

# Confusing Vaccination Program

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# Outline



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From birth to elderly  
Vaccines & confusing issues  
Q&A (20 questions)  
Duration (1.5 hr)  
Questions from participants

# Infant (0-6 mo)



**Q1: BCG** Cost-benefit

New BCG vaccine... When?

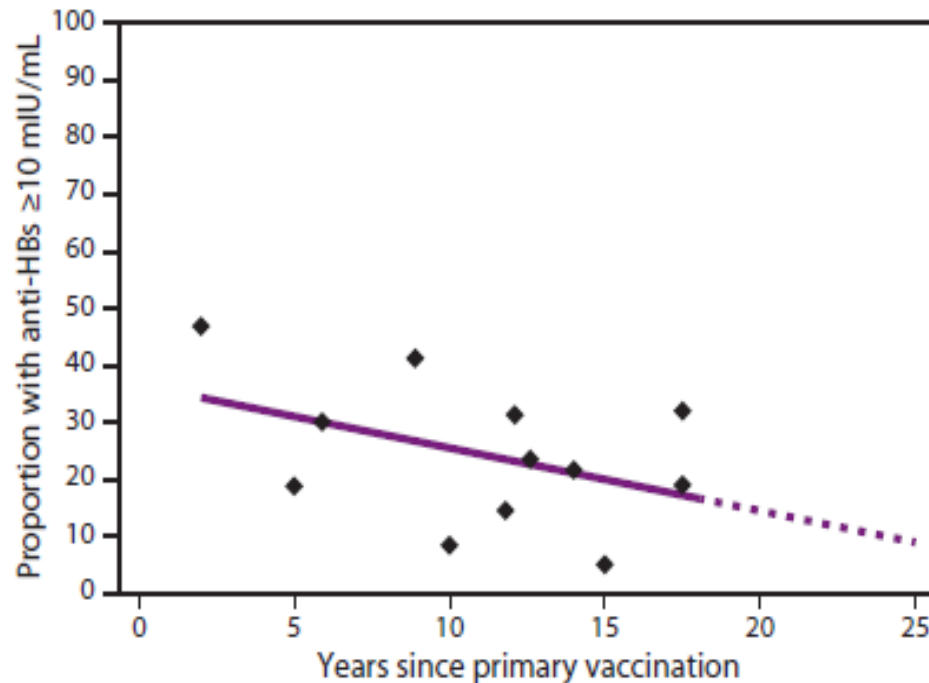
**Q2: HB** Number of doses

Infants born to HBsAg +ve mothers

Which doses are important?

# Serologic evidence of protection, by years since vaccination among persons vaccinated at age <1 year

ภูมิคุ้มกันที่เกิดจากวัคซีน จะลดลงตามกาลเวลา จนไม่สามารถตรวจพบได้



By 18 years after vaccination, approximately 16% of persons vaccinated at age <1 year have detectable antibody levels of  $\geq 10$  mIU/mL (49–54), compared with 74% for those vaccinated at age  $\geq 1$  year (41,54–62).

*Samandari T, Fiore AE, Negus S, et al. Pediatrics 2007;120:e373–81.*

*Petersen KM, Bulkow LR, McMahon BJ, et al. Pediatr Infect Dis J 2004;23:650–5.*

*Hammitt LL, Hennessy TW, Fiore AE, et al. Vaccine. 2007;25:6958–64.*

*Dentinger CM, McMahon BJ, Butler JC, et al. Pediatr Infect Dis J 2005;24:786–92.*

*Middleman AB, Baker C, Hu DJ, et al. Presented to the Pediatric Academic Societies, Boston, MA, April 29, 2012.*

# Hepatitis B vaccine is effective for up to 15 years

<b>1129 children 8-10 yr in 1995 received booster at 5, 10,15 y</b>		
<b>Boost at year (N=220 each)</b>	<b>% Preboost <math>\geq 10</math> IU/L</b>	<b>% Preboost <math>\geq 100</math> IU/L</b>
<b>5 yr</b>	<b>90%</b>	<b>68%</b>
<b>10 yr</b>	<b>90%</b>	<b>61%</b>
<b>15 yr</b>	<b>77%</b>	<b>37%</b>
<b>All had Ab <math>\geq 10</math> IU/L after booster</b>		

Antibody may drop over time but can be boosted

Gilca V et al. *Antibody persistence and the effect of a booster dose given 5, 10 or 15 years after vaccination with a recombinant hepatitis B vaccine*. 52nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, abstract G-1047, 2012.