

## Pre-exposure Indications for Measles Vaccine – April 5, 2024

This document was created using AHS' *Measles, Mumps, Rubella and Varicella Vaccine Biological Page* (March 28, 2024) and *Measles Mumps Rubella Vaccine Biological Page* (March 28, 2024). This document is not valid if either biological page is updated.

**Review MMR-Var and MMR biological pages for complete information PRIOR to using this document.**

### Contraindications to measles-containing vaccine:

- Known severe hypersensitivity to any component of the vaccine
- Anaphylactic or other allergic reaction to previous dose of vaccine containing similar components
- **Pregnancy**
- Impaired immune function due to HIV, AIDS, HSCT, SOT, cellular immune deficiencies
- Administration of another live vaccine within the past 1-3 months
- Persons receiving immunoablative or immunosuppressive therapy (including high dose corticosteroids)
- Immunocompromised due to blood disorders
- Family history of congenital or hereditary immunodeficiency, unless the immune competence of the potential vaccine recipient is demonstrated
- Received immune globulins or blood product within the past 11 months (see biological page)
- Active untreated tuberculosis

### Notes:

- Immunization of HIV-infected children and adults should be completed under the direction of the infectious disease specialist attending the individual.
- **Women planning to get pregnant should wait 1 month after getting MMR before trying to get pregnant.**

	Doses/Route	Notes
<b>Infants 6 months of age up to and including 11 months of age:</b> <ul style="list-style-type: none"> <li>• <b>traveling to or through areas where measles is circulating in Canada</b> (Montreal and Toronto)</li> <li>• <b>traveling to any country outside of Canada</b></li> <li>• <b>candidates for SOT</b></li> </ul>	1 dose SC	<ul style="list-style-type: none"> <li>• <b>MMR</b> vaccine is used</li> <li>• Note: To ensure long term protection, two additional doses of measles-containing vaccine should be administered beginning at 12 months of age with the appropriate interval between doses.</li> </ul>
<b>Healthy children</b> <ul style="list-style-type: none"> <li>• <b>12 months of age up to including 12 years of age when <i>varicella vaccine is also indicated</i></b></li> </ul>	2 doses SC	<ul style="list-style-type: none"> <li>• The combined <b>MMR-Var</b> vaccine is routinely used for this age group.</li> <li>• The schedule for measles containing vaccine is:                             <ul style="list-style-type: none"> <li>○ Dose 1 @ 12 months of age</li> <li>○ Dose 2 @ 18 months of age (previously given at 4 – 6 years of age with preschool boosters)</li> </ul> </li> <li>• If off-schedule, there should be a minimum 3 months between each MMR-Var dose.</li> <li>• Children travelling to or through areas where measles is circulating in Canada (Montreal and Toronto) and all countries outside of Canada should have two doses of measles containing vaccine with the appropriate minimum interval between doses (see biological page for spacing for MMR and MMR-Var vaccines).</li> <li>• The second dose of measles-containing vaccine given as MMR vaccine alone or MMR-Var can be given prior to 18 months of age using the recommended interval between doses.</li> </ul>
<b>Healthy children</b> <ul style="list-style-type: none"> <li>• <b>12 months of age up to and including 12 years of age when <i>varicella vaccine is not indicated</i></b></li> <li>• <b>children 13 years of age up to including 17 years of age</b></li> </ul>	2 doses SC	<ul style="list-style-type: none"> <li>• The <b>MMR</b> vaccine is used for these children (Review varicella biological page to confirm varicella vaccine is not indicated)                             <ul style="list-style-type: none"> <li>▪ Dose 1 @ 12 months of age.</li> <li>▪ Dose 2 @ 18 months of age (Previously given at 4 – 6 years of age, with preschool boosters)</li> </ul> </li> <li>• Children travelling to or through areas where measles is circulating in Canada (Montreal and Toronto) and all countries outside of Canada should have two doses of measles containing vaccine with the appropriate minimum interval between doses (see biological page for spacing for MMR and MMR-Var vaccines).</li> <li>• The second dose of measles-containing vaccine given can be given prior to 18 months of age using the recommended interval between doses.</li> <li>• <b>MMR-Var vaccine cannot</b> be used for individuals 13 years of age and older, MMR vaccine must be used.</li> </ul>

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- **Pregnancy**
- Impaired immune function due to HIV, AIDS, HSCT, SOT, cellular immune deficiencies
- Administration of another live vaccine within the past 1-3 months
- Persons receiving immunoablative or immunosuppressive therapy (including high dose corticosteroids)
- Immunocompromised due to blood disorders
- Family history of congenital or hereditary immunodeficiency, unless the immune competence of the potential vaccine recipient is demonstrated
- Received immune globulins or blood product within the past 11 months (see biological page)

**Notes:**

- Immunization of HIV-infected children and adults should be completed under the direction of the infectious disease specialist attending the individual.
- **Women planning to get pregnant should wait 1 month after getting this vaccine before trying to get pregnant.**

Age Group	Measles Protection
<b>Individuals 18 years of age and older</b>	When required, the <b>MMR</b> vaccine is used for these individuals <ul style="list-style-type: none"> <li>• Note: if serology shows the individual is not protected from varicella, the monovalent varicella vaccine is to be used for protection</li> </ul>
<b>Individuals born <u>after</u> 1970</b>	History of: <ul style="list-style-type: none"> <li>• 2 valid doses of measles-containing vaccine, OR</li> <li>• history of laboratory confirmed measles disease, OR</li> <li>• serological evidence of measles immunity (measles IgG positive).</li> </ul>
<b>Individuals born <u>before</u> 1970</b>	From a population perspective, <b>individuals born <u>before</u> 1970 are generally presumed to have acquired natural immunity to measles and do not require measles vaccine <u>unless listed below</u></b> . Serology is not indicated.  <b>Exceptions:</b> The following may be susceptible, therefore it is recommended to assess and immunize if needed: <ul style="list-style-type: none"> <li>• <b>Health care workers:</b> <ul style="list-style-type: none"> <li>○ documented history of 2 valid doses of measles-containing vaccine, OR</li> <li>○ history of laboratory confirmed measles disease, OR</li> <li>○ serological evidence of measles immunity (measles IgG positive).</li> </ul> </li> <li>• <b>Post-secondary students:</b> <ul style="list-style-type: none"> <li>○ documented history of 1 valid dose of measles-containing vaccine, OR</li> <li>○ history of laboratory confirmed measles disease, OR</li> <li>○ serological evidence of measles immunity (measles IgG positive).</li> </ul> </li> <li>• <b>Individuals travelling to or through areas where measles is circulating in Canada (Montreal and Toronto) and all countries outside of Canada:</b> <ul style="list-style-type: none"> <li>○ documented history of 1 valid dose of measles-containing vaccine, OR</li> <li>○ history of laboratory confirmed measles disease, OR</li> <li>○ serological evidence of measles immunity (measles IgG positive).</li> </ul> </li> </ul> <p>Note: individuals born in 1957 or later require 1 dose MMR for Rubella if they do not have lab confirmed rubella disease or immunity</p>