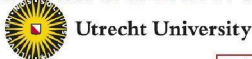
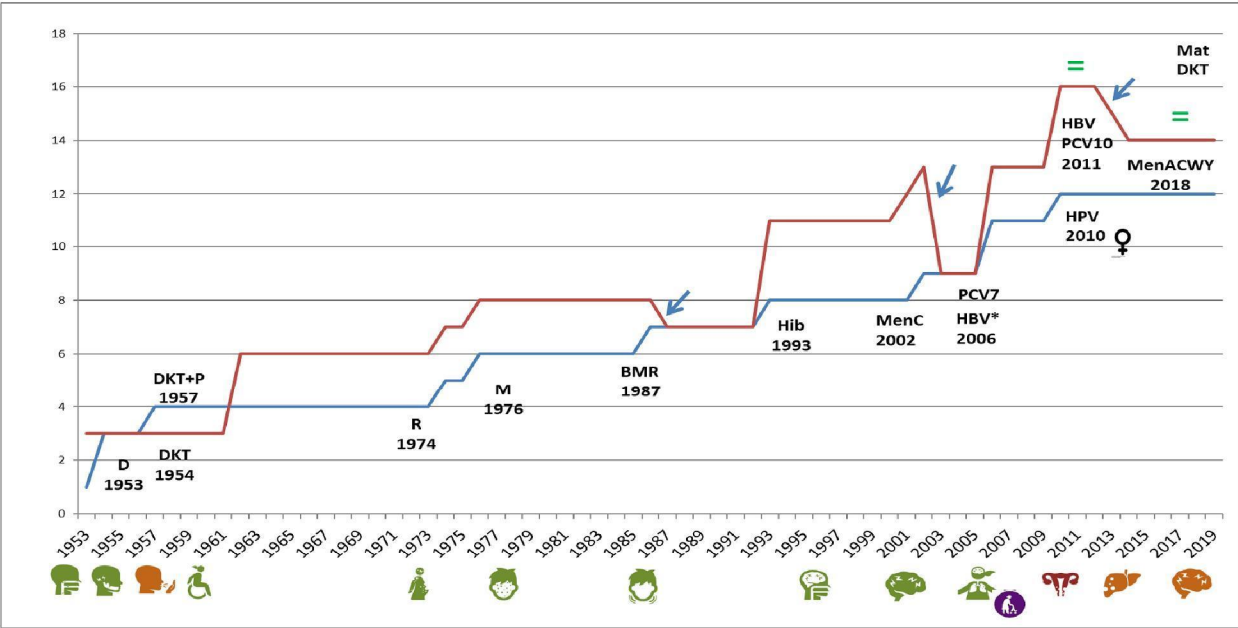


Development of the National Immunization Program 1953-2019











Rode lijn: aantal prikken per kind (niet zelfde als prikmomenten, er kunnen twee prikken nodig zijn op een moment)
Blauwe lijn: aantal ziektes waarvoor beschermd wordt



National Immunization Programme anno 2020

Which vaccines will my child receive?

● Vaccination 1 ■ Vaccination 2


<p>3 months</p> <ul style="list-style-type: none"> ● DTaP-IPV-Hib-HBV ■ PCV 	<p>5 months</p> <ul style="list-style-type: none"> ● DTaP-IPV-Hib-HBV ■ PCV 	<p>11 months</p> <ul style="list-style-type: none"> ● DTaP-IPV-Hib-HBV ■ PCV 	<p>14 months</p> <ul style="list-style-type: none"> ● MMR ■ MenACWY 
<p>4 years</p> <ul style="list-style-type: none"> ● DTaP-IPV 	<p>9 years</p> <ul style="list-style-type: none"> ● DT-IPV ■ MMR 	<p>12/13 years* (Vaccination 2: half a year later)</p> <ul style="list-style-type: none"> ● HPV ■ HPV 	<p>14 years</p> <ul style="list-style-type: none"> ● MenACWY 

Extra DTaP-IPV-Hib-HBV vaccination at the age of 2 months
 A child receives an extra vaccination at the age of 2 months if the mother was not vaccinated against whooping cough (pertussis) during pregnancy, and in case of special circumstances. The doctor or nurse at your well baby clinic will discuss this with you.

