

This medicine protocol is a specific written instruction for the administration of MMRVAXPRO vaccine included in Statutory Instruments S.I. No. 422 of 2023 to vaccine recipients including healthcare workers by healthcare professions included in Statutory Instruments S.I. No. 698 of 2020, S.I. No. 81 of 2021 and S.I. No. 245 of 2021 who are registered with their respective regulatory body. This medicine protocol is valid for the 2024/2025 Health Service Executive (HSE) MMR catch-up vaccination programme and in the event of an outbreak as advised by Public Health.

This medicine protocol enables healthcare professionals employed in the voluntary and statutory services of the HSE including mass vaccination clinics, congregated settings, temporary clinics and mobile units who have undertaken the required education and training programmes to administer MMRVAXPRO vaccine with reference to and guidance from the National Immunisation Advisory Committee (NIAC), National Immunisation Office (NIO), HSE and in accordance with the Summary of Product Characteristics (SmPC) for MMRVAXPRO vaccine as detailed by the European Medicines Agency (EMA) at www.ema.europa.eu.

- National Immunisation Advisory Committee Immunisation Guidelines for Ireland: Royal College of Physicians
 of Ireland National Immunisation Advisory Committee available at: https://www.rcpi.ie/Healthcare-Leadership/NIAC/Immunisation-Guidelines-for-Ireland
- National Immunisation Advisory Committee (2023) Anaphylaxis: Immediate Management in the Community available at: https://rcpi.access.preservica.com/uncategorized/IO_a36f9e4b-4c80-432d-8264-546089359925/
- National Immunisation Office (2023/2024) Supporting Information for Staff: Schools Immunisation Programme available at:
 - https://www.hse.ie/eng/health/immunisation/hcpinfo/schoolproghcp/supportingdoc.pdf
- National Immunisation Office (2024) Supporting Information for Staff MMR Catch-up Vaccination Programme available at:
 - https://www.hse.ie/eng/health/immunisation/hcpinfo/mmrcatchup24/mmrcuinfohps.html
- National Immunisation Office (2022) *Supporting Information for Vaccinations in General Practice* available at: https://www.hse.ie/eng/health/immunisation/infomaterials/gpsupportingdocpci.pdf

The Nursing and Midwifery Board of Ireland defines medicine protocols as "written directions that allow for the supply and administration of a named medicinal product by a nurse or midwife in identified clinical situations. A medicine protocol involves the authorisation of the nurse/midwife to supply and administer a medicine to groups of patients in a defined situation meeting specific criteria and who may not be individually identified before presentation for treatment. An individually named prescription is not required for the supply and administration of medication when a medication protocol is in effect" (An Bord Altranais, 2007).

The HSE has developed this medicine protocol to facilitate the administration of MMRVAXPRO vaccine-to-vaccine recipients according to NIAC recommendations endorsed by the Department of Health. The healthcare professionals using this medicine protocol must ensure that this medicine protocol is organisationally approved, relating to the professional cohort of vaccinators by whom the vaccine is to be administered, including requirements of registration, education, training and assessment of competency.



Master Medicine Protocol for the Administration of MMRVAXPRO (MMR - Measurement of MMR catch-up vaccination programme and in the event of an outbreak Master Medicine Protocol for the Administration of MMRVAXPRO (MMR - Measles, Mumps and Rubella) live

Document reference number	NIO March 2024
1.0 Critical Elements	
Name of Organisation where medicine protocol	Health Service Providers/mass vaccination clinics across the voluntary and statutory services of the HSE. This Medicine Protocol applies to:
applies	 Healthcare professionals included in S.I. No. 698 of 2020, S.I. No. 81 of 2021, S.I. No. 245 of 2021 and S.I.No. 422 of 2023 who are registered with their respective regulatory body employed in the voluntary and statutory services of the HSE including mass vaccination clinics, congregated settings, temporary clinics and mobile units
Date the medicine protocol comes into effect	March 2024
Date for review of medicine protocol	March 2025
Document prepared by	National Immunisation Office (NIO)
Names and Signatures of the employing authority who is authorising the implementation of the medicine protocol	Name: Dr. Eamonn O'Moore Director of National Health Protection, HSE
"On behalf of the authority employing professionals authorised to administer under this medicine protocol, I have read this	Signature:
medicine protocol and authorise its implementation"	Name: Dr Colm Henry , Chief Clinical Officer, HSE
	Signature:



