
Subject: Vaccination coverage by priority groups
Date: 30 March 2023

This report provides the details on COVID-19 vaccinations in Jersey between December 2020 and March 2023, and presents coverage achieved for the first, second, third and fourth vaccine doses that were offered to eligible groups of Islanders, as well as coverage for the Autumn Booster 2022 programme. Reporting on the roll-out of the Spring 2023 booster programme and any other future doses of COVID-19 vaccine that are offered will be done separately. Please check the [Public Health Reports](#) page for updates

Background

The roll-out of the coronavirus vaccine in Jersey began in December 2020 and has aligned to the vaccination programme roll-out in the UK following the advice of the Joint Committee on Vaccination and Immunisation (JCVI). The local vaccine programme has followed the JCVI advised priority groups or tiers to prioritise when individuals in our population are able to access a vaccination. These guidelines and priority group definitions have changed over time, and the coverage estimates presented in this report have been updated accordingly. This document sets out the context and challenges of reporting by priority group in Jersey.

Total number of vaccines delivered, and coverage by age groups are detailed in Table 1 and Table 2. The vaccine types administered are detailed in Table 3. Table 4 and Table 5 provides estimates of coverage of priority groups, supported by contextual information about the data quality (Table 6).

Note that as of 24th April 2022, population denominator figures from the 2021 census¹ have been used to calculate vaccine coverage, and reporting has been brought in line with NHS England by removing deceased individuals from coverage estimates. Details can be found here²

Key findings

As at 26 March 2023:

- 27,705 Autumn 2022 boosters have been administered, with 60% of those aged over 50 years having received an autumn booster dose.
- 8,804 Spring 2022 booster have been administered, with 84% of those aged over 75 years having received a fourth dose
- 64,924 third doses have been administered[^], with 92% of those aged over 50 having received a third dose
- 93% of the population aged 18 years and over have received a first dose, 91% have been double vaccinated, and 75% have had a booster dose (third dose)
- 66% of 16-17 year olds have received a first dose, 51% of 12-15 year olds have received a first dose, and 7% of 5-11 year olds have received a first dose

¹ <https://www.gov.je/Government/Pages/StatesReports.aspx?ReportID=5545>

² Briefing note on changes to coverage estimates

https://www.gov.je/Health/Coronavirus/pages/coronaviruscases.aspx#tab_vaccinationReporting

Context

A total of 267,761 doses had been administered by 26 March 2023 (Table 1).

Table 1. Total number of vaccinations administered

Total number of doses	267,761
Total number of first dose vaccinations	84,389
Total number of second dose vaccinations	81,939
Total number of third dose vaccinations	64,924
Total number of fourth dose vaccinations	8,804
Total number of Autumn 2022 booster dose	27,705

Please note that these totals include all doses given regardless of whether individual is now deceased, and includes doses given to Jersey-based individuals who may have received one or more doses elsewhere.

The vaccine delivery programme has been inviting Islanders based on the JCVI priority groups. There are slight differences in these priority groups in Jersey compared to the JCVI groups (see appendix) and changes to the definitions have occurred since the start of the vaccine programme which need to be considered when considering the Jersey estimates of coverage for each group.

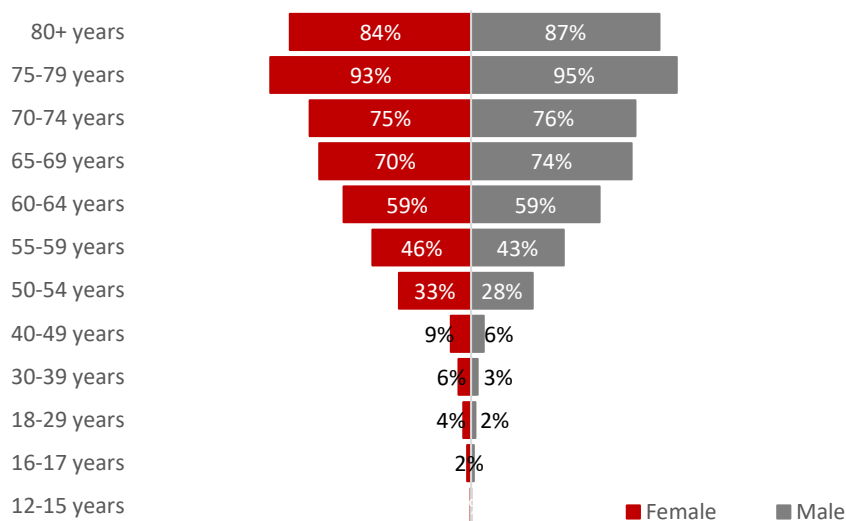
Table 2. First, Second, Third, Fourth and Autumn 2022 booster dose vaccinations administered by age groups*.

