What is Rubella (German Measles)?
Rubella is very dangerous in pregnant women. If infection occurs in the early part of a pregnancy, it is very likely that the baby will die or be severely handicapped. The most common handicaps are blindness, deafness, mental retardation and heart defects. Rubella is usually a mild illness in children; half of the infections with rubella occur without a rash. The disease can be more severe in older children and adults, especially women.
Rubella may cause fever, sore throat, swollen glands in the neck and a rash on the face and neck. Temporary aches and pains and swelling of the joints are common in adolescents and adults, especially females. Rubella can be followed by chronic arthritis. It can also cause temporary blood clotting problems and encephalitis (swelling of the brain).
Rubella spreads by contact with an infected person through coughing, sneezing or talking to them. It can also be spread through contact with the saliva of an infected person.

What is Varicella?
Varicella, or Chickenpox, is a very infectious disease caused by the varicella-zoster virus. It is passed from person to person through coughing, sneezing, and even talking. You can also get chicken pox if you touch a blister or the liquid from a blister then touch your mouth, nose or eyes.
Children with the infection will feel sick with fatigue, mild headache, and fever up to 39°C, chills and muscle or joint aches a day or two before the red rash begins. The raised itchy red blisters can be anywhere on the body and dry up and form scabs in 4–5 days. Chickenpox can also cause complications such as bacterial skin infections, pneumonia and encephalitis (swelling of the brain).
Who should get the vaccine?
In Ontario, children are eligible to receive the publicly funded MMRV vaccine from 4–11 years of age to protect against measles, mumps, rubella and chickenpox.

Most children will receive their first dose of MMR after their first birthday and varicella at 15 months for age.

MMRV vaccine:
The MMRV is a live vaccine that will be offered to children between 4-6 years of age as part of their routine immunization schedule. It is recommended that this vaccine be given before entering school, or as soon as the child turns 4 (if they are already in school).

Almost all children who receive two doses of vaccine against these four diseases are protected against all of them. Protection from measles, mumps and rubella after getting the vaccine is probably lifelong. However, sometimes children may acquire the infection after vaccination, but the disease will be milder. The length of chicken pox protection after the MMRV is not known, but children who receive the vaccine and get chicken pox, had more mild cases of the disease.

Who should NOT get the vaccine?
- Anyone who is ill with a fever or infection worse than a cold
- Anyone who has had a severe allergic reaction to any measles, mumps, rubella or varicella vaccine
- Anyone taking medication that lowers the body’s ability to fight infections
- Anyone who is allergic to an antibiotic called neomycin;
- Anyone who received a gamma globulin shot within the past 3–12 months, (depending on the dose and method of administration)

Side effects
MMRV vaccine may cause redness, swelling and tenderness in the area where the needle was given. Fever and/or a rash can occur 4–12 days after getting the vaccine. The rash can be a blotchy red rash (measles like) and/or spots that look like blisters (chickenpox).

There have been studies conducted in the United States that showed a possible increased risk of febrile seizures in children who received MMRV vaccine as a first dose when younger than two years of age. This vaccine is not approved for use in Canada. The MMRV vaccine approved for use in Canada has not shown to have a higher rate of febrile seizures than if MMR and varicella vaccines are given separately.

The risk of febrile seizures lessens with age. Children who are four to six years of age do not experience febrile seizures as often as children less than four years of age.

There is a minimum risk of a pregnant woman or anyone else catching measles, mumps, rubella and varicella from a child who has been vaccinated recently. No additional precautions are recommended for pregnant women who may come in contact with recently vaccinated children. Women should speak to their doctor about risk of infection to measles, mumps, rubella and varicella if they are trying to become pregnant or once they learn of their pregnancy.

When should I seek medical attention?
Severe reactions are rare. If you develop hives, swelling of the face or mouth, trouble breathing, serious drowsiness or other serious problems seek immediate medical attention.

Your record of protection
After any immunization, ensure your personal immunization record or “yellow card” is updated. Keep it in a safe place.

Questions?
Talk to your health care provider or contact Public Health at 519-575-4400.