9156	82.2	11137	81.8	0.4
	British or Mixed British	913619	94.5	966686	94.4	0.1
	Indian or British Indian	23163	87.8	26376	87.5	0.3
	Irish	5754	87.7	6559	87.5	0.2
	Other Black	2779	69.3	4011	68.8	0.5
	Other White	51275	72.8	70392	72.5	0.3
	Other mixed	2310	76.0	3038	75.8	0.2
	Pakistani or British Pakistani	9996	78.3	12768	77.5	0.8
	Unknown	114401	82.1	139293	82.0	0.1
	White + Asian	1260	85.7	1470	85.7	0.0
	White + Black African	1099	74.1	1484	74.1	0.0
	White + Black Caribbean	1435	73.0	1967	72.6	0.4
Index of Multiple Deprivation (quintiles)	1 Most deprived	168252	85.0	197939	84.7	0.3
	2	205268	88.7	231406	88.5	0.2
	3	253869	91.3	278180	91.1	0.2
	4	259140	92.6	279825	92.5	0.1
	5 Least deprived	250012	94.2	265398	94.1	0.1
	Unknown	23905	90.2	26495	89.9	0.3
BMI	30+	292635	94.2	310751	94.0	0.2
	under 30	867818	89.6	968492	89.4	0.2
Chronic cardiac disease	no	1072379	90.5	1184911	90.3	0.2
	yes	88067	93.4	94332	93.2	0.2
Current COPD	no	1128407	90.7	1244684	90.5	0.2
	yes	32046	92.7	34559	92.5	0.2
DMARDs	no	1140601	90.6	1258355	90.5	0.1
	yes	19845	95.0	20888	94.9	0.1
Dementia	no	1157002	90.7	1275519	90.5	0.2

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
	yes	3444	92.5	3724	92.3	0.2
Psychosis, schizophrenia, or bipolar	no	1147993	90.8	1264494	90.6	0.2
	yes	12453	84.4	14749	84.2	0.2
SSRI (last 12 months)	no	1038079	90.3	1149806	90.1	0.2
	yes	122367	94.5	129437	94.4	0.1
Chemo or radiotherapy	no	1143233	90.6	1261169	90.5	0.1
	yes	17213	95.2	18074	95.1	0.1
Cancer (lung)	no	1159361	90.7	1278053	90.5	0.2
	yes	1085	91.2	1190	90.6	0.6
Cancer (excluding lung/haem)	no	1091615	90.5	1206562	90.3	0.2
	yes	68838	94.7	72681	94.6	0.1
Cancer (haematological)	no	1157324	90.7	1275911	90.5	0.2
	yes	3122	93.7	3332	93.5	0.2

Footnotes:

- Patient counts rounded to the nearest 7

- Population excludes those who are currently shielding.

- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, LD, or Dementia.

Cumulative vaccination figures among 55-59 population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	1336755	88.4	1512735	88.2	0.2
Sex	F	671237	90.2	743757	90.1	0.1
	M	665511	86.5	768964	86.3	0.2
Ethnicity (broad categories)	Black	20006	64.6	30989	64.1	0.5
	Mixed	9072	73.8	12285	73.4	0.4
	Other	15722	71.0	22134	70.5	0.5
	South Asian	49035	81.7	60025	81.1	0.6
	Unknown	134309	79.2	169526	79.0	0.2
	White	1108604	91.0	1217769	90.9	0.1
ethnicity 16 groups	African	8505	66.7	12747	66.2	0.5
	Bangladeshi or British Bangladeshi	2527	84.1	3003	83.7	0.4
	Caribbean	6727	61.2	10990	60.8	0.4
	Chinese	4648	75.5	6160	75.0	0.5
	Other	11067	69.3	15974	68.8	0.5
	Other Asian	11984	80.3	14931	79.7	0.6
	British or Mixed British	1038499	92.8	1118761	92.7	0.1
	Indian or British Indian	24423	85.9	28420	85.5	0.4
	Irish	6538	84.8	7707	84.6	0.2
	Other Black	4774	65.9	7245	65.4	0.5
	Other White	63595	69.6	91322	69.3	0.3
	Other mixed	3192	73.7	4333	73.3	0.4
	Pakistani or British Pakistani	10108	73.9	13678	72.8	1.1
	Unknown	134295	79.2	169519	79.0	0.2
	White + Asian	1862	82.1	2268	81.5	0.6
	White + Black African	1652	70.9	2331	70.3	0.6
	White + Black Caribbean	2352	70.6	3332	70.4	0.2
Index of Multiple Deprivation (quintiles)	1 Most deprived	200130	81.6	245175	81.3	0.3
	2	237104	85.9	276150	85.6	0.3
	3	289009	89.0	324646	88.8	0.2
	4	295561	90.7	325703	90.6	0.1
	5 Least deprived	287721	92.7	310422	92.6	0.1
	Unknown	27223	88.9	30625	88.7	0.2
BMI	30+	324044	92.6	349965	92.4	0.2
	under 30	1012704	87.1	1162756	86.9	0.2
Chronic cardiac disease	no	1269975	88.2	1439746	88.0	0.2
	yes	66773	91.5	72975	91.3	0.2
Current COPD	no	1311695	88.3	1484931	88.1	0.2
	yes	25053	90.2	27790	90.0	0.2
DMARDs	no	1316882	88.3	1491469	88.1	0.2
	yes	19866	93.5	21252	93.3	0.2
Psychosis,	no	1321481	88.5	1493905	88.3	0.2