List of abbreviations

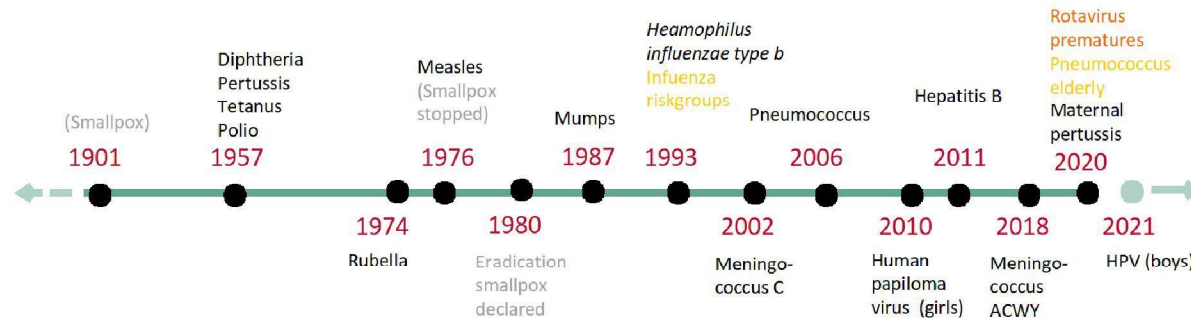
D Diphtheria	IPV Poliomyelitis	PCV Pneumococcal disease	R Rubella
T Tetanus	Hib Haemophilus influenzae type b	M Mumps	MenACWY Meningococcal ACWY
aP Pertussis (whooping cough)	HBV Hepatitis B	M Measles	HPV Human papillomavirus

* Only for girls



Source: <https://rijksvaccinatieprogramma.nl>

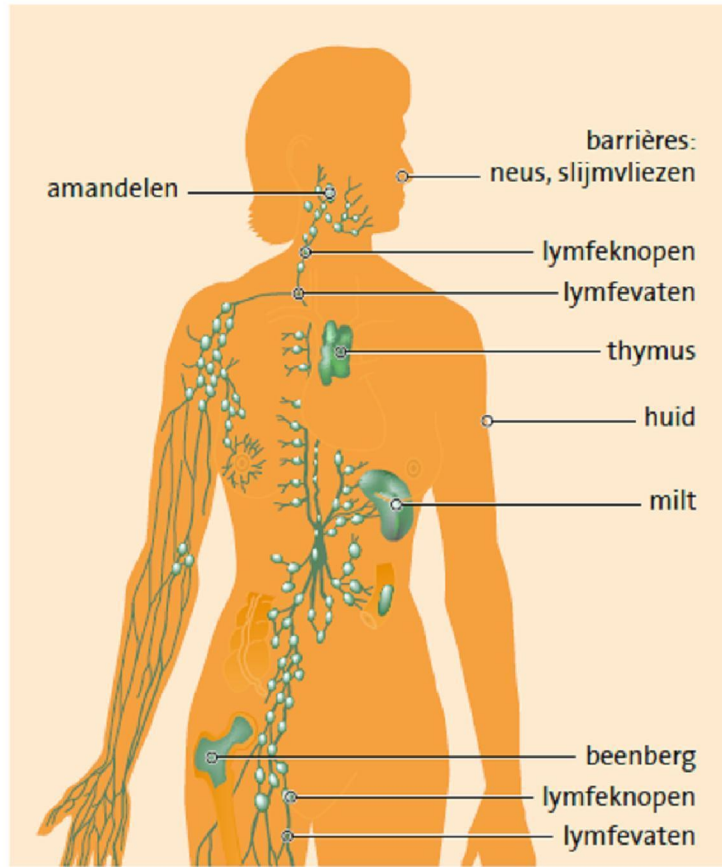
Time line programmatic vaccination in NL



