

Child's Immunization Status

Catch-up immunization

Sibu Refresher Course
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When immunization C/I

- **Live vaccines** (BCG, Polio, MMR, **IMOJEV**) avoid in children with immunodeficiency ds, AIDS or on immunosuppressive agents or irradiation
 - Asymptomatic HIV - all the vaccines can be given
- **Convulsions or shock** within 3/7 of a previous dose of DTaP - avoid subsequent DTaP
 - Give DT instead of DTaP
- **Concurrent convulsions or active CNS ds** avoid DTaP
- **High fever** – axillary temp $\geq 38.5^{\circ}\text{C}$

Special Contraindications

- **Hep B: Hypersensitivity to Aluminium**
 - Not indicated for HBV carrier or Hep B-immunized patient
- **Pertussis:**
 - **absolute contraindications:**
 - *anaphylaxis to previous dose*
 - *encephalopathy develops within 7/7 of vaccination*
 - **precautions:**
 - *severe reactions to previous dose*
 - *progressive neurological diseases*
- **Diphtheria and Tetanus: hypersensitivity to aluminium and thiomersal**
- **MMR: severe reaction to eggs or neomycin**

- **Immunization status for all sick or well children:**
- **Illness is NOT a contraindication to immunization**
- Important to know:
 - Has the child received all the immunizations recommended for his or her age?
 - Does the child need any immunization today?

Live Vaccine: Absolute contraindications

- Immunosuppression: malignancy, irradiation, leukemia, lymphoma, primary immunodeficiency syndromes
- On chemotherapy or $< 6/12$ after last dose
- High dose steroid: prednisolone $> 2\text{mg/kg/day}$ or low dose systemic > 2 weeks (delay vaccination for 3 months)
- Within 3/12 of IV Ig
- Pregnancy

Current Immunization Schedule

Age	Vaccination	Vaccination	Vaccination
At birth	BCG	Vitamin K	Hepatitis B 1
1 month			Hepatitis B 2
2 month	(DTaP + Hib + IPV) 1		
3 month	(DTaP + Hib + IPV) 2		
5 month	(DTaP + Hib + IPV) 3		
6 month		Measles (Penan)	Hepatitis B 3
9 month		MMR 1	IMOJEV 1
10 month			
12 month		MMR 2 (B)	
21 month			IMOJEV 2 (B)
24 month	(DTaP + Hib + IPV) 4		

- Vit K – Vitamin K- prevent hemorrhagic disease of newborn in the brain. Can give up to 3 month-old
- BCG - Bacille Calmette-Guérin (BCG) is a vaccine against tuberculosis
 - Strain of the attenuated (weakened) live bovine tuberculosis bacillus
- DTaP + Hib + IPV - is a mixture of 5 vaccines
 - Immunize against diphtheria, pertussis (whooping cough), tetanus, invasive Haemophilus influenza type B dz and poliomyelitis
 - The Hib -prevention of invasive disease caused by Haemophilus influenza type B bacteria
 - The IPV or inactivated polio vaccine replaces OPV
- Hep B - is a vaccine against hepatitis B
- JE vaccine – **Live attenuated IMOJEV since 2014**
- MMR – Measles, Mumps & Rubella is a live-attenuated vaccine to immunize against measles, mumps & rubella

Guideline for **Catch up** Immunization Schedule

Catch up Immunization Schedule for children 2 month up to 6 year-old

- **Rule No.1:** Immunization must be at least 4/52 apart
- **Rule No.2:** Practice Opportunistic Immunization
- **Rule No.3:** (DTaP+Hib+ IPV)1 can be given at 7/52 old if Opportunistic Immunization is indicated*
- **Rule No.4:** Many vaccines can be given together simultaneously but must be given at different sites

Catch Up Immunization Schedule

VS

Delayed Normal Schedule

Recommended Interval between doses
for **Catch up** Immunization Schedule for 2 m/o up to 6 y/o

Vaccine	Min age for dose	Recommended Interval between dose		
		Dose 1-2	Dose 2-3	Dose 3-4
Hepatitis B	Birth	4-6 week	5-12 months	
DTaP + Hib + IPV	8/52	4-6 week	4-6 week	6-12 month
IMOJEV	9/12	12-24 month		
MMR	9/12	3-12 month		

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Rule for BCG

- Check BCG scar -- No scar
- Pinpoint scar \leq 2mm
- Never given BCG before
- Check 1st BCG scar at 3 month-old or 3/12 after repeat
- Can give BCG **up to 7 year-old**
- Repeat BCG 1 time, if no scar \rightarrow refer MO / FMS
- Repeat BCG maximum 2 times for those no scar or pinpoint scar

Rule for Hep B

- To repeat the whole schedule at 0, 1, 6 month if the gap is more than 1 year

Rule for IVIg

- Withhold **live vaccine** for 3/12 starting IVIg day
- Withhold **killed vaccine** for 1/12 starting IVIg day

Premature baby

- All give Vit K 1 ml at birth
- To give BCG and Hep B 1 at 1.8kg upon discharge

SHS

- Primary 1 – DT, M (**MR** / MMR)
- Form 1 (Girl) – HPV (0,1,**6** month)
- Form 3 -- ATT

Sequence of planning the catch up

1. Look into the normal schedule see what are the immunization missed
2. List down all the missed immunization
3. Refer to the catch up schedule
4. Arrange the immunization following shortest catch up interval
5. Follow the 4 rules and rule of Hep B & BCG & SHS practice

Scenario 1

- Baby born 1/1/2016 (Penan)
- Given BCG, Hep B1, then defaulted
- Now 1/8/2016: what to give
- How to follow up subsequent visits?
- When will this patient immunization schedule same with peers? (at what age)

Scenario 2

- Baby born 1/6/2015 (Penan)
- Given BCG, Hep B1, then defaulted
- Now 1/8/2016: what to give
- How to follow up subsequent visits?
- When will this patient immunization schedule same with peers? (at what age)

Ask 1 participant to do, another 1 to check, then facilitator comment

Scenario 3*

- Baby born 1/5/2010
- Given BCG, Hep B1, then defaulted
- Now 1/8/2016: what to give
- How to follow up subsequent visits?
- When will this patient immunization schedule same with peers? (at what age)

Special consideration

- If possible, to give all immunization needed in one seating
- If mother only want 2 injections
- Choose DTaP+IPV+Hib & MMR to cover 8 diseases

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Thank You