












# compares Ontario Vaccine Schedules

<b>1983</b> <b>TOTAL PreSchool</b> <b>22 Doses of 7 Vaccines</b> In 6 Injections & 4 oral doses	AGE	<b>2017</b> <b>TOTAL PreSchool</b> <b>46 Doses of 13 Vaccines</b> In 19 Injections & 2 oral doses
∅	Prenatal 	Number of Vaccine Doses: 1 <b>Influenza Vaccine</b> Pregnant women may be offered many other vaccines, but this is the only vaccine in the routine schedule.
DPT: whooping cough vaccine 3 vaccines in 1 shot OPV: oral polio live virus vaccine	2 Months 	Number of Vaccine Doses: 7 <b>DTaP-IPV-Hib 5 vaccines in 1 shot</b> <b>Pneumococcal C-13</b> <b>Rotavirus (oral) live virus vaccine</b>
DPT: 3 vaccines in 1 shot OPV: oral polio live virus vaccine	4 Months 	Number of Vaccine Doses: 7 <b>DTaP-IPV-Hib 5 vaccines in 1 shot</b> <b>Pneumococcal C-13</b> <b>Rotavirus (oral) live virus vaccine</b>
DPT: 3 vaccines in 1 shot	6 Months 	Number of Vaccine Doses: 7 <b>DTaP-IPV-Hib 5 vaccines in 1 shot</b> <b>Influenza 2 doses 4 weeks apart</b>
∅	12 Months 	Number of Vaccine Doses: 5 <b>MMR 3 live virus vaccines in 1 shot</b> <b>Pneumococcal C-13</b> <b>Meningococcal C-C</b>
MMR: 3 live virus vaccines in 1 shot	15 Months 	Number of Vaccine Doses: 1 <b>Varicella chickenpox live virus vaccine</b>
DPT: 3 vaccines in 1 shot OPV: oral polio live virus vaccine	18 Months 	Number of Vaccine Doses: 6 <b>DTaP-IPV-Hib 5 vaccines in 1 shot</b> <b>Influenza (1st Annual dose)</b>
∅	3 Yr 	Number of Vaccine Doses: 1 <b>Influenza (Annual dose in Fall)</b>
DPT: 3 vaccines in 1 shot OPV: oral polio live virus vaccine	4-6 Yr 	Number of Vaccine Doses: 11 <b>Tdap-IPV 4 vaccines in 1 shot</b> <b>MMRV 4 live virus vaccines in 1 shot</b> <b>Influenza (3 Annual doses each Fall)</b>



By the time your child graduates from high school, they will have received an additional 11 annual Influenza vaccines, 2 doses of HPV, 2 doses of Hepatitis B, Tdap, & Meningococcal C-ACYW-135.

## TOTAL Grade School & High School in 2017

17 doses of 7 Vaccines in 7 Injections

**2017 GRAND TOTAL: Prenatal through Age 18**  
**63 doses of 16 Vaccines**

## LEGEND

### Vaccines used in the 1983 Ontario schedule

All 3 of these vaccines have since been withdrawn from the market due to safety concerns.

**DPT:** diphtheria, whole cell pertussis, tetanus vaccine  
3 vaccine combination

**OPV:** oral, live virus polio vaccine

**MMR:** measles, mumps (Urabe strain), rubella vaccine  
3 live virus vaccine combination

### Vaccines used in the 2017 Ontario schedule

**DTaP-IPV-Hib:** 'whooping cough' vaccine

5 vaccine combination with diphtheria, tetanus, acellular pertussis, polio and Hib (Haemophilus Influenzae B) vaccines  
(Note: Hib is a bacterial infection, not related to influenza)  
Pediaxel<sup>TM</sup> or Infanrix-IPV/Hib<sup>®</sup>

**Hepatitis B (HepB):** virus vaccine, Engerix<sup>®</sup>-B Pediatric or Recombivax HB<sup>®</sup>

**HPV:** Human papillomavirus vaccine, usually Gardasil 9<sup>TM</sup>

**Influenza:** annual Flu shot, quadrivalent vaccine recommended  
Fluzone<sup>®</sup> Quadrivalent or Flulaval<sup>®</sup> Tetra

**Men C-C:** Meningococcal serotype C vaccine,  
Menjugate<sup>®</sup>, Meninjetec<sup>TM</sup> or NeisVac-C<sup>®</sup>

**Men C-ACYW-135:** 4 Meningococcal serotypes, Menomune<sup>®</sup>

\***MMR:** measles, mumps, rubella, MMRII<sup>®</sup> or Priorix<sup>®</sup>  
3 live virus combination vaccine

\***MMRV:** measles, mumps, rubella, varicella (chickenpox)  
Priorix Tetra<sup>®</sup> or ProQuad<sup>TM</sup>  
4 live virus combination vaccine

