



# Immunization Schedule Recommended by IMA<sup>1-3</sup>

The following is the recommended immunization schedule for children from birth through 18 years according to the recommendations based on recent evidence for licensed vaccines in our country (Table 1).

**Table 1:** Recommended immunization schedule for children aged 0–18 years<sup>1,2</sup>

Age	Vaccine	Dose	Route	Site	Remarks
Birth (within 24–72 h of birth)	BCG	0.05 mL	ID	Left upper arm	Conventionally given on this site
	OPV-0	2 drops	Oral		
	Hep B-0	0.5 mL	IM	Left thigh	Mandatory before discharge (preferably within 24–72 hours of birth)
6 weeks	DTwP/DTaP1	0.5 mL	IM	Anterolateral aspect of thigh	Use combination vaccines whenever possible
	Hib-1				
	IPV-1				
	Hep B				
	PCV10/13-1				
	Rota-1	0.5–2 mL	Oral	Squirt toward buccal mucosa	<ul style="list-style-type: none"> <li>If RV5/RV116E, 3 doses one month apart</li> <li>If RV1, 2 doses one month apart</li> <li>First dose of rotavirus vaccine not be administered after 16 weeks</li> <li>Last dose of rotavirus vaccine not to be administered after 6 months for RV1, and not after 32 weeks for others</li> </ul>
10 weeks	DTwP/DTaP2	0.5 mL	IM	Anterolateral aspect of thigh	
	Hib-2				
	IPV-2				2 doses of IPV instead of 3 doses if started at 8 weeks' age. If so, 2 dose to be administered 8 weeks apart
	Hep B				
	PCV10/13-2				
	Rota-2	0.5–2 mL	Oral	Squirt toward buccal mucosa	2 doses for RV1
14 weeks	DTwP/DTaP3	0.5 mL	IM	Anterolateral aspect of thigh	
	Hib-3				
	IPV-3				
	Hep B				
	PCV10/13-3				
	Rota-3	0.5–2 mL	Oral	Squirt toward buccal mucosa	RV5/RV116E is administered as 3 doses
6 months	Hep B	0.5 mL	IM		If following 0, 1, & 6 months schedule
	OPV-1	2 drops	Oral		
	IIV-1	0.25 mL	IM		High-risk groups
7 months	IIV-2	0.25 mL	IM		
9 months	OPV-2	2 drops	Oral		
	MMR-1/MR	0.5 mL	SC		After 270 completed days
	Meningococcal conjugate vaccine-1	0.5 mL	IM		High-risk groups
10 months	Typhoid conjugate vaccine-1	0.5 mL	IM		At least 1-month gap between MMR and TCV
12 months	Hepatitis A (killed or live)	0.5 mL	IM (killed) or SC (live)		Single dose for live hepatitis A
	JE-1	0.25 mL	IM		In endemic areas <3 years age
	Cholera vaccine		Oral		Hyperendemic/outbreaks: 2 doses administered 2 weeks apart and a booster dose after 2 years
13 months	JE-2	0.25 mL	IM		In endemic areas <3 years age
15 months	MMR-2	0.5 mL	SC		
	Varicella -1	0.5 mL	SC		
15–18 months	PCV- booster	0.5 mL	IM		
16–18 months	DTwP/DTaP (Booster 1)	0.5 mL	IM		Combination vaccines preferred
	IPV –Booster	0.5 mL	IM		
	Hib –Booster	0.5 mL	IM		
18 months	Hepatitis A (killed)-2	0.5 mL	IM		2 <sup>nd</sup> dose only for killed vaccine
2 years	Typhoid conjugate-2 or Typhoid polysaccharide	0.5 mL	IM	Upper arm	<ul style="list-style-type: none"> <li>Polysaccharide typhoid vaccines repeated every 2–3 yearly</li> <li>If a typhoid conjugate vaccine is being given the first time at/after 2 years, a single dose will suffice.</li> </ul>
	Meningococcal-2	0.5 mL	IM		If meningococcal conjugate vaccine is being given at first time at/after 2 years, a single dose will suffice
4–6 years	DTwP/DTaP/Tdap (Booster 2)				OPV up to 5 years of age
	MMR 3				
	Varicella-2				2 <sup>nd</sup> dose of varicella may be given 3 months after first dose
	OPV-3				
9 years onwards (girls)	HPV				<ul style="list-style-type: none"> <li>If started before the 15<sup>th</sup> completed birthday, give 2 doses 6 months apart.</li> <li>If started after the 15<sup>th</sup> completed birthday, 3 doses to be given.</li> <li>If HPV4 -0, 2, 6 months.</li> <li>If HPV2- 0, 1, 6 months.</li> </ul>
10 years	Tdap/Td	0.5 mL	IM		Tdap is preferred over Td
16 years	Td/TT	0.5 mL	IM		Repeat every 10 yearly

OPV: Oral polio vaccine; DTwP: Diphtheria tetanus whooping cough pertussis; DTaP: Diphtheria tetanus acellular pertussis; Tdap: Tetanus reduce dose of diphtheria (acellular) pertussis; Td: Tetanus diphtheria; DT: Diphtheria, Tetanus, and whole cell pertussis; Hib: *Haemophilus influenzae*; IPV: Inactivated polio vaccine; IIV: Inactivated influenza vaccine; Hep B: Hepatitis B; Rota: Rotavirus; iPCV: Pneumococcal Conjugate Vaccine; HPV: Human papilloma virus vaccine; MR: Measles-Rubella; MMR: Measles, mumps, and rubella; MMRV: Measles, mumps, rubella varicella; BCG: Bacillus Calmette–Guérin.

#### References

- Ministry of Health. 2017. Immunization Handbook. Wellington: Ministry of Health. Available at: [https://www.health.govt.nz/system/files/documents/publications/immunisation-handbook-2017-2nd-editionmar18-v2\\_0.pdf](https://www.health.govt.nz/system/files/documents/publications/immunisation-handbook-2017-2nd-editionmar18-v2_0.pdf). Accessed on: 28 September 2018.
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- IMA Life Course Immunization Guidebook-2018.