2.0 Clinical Cuitania			
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Clinical condition for use of the medicine protocol	The clinical condition for which this medicine protocol has been developed is for the active immunisation against and prevention of measles, mumps and rubella infection.		
Circumstances in which the medicine protocol applies	The primary childhood immunisation schedule and for any subsequent presentation for first and second MMR vaccine e.g. measles outbreak, late entrants, catch-up campaigns or adult vaccination to vaccinate recipients and in the prevention and control of measles cases.		
Inclusion criteria for vaccine recipients receiving MMRVAXPRO (MMR) live vaccine under this medicine protocol	1. All children at 12 months of age should receive a MMRVAXPRO vaccine under primary childhood immunisation programme, with a second dose at 4-5 years of age (usually given in junior infants)		
	2. Children and adults presenting late for vaccine or without a written record or reliable verbal history of previously receiving MMR.		
	3. Measles outbreak – during an outbreak MMRVAXPRO vaccine may be given as young as 6 months of age. A dose given < 12 months of age does not replace the dose recommended at 12 months of age.		
	Notes: MMRVAXPRO vaccine can be given to those who have a history of measles, mumps or rubella infection		
	Children (≥age 5 years and older) and adults without prior MMR vaccination should be given MMRVAXPRO vaccine as soon as possible and a second dose at least 4 weeks later.		
	Children from 12 months to 5 years without evidence of MMR vaccination should receive one dose of MMRVAXPRO and continue with routine age appropriate MMR vaccination.		
	Precautions		
	 Acute severe febrile illness, defer until recovery. Injection with another live vaccine within the previous four weeks. Two live vaccines can be administered on the same day without causing interference e.g., MMR and Varicella. However, MMR vaccine should not be routinely administered on the same day as yellow fever vaccine as co-administration of these two vaccines can lead to suboptimal antibody responses to yellow fever, mumps and rubella antigens. If rapid protection is required, the vaccines should be given on the same day or at any interval and an additional dose of MMR should be given at least four weeks later. Family history of primary immunodeficiency (e.g., severe combined immunodeficiency syndrome (SCID)) defer vaccination until immune status is determined. Recent administration of blood, blood products, Human normal 		
	 immunoglobulin (HNIG) or specific immunoglobulin could prevent vaccine virus replication. MMR should be deferred for specific intervals depending on product received as outlined in NIAC Chapter 2 Table 2.6. Tuberculin skin testing should be deferred for at least four weeks after MMR as 		
	 the vaccine can reduce the tuberculin response and could give a false negative result. Patients who developed thrombocytopaenia within six weeks of their first dose 		
	of MMR should undergo serological testing to decide whether a second dose i		



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	necessary. The second dose is recommended if the patient is not fully immune to the three component viruses. Note: COVID-19 vaccines (except for COVID-19 vaccine given to children aged 6 months 4 years where a 14-day interval is recommended) and other vaccines may be administered at the same time or at any interval.
Exclusion criteria for vaccine recipients receiving MMRVAXPRO (MMR - Measles, Mumps and Rubella) live vaccine under this medicine protocol	 Anaphylaxis to a previous dose of MMR or to any of the vaccine constituents. Significant immunocompromise (see NIAC Chapter 3), e.g. primary immunodeficiency or acquired immunodeficiency (from disease (including HIV/AIDS), or immunosuppressive therapy (including biologics). Pregnancy (there is no requirement to carry out a pregnancy test prior to vaccination). Note: pregnancy should be avoided for 1 month after Priorix (MMR) vaccine Infants of mothers who took infliximab or other TNFα blocking agents throughout the second or third trimester.
Actions to be taken for those who are excluded from this medicine protocol	 All recipients meeting exclusion criteria must be referred to the medical practitioner for an individual medical assessment. Document action in clinical notes Where MMRVAXPRO vaccine is prescribed following medical assessment, the vaccinator may administer MMRVAXPRO vaccine within their scope of practice. Note: In determining their scope of practice, vaccinator must make judgements about their competence to carry out a role or activity.
Description of circumstances and referral arrangements when further advice or consultation is required	Discuss the vaccine recipient with the Medical Practitioner in the event of: • Previous adverse reaction • Other clinical concerns
Documentation required for the implementation of this medicine protocol	Consent form must be completed by the parent/legal guardian for all children who receive the MMRVAXPRO vaccine. Children aged 16 years and over consent on their own behalf, once understood. Relevant details including the batch number must be recorded on the consent form. The following documents will be required at each vaccination session: Vaccination session form Blank vaccine consent forms Vaccine information leaflets Patient held record cards/ vaccine passport HPRA Adverse Reaction Reporting forms HSE Incident/Near Miss Report Forms Post vaccination advice It is the responsibility of each vaccinator to be familiar with the appropriate documentation to support the safe administration of MMRVAXPRO vaccine which includes the following: Master Medicine Protocol for the Administration of MMRVAXPRO (MMR - Measles, Mumps and Rubella) live vaccine for MMR catch-up programme programme and in the event of an outbreak



