

Hepatitis B prevention in India

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Hepatitis B Prevalence/incidence in India

	% Hep B (HBsAg) positives
General population	2-8%
Blood donors	0.2-4%
Pregnant women	0.9% to 1.1%
Healthcare workers	0.4–1.4%
Children < 5 years	2.14–2.25%
Entire paediatric population	4.3–7.2%
HIV positive pts	9-16% in metro cities
IV drug abuse	2.7-10%
Tribal population	3.2%

	% HBeAg +
Hep B pos pregnant women	56.8



Vaccination schedules 2018-India

Available free from the gov
 Recommended not for free

Immunization schedule

Disease	Vaccine Name/brand	Birth	2w	6 w	10w	14w	6m	9m	15m	18m	5 Y	9/10Y	12/13y
TB (BCG)		√											
Oral Polio		√								√	√		
Diphtheria/Tetanus/pertussis/Polio/ Haemophilus Influenzae				√	√	√ + IPVF				√			
Hepatitis B		√		√	√	√							
Rotavirus				√	√	√							
Measles or MMR								√		√			
Menigococcal Menegitis													
Pneumococcal				√	√			√					
Hepatitis A													
Chickenpox													
HPV													
Influenza													
RSV													

Vaccination coverage India

Immunization coverage				
	Year (Before 2000) %	Year (2000-2005) %	Year (2005-2010) %	Year (most recent) %
BCG				
DTP1				
DTP3				
HepB3			6-38	88
HepB_BD			8	53
Hib3				
IPV1				
JapEnc				
MCV1				
MCV2				
PAB				
PCV1				
PCV2				
PCV3				
Pol3				
RCV1				

Vaccines:

BCG	Bacille Calmette Guérin vaccine	HepBb	HepB birth dose
DTP1	First dose of diphtheria toxoid, tetanus toxoid and pertussis vaccine	DTP3	Third dose of diphtheria toxoid, tetanus toxoid and pertussis vaccine
HepB3	Third dose of hepatitis B vaccine	Hib3	Third dose of Haemophilus influenzae type B vaccine
Pol3	Third dose of polio vaccine	PCV3	Third dose of Pneumococcal Conjugate
Rotac	Rotavirus last dose	Rcv1	First dose of Rubella Containing Vaccine
MCV1	First dose of Measles-containing vaccine	MCV2	Second dose of Measles-containing vaccine

Hanoi, Vietnam, July 2018

Universal vaccination of hepatitis B in India

Hepatitis B	Yes/no	Target <small>(who is vaccinate + age (if relevant))</small>	Since/period
Universal	Yes		2002 Birth dose since 2008 ^{1,2}
Risk groups			

1. http://www.searo.who.int/india/mediacentre/events/2016/hepatitisb_birth_dose_vaccination_in_india.pdf
2. Puri P. Tackling the Hepatitis B Disease Burden in India. Journal of Clinical and Experimental Hepatology. 2014;4(4):312-319. doi:10.1016/j.jceh.2014.12.004.



Hepatitis B prevention- Immunization (combined/mono valent)

Available hepatitis vaccines	Disease	NAME (producer)	Target group
Monovalent	HepB	Engerix (GSK) Genevac B (SII) B-Vac (Biological) HB Vac (Zydus) Invac-B (Intas) Heoaccine-B (Bharat Serum)	All
Combined	DTwP/HepB/Hi B	Pentavac (SII) Com 5(Bharat Biotech)	All
Combined	DTaP/HepB/IP V/HiB	Hexaxim (Sanofi Pasteur) Infanrix (GSK) Easy Six (Panacea)	

Hepatitis B prevention- Immunization (combined/mono valent)

Issues with hepatitis/ Combined vaccination (what are the problems in your country with use of combined Hep B vaccination)

- Vaccines not covered in insurance-
- Less affordability for acellular
- Myths regarding combination vaccines as well as for high priced vaccines
- Cold chain issues

Opportunities (how do you think this issues can be solved)

- Availability of Wide range of locally manufactured vaccines
- Comparatively better acceptance for whole cell pertussus containing Hepatitis B combination vaccine

Extra information on birth dose(BD)vaccination

India

	Yes/no	Since/period	Coverage
Birth dose vaccination in universal vaccination program	Yes	2008	53%

Issues with BD in your country

- Home delivery
- Early discharge of mother for institutional delivery
- Lack of awareness about importance of birth dose in obstetricians
- Un availability of monovalant Hepatitis B vaccine in public sector hospitals

Successes with BD in your country