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
schizophrenia, or bipolar	**yes**	15267	81.1	18816	80.8	0.3
SSRI (last 12 months)	**no**	1180536	87.8	1344882	87.6	0.2
	yes	156212	93.1	167839	92.9	0.2

Footnotes:

- Patient counts rounded to the nearest 7

- Population excludes those who are currently shielding.

- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, LD, or Dementia.

Cumulative vaccination figures among 50-54 population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
overall	overall	1335688	85.4	1563779	85.1	0.3
Sex	F	673666	88.3	762944	88.0	0.3
	M	662011	82.7	800814	82.3	0.4
Ethnicity (broad categories)	Black	23198	61.7	37611	61.0	0.7
	Mixed	10850	70.8	15323	70.3	0.5
	Other	19390	68.0	28518	67.2	0.8
	South Asian	66878	78.2	85512	77.3	0.9
	Unknown	144585	76.9	188027	76.6	0.3
	White	1070776	88.6	1208767	88.3	0.3
ethnicity 16 groups	African	12684	63.9	19838	63.1	0.8
	Bangladeshi or British Bangladeshi	4095	83.2	4921	82.4	0.8
	Caribbean	5257	55.8	9415	55.4	0.4
	Chinese	5103	74.4	6860	73.7	0.7
	Other	14280	66.0	21644	65.1	0.9
	Other Asian	16198	77.5	20888	76.8	0.7
	British or Mixed British	989373	91.1	1086183	90.9	0.2
	Indian or British Indian	29477	83.0	35497	82.3	0.7
	Irish	6447	82.2	7840	81.9	0.3
	Other Black	5257	63.0	8351	62.4	0.6
	Other White	74963	65.3	114751	64.8	0.5
	Other mixed	3899	69.7	5593	69.2	0.5
	Pakistani or British Pakistani	17115	70.7	24220	69.5	1.2
	Unknown	144592	76.9	188034	76.6	0.3
	White + Asian	2387	80.6	2961	79.9	0.7
	White + Black African	2226	67.2	3311	66.6	0.6
	White + Black Caribbean	2331	67.4	3458	67.0	0.4
Index of Multiple Deprivation (quintiles)	1 Most deprived	210147	77.1	272531	76.6	0.5
	2	240996	82.4	292558	82.0	0.4
	3	283052	86.2	328314	85.9	0.3
	4	289289	88.6	326340	88.4	0.2
	5 Least deprived	284704	91.2	312081	91.1	0.1
	Unknown	27482	86.1	31934	85.8	0.3
BMI	30+	308294	90.8	339556	90.5	0.3
	under 30	1027383	83.9	1224202	83.6	0.3
Chronic cardiac disease	no	1293187	85.3	1515927	85.0	0.3
	yes	42490	88.8	47838	88.6	0.2
Current COPD	no	1319325	85.4	1545012	85.1	0.3
	yes	16352	87.2	18746	86.9	0.3
DMARDs	no	1318450	85.3	1545061	85.0	0.3
	yes	17227	92.1	18697	92.0	0.1
Psychosis,	no	1320200	85.5	1543997	85.2	0.3

Category	Group	Vaccinated at 20 May (n)	Vaccinated at 20 May (%)	Total eligible	Previous week's vaccination coverage (%)	Vaccinated over last 7d (%)
schizophrenia, or bipolar	yes	15477	78.3	19761	77.9	0.4
SSRI (last 12 months)	no	1164289	84.6	1376879	84.2	0.4
	yes	171388	91.7	186879	91.5	0.2

Footnotes:

- Patient counts rounded to the nearest 7

- Population excludes those who are currently shielding.

- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, LD, or Dementia.

Cumulative vaccination figures among 16-49, not in other eligible groups shown population

Please refer to footnotes below table for information.

Category	Group	Vaccinated at 20 May (n)	Previous week's vaccination figure (n)	Vaccinated over last 7d (n)	Increase in coverage over last 7d (%)
overall	overall	3899955	3551883.0	348072.0	9.8
Sex	F	2154670	1991920.0	162750.0	8.2
	M	1745163	1559852.0	185311.0	11.9
Age band	16-29	676774	635278.0	41496.0	6.5
	30-39	1096179	903175.0	193004.0	21.4
	40-49	2126880	2013312.0	113568.0	5.6
Ethnicity (broad categories)	Black	75782	69762.0	6020.0	8.6
	Mixed	51023	46459.0	4564.0	9.8
	Other	86863	76685.0	10178.0	13.3
	South Asian	314223	283199.0	31024.0	11.0
	Unknown	378140	338156.0	39984.0	11.8
	White	2993809	2737511.0	256298.0	9.4
ethnicity 16 groups	African	50603	46466.0	4137.0	8.9
	Bangladeshi or British Bangladeshi	23541	21287.0	2254.0	10.6
	Caribbean	9947	9226.0	721.0	7.8
	Chinese	20881	17920.0	2961.0	16.5
	Other	65961	58758.0	7203.0	12.3
	Other Asian	71512	64897.0	6615.0	10.2
	British or Mixed British	2675547	2456125.0	219422.0	8.9
	Indian or British Indian	140035	126210.0	13825.0	11.0
	Irish	17577	16114.0	1463.0	9.1
	Other Black	15225	14063.0	1162.0	8.3
	Other White	300727	265279.0	35448.0	13.4
	Other mixed	19327	17416.0	1911.0	11.0
	Pakistani or British Pakistani	79121	70791.0	8330.0	11.8
	Unknown	378140	338177.0	39963.0	11.8
	White + Asian	12201	11109.0	1092.0	9.8
	White + Black African	9849	9016.0	833.0	9.2
	White + Black Caribbean	9639	8918.0	721.0	8.1
Index of Multiple Deprivation (quintiles)	1 Most deprived	696612	636433.0	60179.0	9.5
	2	744149	677376.0	66773.0	9.9
	3	802375	731570.0	70805.0	9.7
	4	786492	714973.0	71519.0	10.0
	5 Least deprived	750855	684110.0	66745.0	9.8
	Unknown	119350	107310.0	12040.0	11.2
BMI	30+	757260	715078.0	42182.0	5.9
	under 30	3142573	2836694.0	305879.0	10.8
Chronic cardiac disease	no	3838128	3490858.0	347270.0	9.9
	yes	61705	60914.0	791.0	1.3
Current COPD	no	3883537	3535952.0	347585.0	9.8
	yes	16296	15820.0	476.0	3.0

Category	Group	Vaccinated at 20 May (n)	Previous week's vaccination figure (n)	Vaccinated over last 7d (n)	Increase in coverage over last 7d (%)
DMARDs	**no**	3858764	3511872.0	346892.0	9.9
	yes	41069	39900.0	1169.0	2.9
SSRI (last 12 months)	**no**	3374042	3061065.0	312977.0	10.2
	yes	525791	490700.0	35091.0	7.2

Footnotes:

- Patient counts rounded to the nearest 7

- SSRIs group excludes individuals with Psychosis/ schizophrenia/bipolar, LD, or Dementia.

Appendix

Ethnicity coverage for each eligible group

- Ethnicity information is primarily retrieved from GP records.
- Where missing in GP records, as of March 8 2021, it is then retrieved from hospital records if present.
  - For patients with multiple different ethnicities recorded, we use the most common non-missing ethnicity recorded in inpatients, outpatients or A&E over the last ~5 years (or latest if tied).
- Patient counts are rounded to the nearest 7

group	total population (n)	ethnicity coverage (%)
80+	1115520	94.4
70-79	2068836	93.1
care home	84847	97.4
shielding (aged 16-69)	830613	96.1
65-69	1073702	90.7
LD (aged 16-64)	81984	92.0
60-64	1279257	89.1
55-59	1512735	88.8
50-54	1563779	88.0