Age group (years)	Cohort Size*	First Dose		Second Dose		Third Dose		Fourth Dose		Autumn 2022 Booster Dose	
		Number	%	Number	%	Number	%	Number	%	Number	%
80+	5,319	5,465	~100%	5,444	~100%	5,256	99%	4,523	85%	4,535	85%
75-79	3,333	3,876	~100%	3,855	~100%	3,727	~100%	2,702	81%	3,131	94%
70-74	4,790	4,591	96%	4,575	96%	4,377	91%	227	5%	3,609	75%
65-69	5,294	5,582	~100%	5,557	~100%	5,225	99%	167	3%	3,826	72%
60-64	6,707	6,948	~100%	6,898	~100%	6,326	94%	189	3%	3,974	59%
55-59	8,192	8,118	99%	8,059	98%	7,148	87%	161	2%	3,628	44%
50-54	8,445	7,647	91%	7,574	90%	6,485	77%	141	2%	2,614	31%
40-49	15,124	13,550	90%	13,414	89%	10,538	70%	152	1%	1,160	8%
30-39	13,934	11,732	84%	11,464	82%	7,958	57%	80	1%	613	4%
18-29	13,535	11,208	83%	10,629	79%	6,710	50%	37	<1%	380	3%
16-17	2,118	1,408	66%	1,134	53%	183	9%	-	<1%	33	2%
12-15	4,240	2,174	51%	1,591	38%	30	1%	-	<1%	6	<1%
5-11	7,574	529	7%	294	4%	7	<1%	-	<1%	-	-
0-4	4,662	-	-	-	<1%	-	-	-	-	-	-
Total	103,267	82,828	80%	80,489	78%	63,970	62%	8,382	8%	22,974	22%

* based on 2021 population figures. Please note that deceased individuals are removed from coverage estimates to ensure coverage estimates are as accurate as possible

Figure 1 provides further information about the uptake of vaccination by gender in each age group.

Figure 1. Uptake of Autumn Booster 2022 by gender and age



The number of COVID-19 vaccine doses administered in Jersey, by vaccine brand, is displayed in Table 3.

Table 3. First, Second, Third, Fourth and Autumn 2022 booster dose vaccinations administered by Manufacturer.

Manufacturer	First dose	Second dose	Third dose	Fourth dose	Autumn 2022 booster	Total
Oxford - Astra Zeneca	34,200	34,055	304	72	0	68,641
Pfizer BioNTech	46,854	44,716	61,562	1,743	2	154,981
Moderna	3,211	3,088	3,018	6,889	3	16,269
Spikevax Bivalent	1	1	9	32	16,430	16,499
Comirnaty Bivalent	0	0	0	0	11,266	11,266

** Does not include a small number of doses where the manufacturer records require additional review, or manufacturer for doses received elsewhere where manufacturer was not one of the five manufacturers used in the Jersey programme*

Vaccine delivery

The local vaccination programme to date has been delivered in three ways:

- Through appointments or walk ins at the Vaccination centre at Fort Regent
- Through mobile unit which has visited care homes or individuals who are not able to access the vaccination centre
- Through outreach clinics. These pop-ups are run at specific times in popular and easily accessible locations around the island

Details about the vaccination delivery, including the brand and batch number are entered into the general practice computer system (EMIS) alongside details of the individual and the reason they are eligible. The mobile unit and outreach clinics may use paper forms to record vaccinations that are administered outside of the vaccination centre. Administrators at the centre then enter the information from the paper forms into EMIS; this can sometimes cause a delay in the data being entered in the system, especially if the centre is busy.