	NIAC (2023) Anaphylaxis: Immediate Management in the Community available at: https://rcpi.access.preservica.com/uncategorized/IO a36f9e4b-4c80-432d-8264-546089359925/			
3.0 Name of medicine	MMRVAXPRO (MMR - Measles, Mumps and Rubella) live vaccine			
	Dose: 0.5ml	,		
	Route: Intramuscular injection			
	Presentation: Powder and solvent for suspension for injection. Before reconstitution,			
	the powder is a light yellow compact crystalline cake and the solvent is a clear colourless liquid.			
	Patients Age	Site	Needle length & Size	
	Birth to <12 months	Vastus lateralis muscle	25 mm (Use a 16 mm needle in infants under 2.5 - 3 kg)	
			23-25 gauge	
	12 to <36 months	Vastus lateralis or deltoid	25 mm	
		muscle (depending on muscle mass)	23-25 gauge	
	3 years and older	Deltoid muscle	25 mm	
			23-25 gauge	
Link to Medicine	Link to Summary of Product Characteristics:			
Details of product	https://www.ema.europa.eu/en/documents/product-information/m-m-rvaxpro-			
information and other data	product-information_en.pdf			
including instructions for	Link to Patient Information Leaflet:			
including instructions for	Link to Patient Informatio	n Leaflet:		
supply and administration		on Leaflet: .eu/en/documents/product-info	ormation/m-m-rvaxpro-epar-	
I -		.eu/en/documents/product-info	ormation/m-m-rvaxpro-epar-	
supply and administration is available from the EMA at www.ema.europa.eu	https://www.ema.europa product-information_en.p	.eu/en/documents/product-info df		
supply and administration is available from the EMA	https://www.ema.europa product-information_en.p	eu/en/documents/product-info df or that directly involve the vac	cine recipient, i.e. wrong	
supply and administration is available from the EMA at www.ema.europa.eu Procedure for the reporting	https://www.ema.europa product-information_en.p	.eu/en/documents/product-info df	ccine recipient, i.e. wrong ner medicine error, the	
supply and administration is available from the EMA at www.ema.europa.eu Procedure for the reporting and documentation of	https://www.ema.europa product-information_en.p	rors that directly involve the vacute being administered or another.	ccine recipient, i.e. wrong ner medicine error, the	
supply and administration is available from the EMA at www.ema.europa.eu Procedure for the reporting and documentation of errors and near misses	https://www.ema.europa product-information_en.p	rors that directly involve the vacute being administered or anothith the vaccine recipient and clo	ccine recipient, i.e. wrong ner medicine error, the sely monitor them for any	
supply and administration is available from the EMA at www.ema.europa.eu Procedure for the reporting and documentation of errors and near misses	In the case of medicine error medicine/patient/dose/ro vaccinator must remain with adverse reactions. Vital signs should be recor vaccinator and/ or medica The incident must be repoor The incident and all action documentation/notes and completed:	rors that directly involve the vacute being administered or anothith the vaccine recipient and clo	ccine recipient, i.e. wrong ner medicine error, the sely monitor them for any nould be reviewed by the er as soon as possible. ded in the recipient's Management Report Form	
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	Any suspected adverse reactions associated with medicine errors should be reported to the HPRA as outlined below.		
	Any errors and near misses not involving medicine e.g. needle stick injuries, the incident and all actions taken must be promptly recorded on the relevant National Incident Management Report form and forwarded to the relevant line manager as per local policy. Refer to 'EMI Tool Kit' (https://www.hpsc.ie/a-z/EMIToolkit/).		
Procedure for reporting Adverse Drug Reactions to the HPRA	The relevant vaccinator should report to the HPRA any suspected adverse reactions, in accordance with criteria outlined by the HPRA. This reporting may be carried out online at https://www.hpra.ie or through use of the yellow card system which is available in the downloadable format from the HPRA website, or on request from the HPRA.		
Resources and equipment required for administration of MMRVAXPRO (MMR - Measles, Mumps and Rubella) live vaccine	 MMRVAXPRO (MMR) vaccine Fridge/cool box with minimum/maximum temperature recording device to monitor the Cold chain temperature (between +2°C and +8°C) Vaccination cool packs Disposable kidney dishes/coloured trays Gauze swabs/Plasters Sharps bins, and bags for disposal of healthcare risk and non-risk waste material Alcohol hand sanitizer Face masks (as per local guideline) Access to telephone Resuscitation equipment and drugs in accordance with the NIAC (2023) Anaphylaxis: Immediate Management in the Community available at: https://rcpi.access.preservica.com/uncategorized/IO_a36f9e4b-4c80-432d-8264-546089359925/ Access to medical support Safe storage areas for medicines and equipment Current medicine protocol for MMRVAXPRO (MMR) vaccine. 		
Audit process to identify appropriate use of the medicine protocol or unexpected outcomes	All documentation will be held for review and audit purposes as per local policy.		