**Pneu C-13:** pneumococcal vaccine, 13 serotypes, Prevnar 13<sup>®</sup>

\***Rotavirus:** live oral vaccine, Rotarix<sup>TM</sup>

**Tdap-IPV:** tetanus, diphtheria, pertussis vaccine, polio  
4 vaccine combination, booster vaccine  
Adacel-Polio<sup>®</sup> or Boostrix-Polio<sup>®</sup>

\***Varicella:** chickenpox live virus vaccine

\***Live virus vaccines** can shed for varying amounts of time (weeks to months) in the body fluids of vaccinated people and can be transmitted to others. "Little is known about the potential of live attenuated and genetically engineered vaccine viruses to mutate and recombine with other viruses and create new viruses that will cause disease or affect the integrity of the human genome, human microbiome and healthy functioning of the immune and neurological systems." [NVIC](http://www.nvic.org/cmstemplatess/nvic/pdf/live-virus-vaccines-and-vaccine-shedding.pdf) <http://www.nvic.org/cmstemplatess/nvic/pdf/live-virus-vaccines-and-vaccine-shedding.pdf>

The Immunization of School Pupils Act (ISPA) was passed in 1982. Vaccines are not mandatory under the Act. They are voluntary with exemptions available for medical, religious or conscience reasons. As Health Canada explained years ago:

**"Unlike some countries, immunization is not mandatory in Canada; it cannot be made mandatory because of the Canadian Constitution...legislation and regulations must not be interpreted to imply compulsory immunization."**



## What's In those Vaccines?

In the first year of life, during critical phases of brain and immune system development, your baby will receive 26 doses of complex biochemical vaccine ingredients. We identify some of these substances, such as adjuvants, preservatives and other 'clinically significant' ingredients in the following popular vaccine brands.

### Example Vaccines received in the first year

<b>3 DTaP-IPV-Hib</b> —Pediaxel <sup>®</sup>	<b>3 Pneu C-13</b> —Prevnar 13 <sup>®</sup>
<b>2 Rotavirus</b> —Rotarix <sup>TM</sup>	<b>2 Influenza</b> —Flulaval <sup>®</sup> Tetra
<b>1 MMR</b> —MMRII <sup>®</sup>	<b>1 MEN-C-C</b> —Menjugate <sup>®</sup>

**Pediaxel** Adjuvant: Aluminum 1500mcg X 3 doses = **4500mcg**

Preservative: 2-Phenoxyethanol (PE)

Potential Allergens: Neomycin, Polymyxin B  
Streptomycin

Tetanus toxoid carrier protein

Other: Bovine serum albumin Formaldehyde  
Polysorbate 80 Glutaraldehyde

### Prevnar-13

Adjuvant: Aluminum 1250mcg X 3 doses = **3750mcg**

Potential Allergens: Diphtheria toxoid carrier protein

Other: Polysorbate 80, Sodium chloride, Succinic acid

**Rotarix** Adjuvant: live vaccine, not necessary

Other: Disodium adipate, Sucrose  
DNA fragments from porcine circovirus 1  
contaminants from cell growth medium

**Flulaval Tetra** Adjuvant: none

Preservative: Thimerosal <25mcg mercury X 2doses = **<50mcg**

Potential Allergens: Egg protein, Thimerosal

Other: Disodium hydrogen phosphate heptahydrate  
Formaldehyde, Potassium chloride  
Potassium dihydrogen phosphate, Sucrose  
Sodium chloride, Sodium deoxycholate

**MMRII** Adjuvant: live vaccine, not necessary

Potential Allergens: Neomycin, Phenol red, Porcine gelatin  
Residual components of chick embryo cell cultures

Other: Fetal bovine serum, Contaminants from  
cell growth medium, Human diploid cells (fetal cells)  
Recombinant human albumin

Monosodium L-glutamate monohydrate  
Potassium phosphate dibasic & monobasic  
Sodium bicarbonate, Sorbitol, Sucrose  
Sodium phosphate dibasic & monobasic

### Menjugate

Adjuvant: Aluminum 1000mcg X 1 dose = **1000mcg**

Potential Allergens: Latex, Diphtheria toxoid carrier protein

Other: Disodium phosphate heptahydrate, Mannitol, Sodium chloride, Sodium dihydrogen phosphate monohydrate

In the first year of life, vaccinated babies will receive a total of 9250 micrograms (mcg) of aluminum and nearly 50 micrograms of mercury, both of which are known neurotoxins affecting brain development and function. Babies will also be exposed to various animal and human DNA, cell fragments and contaminants. The polysorbate 80 emulsifier can cross the blood brain barrier, ferrying any other ingredients into the brain.

Ask your doctor what vaccines they use and then read the eye-opening product monographs. [Product monographs](#) are available online at [www.vaccines411.ca](http://www.vaccines411.ca) under the health professionals tab.