Data quality issues

The analysis of the data from EMIS has found a number of data quality issues, which are laid out in Table 4 alongside the actions being taken to address these issues.

Table 4. Issues that have been found within the data being entered into EMIS when an individual has their vaccine:

Issue	Actions being taken to address issue
Missing employment information	Cross-matching to staff lists (where available) to fill in missing information. When staff return for further doses, missing information will be collected
Missing social security number	Only an issue when matching to other data sources if names plus date of birth are not a direct match
Missing care home information	Cross-matching to lists provided by care homes (if available)
Wrong priority group/tier is allocated	If possible, this is corrected based on dates and other available information. When people return for further doses, missing information will be collected
Imperfect matching from deaths register	Where possible, registered deaths are recorded against vaccine records to ensure deceased individuals are not included in coverage estimates for a given group, but due to data quality issues in either the EMIS vaccine data set or the deaths register a match is not guaranteed in every case.

In order to provide metrics on the proportions of each priority group that have received a vaccine, an understanding of the data quality issues surrounding the population data being used to generate estimates and the actions being taken to remediate these is required. Table 5 sets out these issues which mean that robust information on population coverage for all priority groups is not yet possible to provide.

Table 5. Issues with the underlying population data that is used for measures of coverage and data quality assurance

Issue	Actions being taken to address issue
Information about residents in care homes not provided by all homes	Requests have been made with care homes to provide further information
Information about all staff working in care homes or care agencies not provided by all employers	Requests have been made with care homes and care agencies to provide further information
Care home populations and staff groups are not stable due to movements in and out of these groups	Population denominators will be reviewed and updated when appropriate
Information about all staff working in health sector not provided	Requests to those employers have been made to provide further information
Staff working for more than one agency, or in more than one role	Where details about staff have been provided, duplicates have been removed. However, not all information is available to do this so duplicates in the denominator for staff groups remain. HR systems are not set up with front line roles clearly defined. Regular communication with employers is ongoing to identify eligible staff
Reciprocal health agreements mean all those on-Island who fall into eligible populations can access a vaccine, even if they don't appear in our population data	As individuals who meet the eligibility criteria are able to receive a vaccine, this may impact on results. This is assumed to be a small number for each priority group.
Data from different sources give contradictory information about staff due to accuracy of data	Due to redeployments and changes in employment, staff may have moved but administrative systems have not been updated to reflect this. More recent data is being requested from employers to try and improve accuracy of population data for staff
Information about moderate risk Islanders not held in one information system. Those people who are in receipt of home carers benefit contacted directly by Customer and Local Services (CLS) and information about these individuals not passed to the vaccine team so duplicates may be present	Around 150 Islanders are in receipt of this benefit so the impact of double counting within this group is likely to be small but significant.
Information on immunosuppressed individuals eligible for a Third Primary dose (in distinction to a general third booster dose) is not held in one information system centrally	Teams are working to identify individuals in this cohort, and provide targeted communications. Individuals identifying as being eligible for "Third Primary" are coded as such when arriving for their third dose, to allow the number of third primary doses administered to be tracked.

Weekly vaccination coverage estimates by priority groups

Table 6 shows the estimated coverage of each different priority group with an assessment of the data quality. Each group contains all individuals who are eligible under that population group, therefore the cumulative number of doses is higher than the total number of doses administered, as individuals may be eligible under more than one priority group or tier.