Clinical research and evidence-based introduction of:

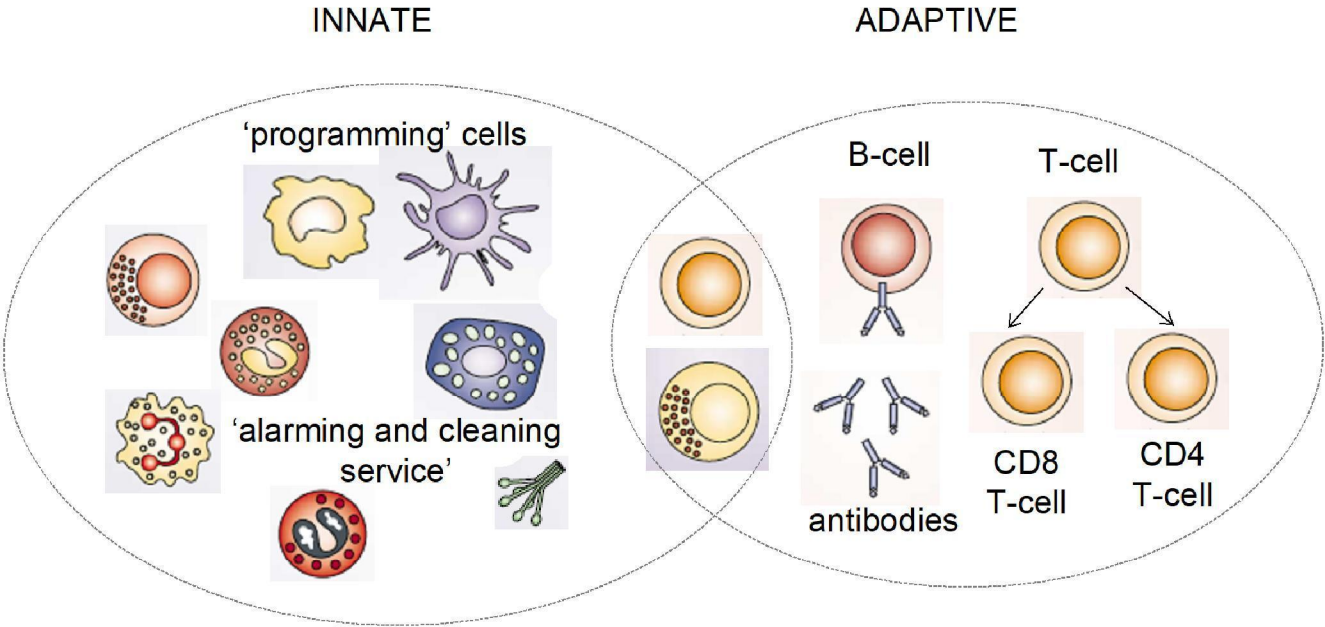
- new components
- removal components
- new combination vaccines
- altered calendar or dose

