

Vaccines

Vaccine	Prevent	Type	Administration	Side Effects	Contraindications
BCG	Tuberculosis	Attenuated	Intradermal at the insertion of the deltoid	- Fever - Pain and scarring locally - Lymphadenitis - Osteomyelitis (rare)	- Impaired immunity
IPV	Poliomyelitis	Inactivated	IM in the thigh	- Redness and pain locally	- Antibiotics allergy (e.g., neomycin or streptomycin)
OPV	Poliomyelitis	Attenuated	Oral drops	- Vaccine-associated paralytic poliomyelitis	- Severe immunosuppression - Febrile illness
DPT	Diphtheria, Pertussis, Tetanus	Tetanus and diphtheria toxoids and inactivated whole-cell pertussis	IM in the vastus lateralis of the thigh	- Fever, fatigue - Seizure, encephalopathy (rare)	- History of anaphylactic rxn to vaccine ingredients
HBV	Hepatitis B	Recombinant (Subunit)	- IM in the anterolateral aspect of the thigh (<1 year) - IM in the deltoid (older children)	- Local pain	- History of anaphylactic rxn to previous doses, yeast, or neomycin
HiB	Hemophilus Influenza B	Polysaccharide Conjugate	- IM in the vastus lateralis of the thigh (young) - IM in the deltoid (older children)	- Redness or swelling locally - Fever	- History of anaphylactic rxn to previous doses
Rotarix	Rota virus	Attenuated	Oral drops	- Crying - Diarrhea and vomiting - Sore throat	- History of anaphylactic rxn to previous doses - Severe immunosuppression - Hx of intussusception
MMR	Measles Mumps Rubella	Attenuated	Subq in the anterolateral aspect of the thigh	- Pain or rash locally - Fever	- History of anaphylactic rxn to vaccine ingredients - Pregnancy - Immunosuppression
Td	Tetanus and diphtheria	Toxoids	IM in the vastus lateralis of the thigh	- Pain and redness - Headache - Myalgia - GI Sx	- History of anaphylactic rxn to vaccine ingredients

Notes:

- DTaP (acellular) produces fewer side effects and is a safer version of an older vaccine called DTP
- Live-attenuated vaccines are all contraindicated in immunosuppressed pts.
- BCG does not cause local scarring in 10%.

Child Vaccination Schedule of Jordam

Soon after birth – Day 40	BCG
2 months (Day 61)	IPV ₁ , DaPT ₁ , HBV ₁ , HiB ₁ , Rotarix ₁
3 months (Day 91)	IPV ₂ +OPV, DaPT ₂ , HBV ₂ , HiB ₂ , Rotarix ₂
4 months (Day 121)	OPV, DaPT ₃ , HBV ₃ , HiB ₃ , Rotarix ₃
10th month first day	OPV, Measles + Vit A
1st Year	MMR ₁ , HAV ₁
1.5 Years (18 months)	MMR ₂ , HAV ₂ , OPV (booster), DPT (booster)

Grade 1 (6 years)	OPV + Td
Grade 10 (16 years)	Td

Extra Note:

- Vitamin A enhanced the antibody response to measles vaccine given at 9 months of age significantly, especially in boys.

Useful external sources:

Adult Immunization Schedule for ≥ 19 years:

<https://www.cdc.gov/vaccines/schedules/hcp/imz/adult.html>

Recommended Child and Adolescent Immunization Schedule for ages ≤ 18 :

<https://www.cdc.gov/vaccines/schedules/hcp/imz/child-adolescent.html>