Hepatitis B prevention in Taiwan

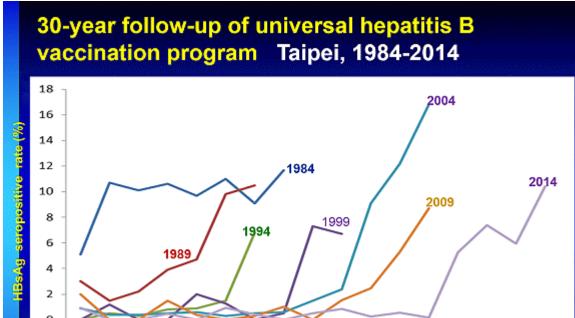
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Hepatitis B Prevalence/incidence in (country)

	% Hep B (HBsAg) positives
General population	Pre-vaccine cohort (born before 1984): 10% - 20% Post-vaccine cohort (born after 1985): 0.5% - 1%
Blood donors	0.26% (2017)
Pregnant women	10-15%
Healthcare workers	10-15%
Other	
	% HBeAg +
Hep B pos pregnant women	32% (1996-2005)





Prevention and control of hepatitis B with combined vaccines, and birth dose vaccination

Vaccination schedules 2018



Available free from the gov Recommended not for free

Immunization schedule

Disease	Vaccine Name/brand	Birth	4w	2m	4m	6m	12m	15 m	18m	5-6Y	11- 12y	13-15y
TB (BCG)	Japan BCG Laboratory					5-8 m						
Polio												
Diphtheria/Tetanus/pertu ssis/Polio/ <i>Haemophilus</i> Influenzae type b	Sanofi Pasteur GSK									DTaP/IPV		
Hepatitis B	MSD, GSK											
Rotavirus	MSD, GSK					Rotateq onlly						
Measles or MMR	MSD, GSK						MMR			MMR		
Menigococcal	Sanofi Pasteur										For high	risk
Pneumococcal	Pfizer											
Hepatitis A	MSD, GSK								18-21 m			
Chickenpox	MSD, GSK											
HPV	TBD											2 doses
Influenza	GSK, Sanofi Pasteur, Novartis, Adimmune											
RSV	Synagis	For hig	gh-risk inf	ants								

Vaccination coverage

Immunization coverage							
	Year 1998 (Before 2000) %	Year 2005 (2000-2005) %	Year 2009 (2005-2010) %	Year 2015 (most recent) %			
BCG	96.5	97.4	97.7	98.2			
DTP1	96.7	97.0	98.1 (DTaP-IPV)	98.7 (DTaP-Hib-IPV)			
DTP3	95.1	95.2	96.3 (DTaP-IPV)	97.6 (DTaP-Hib-IPV)			
НерВ3	95.3	96.1	96.6	97.8			
HepB_BD	96.8	97.5	98.3	98.6			
Hib3	-	-	-	97.6 (DTaP-Hib-IPV)			
IPV1	96.7 (OPV)	97.0 (OPV)	98.1 (DTaP-IPV)	98.7 (DTaP-Hib-IPV)			
JapEnc3	88.4	91.0	91.6	93.6			
MCV1	94.4	96.2	97.9	98.2			
MCV2	≥ 97.5	97.9	98.3	97.4			
PAB							
PCV1	_	_	_	98.4			
PCV2	_	_	_	97.6			
PCV3	_	_	_	93.4			
Pol3	95.1	95.1	96.3	97.6 (DTaP-Hib-IPV)			
RCV1	94.4	96.2	97.9	98.2			

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	BCG	Baccille 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
	НерВ3	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



Prevention and control of hepatitis B with combined vaccines, and birth dose vaccination

Universal vaccination of hepatitis B in your country

Hepatitis B	Yes/no	Target (who is vaccinate + age (if relevant))	Since/period
Universal	Yes	All neonates (0-1-6 month schedule)	1984
Risk groups	Yes	Medical personnel	2006



Hepatitis B prevention-Immunization

(combined/mono valent)

Available hepatitis vaccines	Disease	NAME (producer)	Target group
Monovalent	НерВ	MSD, GSK	neonates
Combined			

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

 Using hepatitis B vaccine-containing combined vaccine may have to delay 2nd dose of HB vaccine injection from 1 month of age at current schedule to 6 weeks to 2 months of age. This may bring about a negative impact of our screening program for biliary atresia. The program screen for stool color at 1 month of age. Identification of biliary atresia with 1 month is of vital importance in treatment outcome of children with biliary atresia.

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

• Using combined vaccine at 4 weeks?



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Extra information on birth dose(BD)vaccination

	Yes/no	Since/perio	d	Coverage			
Birth dose vaccination in universal vaccination program	Yes	1984		98.7%			
Issues with BD in yo	our count	ry	Successes with BD in your country				
 HBIG for neonates bo)/HBsAg(+) 	rn to HBeA	g(-	Decrease of full	sAg carriage rate minant hepaititis in infants patocellular carcinoma in			