Immune system

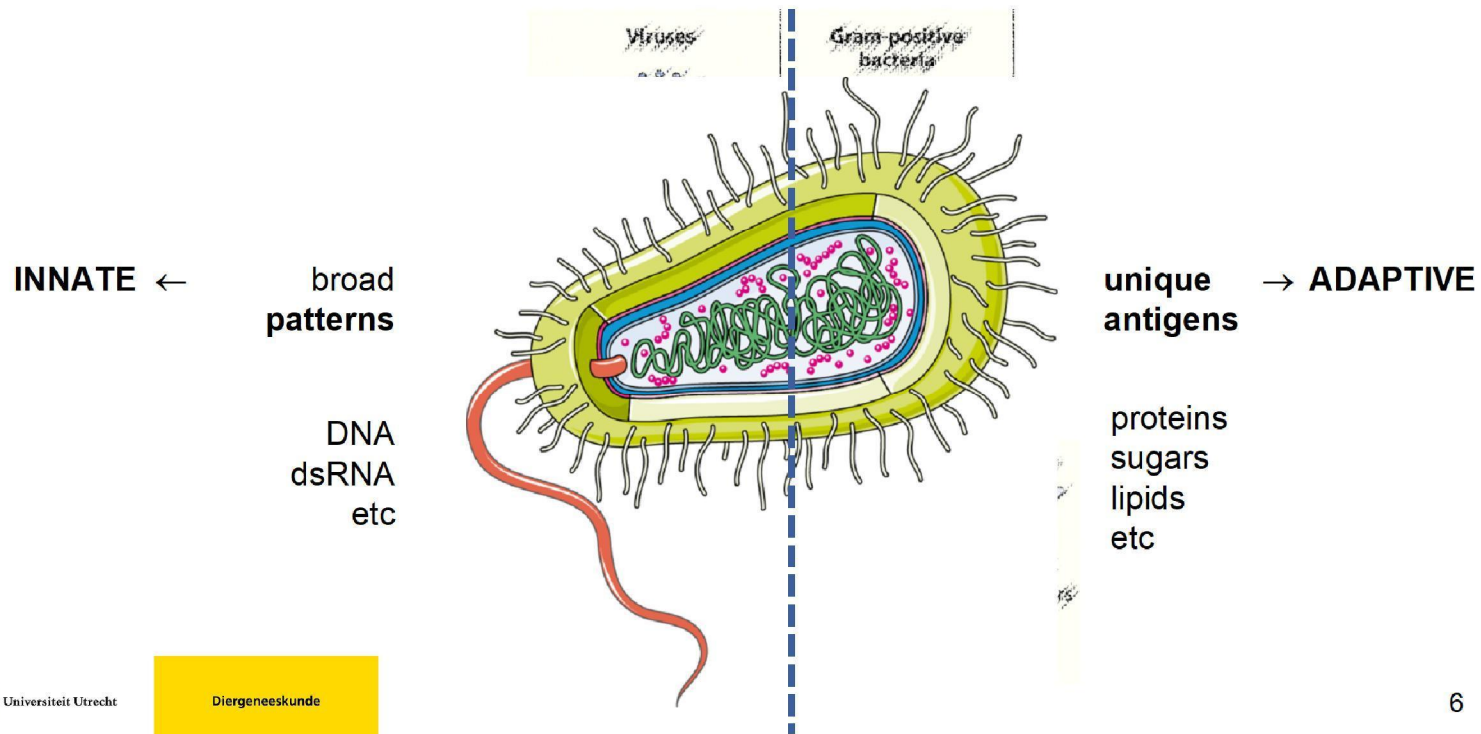


BW+M cahiers, Jos van den Broek©

