

The Vaccine Merry-Go-Round

DTaP mass vaccination campaigns led to a rise in Hib meningitis



Hib mass vaccination campaigns led to a rise in pneumococcal & meningococcal meningitis

Meningitis — Inflammation of the membranes surrounding the brain & spinal cord

Viral

Bacterial

Hib disease

Haemophilus Influenza

6 encapsulated Strains

a,b,c,d,e,f
+ unencapsulated strains

Hib Vaccines for strain b

Act-Hib® & Hiberix®

Usually administered to babies and children with DTaP & Polio in

Pediacel® or Infanrix®

or with DTaP, Polio & Hep B in

Infanrix hexa®

Associated with Rise in

Type 1 diabetes, pneumococcal & meningococcal disease, and other strains of *Haemophilus Influenza* (a, c, d, etc)

Pneumococcal disease

Streptococcus pneumoniae

90 Strains

1, 2, 3, 4, 5, 6B, 7F, 8, 9N, etc

Pneumococcal vaccines

Pneumovax® adults

Prevnar 7® for babies & children now replaced by

Prevnar 13®

13 strains only

Associated with Rise in

Type 1 diabetes

May “increase carriage of and diseases of the other strains”

Most reactogenic vaccine

Efficacy untested

Duration unknown

Meningococcal disease

Neisseria meningitidis

at least 13 Strains

A, B, C, Y, W-135, 29E, D, H, I, K, Z, etc

Meningococcal vaccines

Bexsero® strain B

Meningitec® strain C

Menjugate® strain C

NeisVac-C® strain C

Menactra® strains ACYW

Menomune® strains ACYW

Menveo® strains ACYW

Men C mass vaccination campaigns have led to new and atypical C and B strains

B is the most virulent strain

Efficacy rates are unreliable and wane rapidly (3 years)

Based on information from the *Vaccine Safety Manual* by Neil Z. Miller and the *Canadian Immunization Guide (Active Vaccines)*