Data Quality in the table has been colour coded using the following criteria:

Red when the estimate is based on data that is deemed to be of poor or questionable data quality

Amber for data of moderate quality, with only a small amount of the data being of questionable quality

Green when the data quality of the estimate is good

Table 6. Weekly estimate of coverage for priority group, with data quality assessment, as at 19 February 2023³

Priority group/tier	Cohort Size	First dose		Second dose		Third dose		Fourth dose		Autumn 2022 booster dose		Data Quality Assessment
		Doses	%	Doses	%	Doses	%	Doses	%	Doses	%	
PG1. Care home residents	1,047 ^o	1,118 [†]	~100%	1,122 [†]	~100%	1,057 [†]	~100%	864 [†]	83%	924	88%	Red
PG1. Carers working in care homes	1,400 ^o	1,394 [†]	~100%	1,391 [†]	99%	1,171 [†]	84%	26 [†]	2%	423	30%	Amber
PG2. Health & social workers (frontline & other)	4,879 ^{o,n}	5,103	~100%	5,042	~100%	4,293	88%	113	2%	1,732	35%	Amber
PG2. Aged 80 years or over	5,319*	5,465	~100%	5,444	~100%	5,256	99%	4,523	85%	4,535	85%	Green
PG3. Aged 75 to 79 years	3,333*	3,876	~100%	3,855	~100%	3,727	~100%	2,702	81%	3,131	94%	Green
PG4. Aged 70 to 74 years	4,790*	4,591	96%	4,575	96%	4,377	91%	227	5%	3,609	75%	Green
PG4 & PG6: Clinically at risk (moderate and high)	11,330 [#]	10,925	96%	10,820	95%	9,624	85%	648	6%	4,557	40%	Amber
PG5. Aged 65 to 69 years	5,294*	5,582	~100%	5,557	~100%	5,225	99%	167	3%	3,826	72%	Green
PG7. Aged 60 to 64 years	6,707*	6,948	~100%	6,898	~100%	6,326	94%	189	3%	3,974	59%	Green
PG8. Aged 55 to 59 years	8,192*	8,118	99%	8,059	98%	7,148	87%	161	2%	3,628	44%	Green
PG9. Aged 50 to 54 years	8,445*	7,647	91%	7,574	90%	6,485	77%	141	2%	2,614	31%	Green
Phase 2. Aged 40 to 49	15,124*	13,550	90%	13,414	89%	10,538	70%	152	1%	1,160	8%	Green
Phase 2. Aged 30 to 39	13,934*	11,732	84%	11,464	82%	7,958	57%	80	1%	613	4%	Green
Phase 2. Aged 18 to 29	13,535*	11,208	83%	10,629	79%	6,710	50%	37	<1%	380	3%	Green
Phase 2. Aged 16-17	2,118*	1,408	66%	1,134	54%	183	9%	-	<1%	33	1%	Green
Phase 2. Aged 12-15	4,240*	2,174	51%	1,591	38%	30	1%	-	<1%	6	<1%	Green
Phase 2. Aged 5-11	7,574*	529	7%	294	4%	7	<1%	-	<1%	-	-	Green

[†] Missing or incorrect information entered for a small number of vaccine recipients. Cross-matching against other sources to fill in gaps where possible.

^o Unstable population (movements in and out of homes or staff movements)

*Based on 2021 Population Census Figures

ⁿ Inconsistent population data as reliant on numerous data sources. Extra data sources have been requested

*Number based on GP system (EMIS) report

[#] Information related to carers held separately to the EMIS data so potential for double counting

³ Not included in Table 6 is the breakdown for PG1: Domestic and Home care staff. The population size for this group is estimated to be 1,250, with 471 confirmed first doses and 459 second doses. However, this is likely to be **significantly underestimated** due to a number (around 200) of records with 'Employed in other workplace' not currently assigned to a priority group in the dataset. Work is ongoing to improve the data quality for this group. Data for these individuals will appear in the appropriate age group in the table.

Appendix

Table A1 below sets out the differences between the Jersey and JCVI priority groups, alongside the time periods when Islanders were able to access vaccines for each priority group.

A note on third doses - From 20th September 2021, it was announced that all those in priority groups 1 -9 would be eligible for a booster dose (third dose vaccination) once at least six months had elapsed since the second dose was administered. From 10th December 2021 all over 18 year olds became eligible for a booster dose once at least three months had elapsed since second dose was administered.