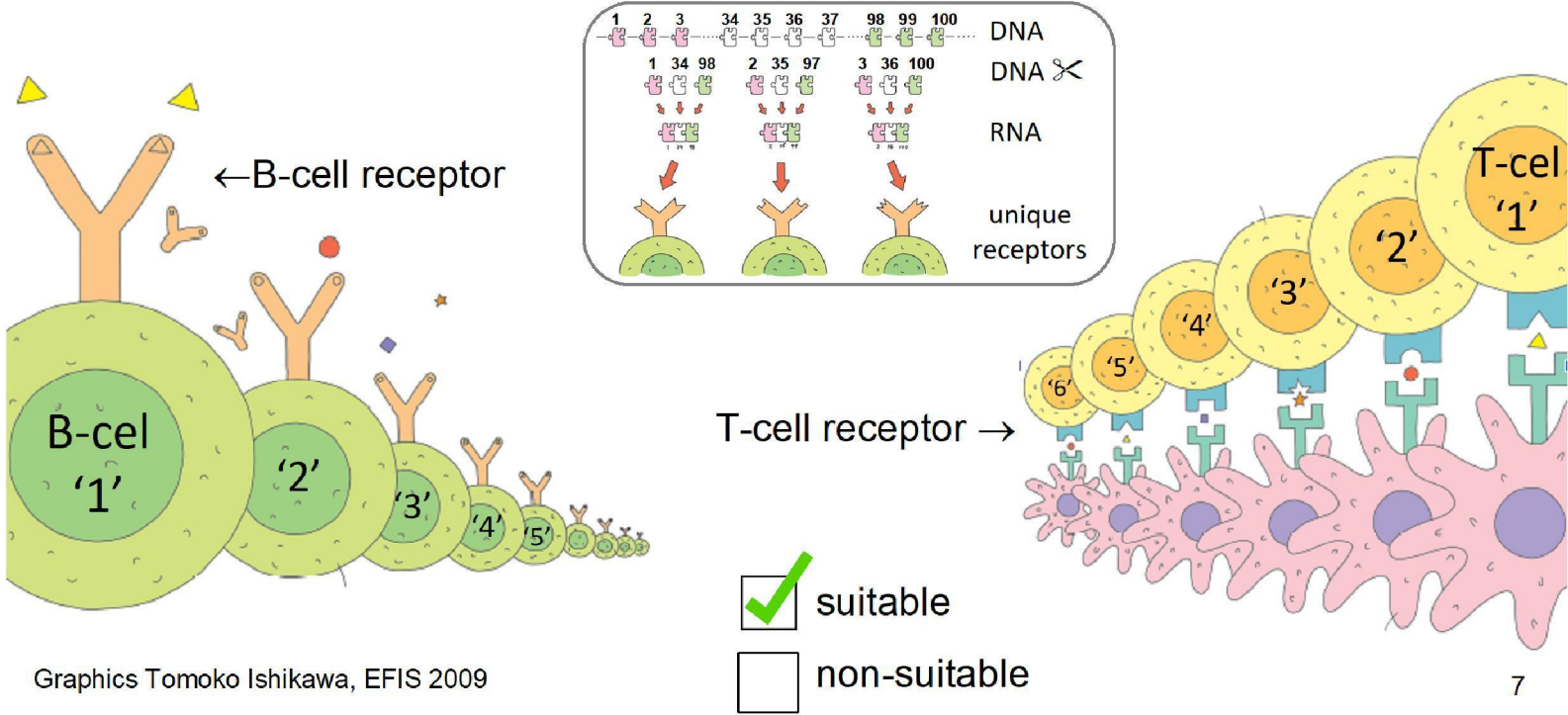
Key players in immunity



What is recognized by immune cells?