4.0 Information for vaccine recipient/parent/legal guardian

Advice to be given to the vaccine recipient/parent/ legal guardian before treatment

Reiterate the information provided in the HSE patient information leaflet for the vaccine in the appropriate language and translator support if required.

For children, Patient Information Leaflet/Fact Sheet **must** be supplied with the consent form to each parent/legal guardian prior to administration of the vaccine as above.

Advice to be given to the vaccine recipient/parent/ legal guardian after treatment

After Treatment

The vaccine recipient must be advised to remain seated in the post vaccination observation area for 15 minutes to allow monitoring of any immediate reaction including possible anaphylactic reaction and must be advised to report any side effects to the staff who is present.

Note: Adverse reactions are considerably less common (less than 1%) after the 2nd dose of MMRVAXPRO (MMR) vaccine.

Details of any necessary follow-up, action and referral arrangements

In the event of an adverse reaction the vaccinator must ensure that all procedures are adhered to as outlined in Section 3.

5.0 Staff authorised to use this medicine protocol

Professional qualifications, training and competence required prior to using this medicine protocol

- 1) Be a Registered healthcare professional, on the active register maintained by the relevant professional regulatory body in Ireland
- 2) An approved *Basic Life Support for Health Care Providers Course* within the last two years (For e.g. Irish Heart Foundation (IHF), American Heart Association (AHA))
- 3) Initial National Anaphylaxis Education Programme for Health Care Professionals accessible on www.HSELanD.ie followed by a two hour classroom based skills workshop. Recertification is required every two years by completing the on-line National Anaphylaxis Education Programme for Health Care Professionals accessible on www.HSELanD.ie or the relevant anaphylaxis management programme approved by their professional organisation.

Note: In addition to the above, the vaccinator must complete the education, training, and competence requirements as recommended by their professional organisation and regulatory authority.

Registered Nurses and Registered Midwives must read the section B document specific to this medicine protocol and complete the Self-Assessment of Competency Form.



References

An Bord Altranais (2007) Guidance to Nurses and Midwives on Medication Management. Dublin: An Bord Altranais

European Medicines Agency available at www.ema.europa.eu

Irish Statutory Instruments available at https://www.irishstatutebook.ie/eli/statutory.html

MMRVAXPRO Summary of Product Characteristics and Patient Information Leaflet available at www.ema.europa.eu

National Clinical Guideline No. 30 (2023) – Infection Prevention and Control (IPC) https://www.gov.ie/en/publication/a057e-infection-prevention-and-control-ipc/.

National Immunisation Advisory Committee (2023) *Anaphylaxis: Immediate Management in the Community* available at: https://rcpi.access.preservica.com/uncategorized/l0 a36f9e4b-4c80-432d-8264-546089359925/

National Immunisation Advisory Committee *Immunisation Guidelines for Ireland*: Royal College of Physicians of Ireland National Immunisation Advisory Committee available at: https://www.rcpi.ie/Healthcare-Leadership/NIAC/Immunisation-Guidelines-for-Ireland

National Immunisation Office (2023/2024) *Supporting Information for Staff: Schools Immunisation Programme* available at: https://www.hse.ie/eng/health/immunisation/hcpinfo/schoolproghcp/supportingdoc.pdf

National Immunisation Office (2024) Supporting Information for Staff – MMR Catch-up Vaccination Programme available at: https://www.hse.ie/eng/health/immunisation/hcpinfo/mmrcatchup24/mmrcuinfohps.html

National Immunisation Office (2022) *Supporting Information for Vaccinations in General Practice* available at: https://www.hse.ie/eng/health/immunisation/infomaterials/gpsupportingdocpci.pdf