A note on fourth doses - From 11th March 2022, it was announced that all those aged 75 years or older, those who are immunocompromised, or those older adults living in residential care would be eligible for a “spring booster” (fourth dose vaccination) once at least three months had elapsed since the last dose was administered.

A note on Autumn 2022 booster - From 6th September 2022, it was announced that all those resident in care homes and staff, health and social care workers, people aged 50 years or older, those who are aged between 5 and 49 years considered in clinical risk groups, who are in contact of people with immunosuppression and carers aged between 16 and 49 would be eligible for an “Autumn 2022 booster” once at least three months had elapsed since the last dose was administered.

Table A1. Jersey and JCVI priority groups

Jersey Priority Group	JCVI Priority group	Comments	Vaccination Start Date
PG1. Care home residents	Residents in a care home for older adults	Jersey priority group 1 includes all people in care homes, not just older adults	13 December 2020
PG1. Carers working in care home	Staff working in care homes for older adults	Jersey priority group 1 considers staff in all care homes, not just those for older adults	13 December 2020
PG1. Domestic and home care staff	Not explicitly in JCVI groups	Home care staff are also considered in this priority group in Jersey, but not by JCVI	19 December 2020
PG2. Health & social workers (frontline and other)	Health and social care workers	As of December 2022, the “frontline” and “other” health and social care worker groups are reported on as a single category, in line with JCVI	27 December 2020
PG2. Aged 80 years and over	All those 80 years of age and over	Identical	13 January 2021
PG3. Aged 75-79 years	All those 75 years of age and over	Identical, as Jersey programme includes preceding Priority Groups	30 January 2021
PG4. Aged 70-74 years	All those 70 years of age and over	Identical, as Jersey programme includes preceding Priority Groups	2 February 2021
PG4 & PG6: Clinically at risk (moderate and high)	Clinically extremely vulnerable individuals and all individuals aged between 16 years to 64 years with underlying health conditions which put them at higher risk of serious disease and mortality	Identical criteria. As of December 2022, the “high” and “moderate” risk groups are reported on as a single category, in line with JCVI	2 February 2021
PG5. Aged 65-69 years	All those 65 years of age and over	Identical, as Jersey programme includes preceding Priority Groups.	10 February 2021
PG7. Aged 60-64 years	All those 60 years of age and over	Identical, as Jersey programme includes preceding Priority Groups	25 February 2021
PG8. Aged 55-59 years	All those 55 years of age and over	Identical, as Jersey programme includes preceding Priority Groups	3 March 2021
PG9. Aged 50-54 years	All those 50 years of age and over	Identical, as Jersey programme includes preceding Priority Groups	8 March 2021
Phase 2. Aged 40-49 years	All those aged 40 years of age and over	Identical criteria. Jersey programme has split this group into two sub-groups based on age to manage demand at the vaccination centre	11 April 2021

Phase 2. Aged 30-39 years	All those aged 30 years of age and over	Identical criteria. Jersey programme has split this group into two sub-groups based on age to manage demand at the vaccination centre	8 May 2021
Phase 2. Aged 18-29 years	All those aged 18 years of age and over	Identical criteria. Jersey programme has split this group into two sub-groups based on age to manage demand at the vaccination centre	4 June 2021
Phase 2. Aged 16-17 years	All those aged 16 years of age and over	Identical criteria.	5 August 2021 first dose, 24 th November 2021 second dose
Phase 2. Aged 12-15	12-15 year olds at increased risk, or share household with immune suppressed	Identical criteria	16 August 2021 first dose, 3 rd December 2021 second dose
	All 12-15 year olds	Identical criteria	27 th Sept 2021
Phase 2. Aged 5-11 at risk	5-11 year olds at increased risk, or share household with immune suppressed	Identical criteria	5 th February 2022
Phase 2. Aged 5-11	All 5-11 year olds	Identical criteria	5 th April 2022