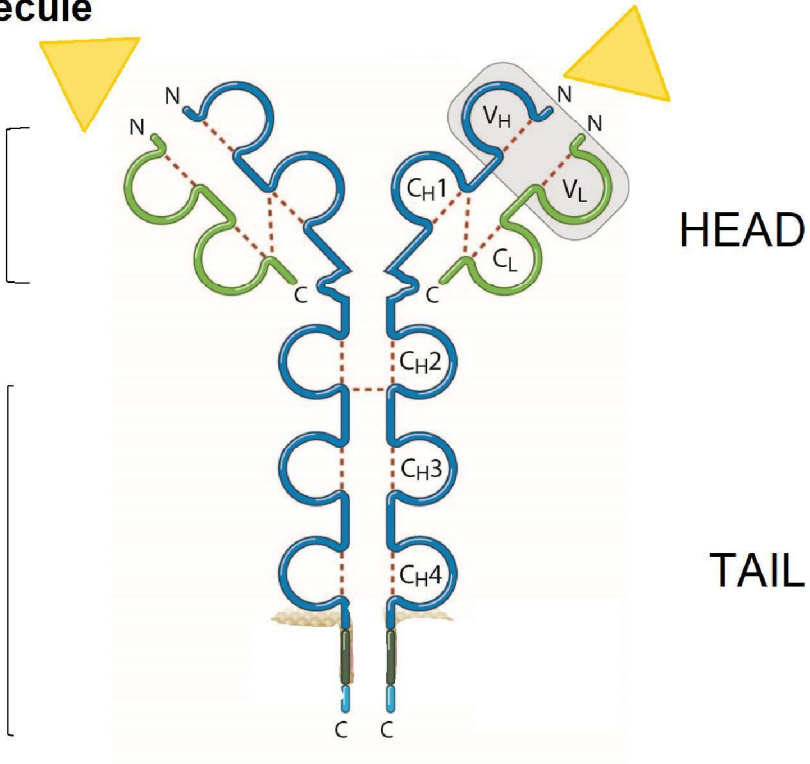


Endless repertoire of B and T-cell receptors

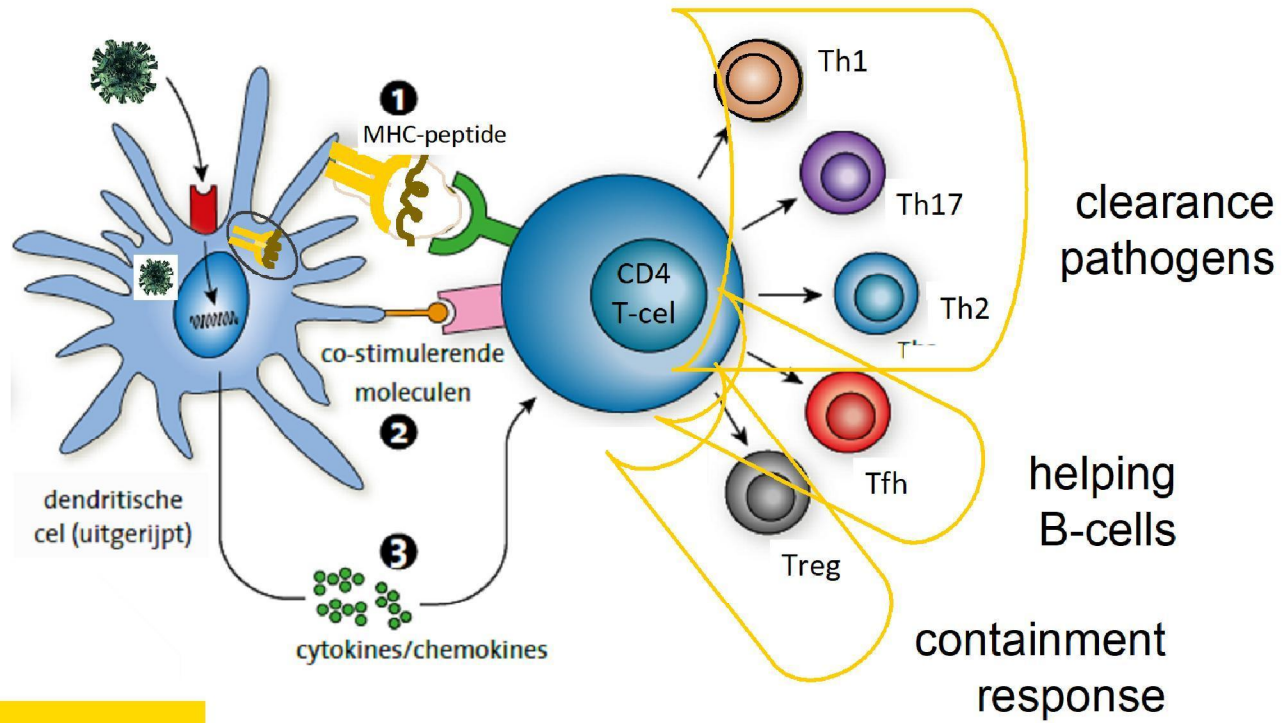


Graphics Tomoko Ishikawa, EFIS 2009

Function Y-shaped antibody molecule



Function CD4 T-cells



Adaptive 'learning' takes time ('slow cooking')

