Meningococcal disease
Neisseria meningitidis

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

Viral

Hib disease
Haemophilus influenzae

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 PediaCeal® 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 influenzae (a, c, d, etc)

Bacterial

Pneumococcal disease
Streptococcus pneumoniae

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

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

Hib mass vaccination campaigns led to a rise in Hib meningitis

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

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)

Meningococcal vaccines
Bexsero® strain B
Meningitec® strain C
Menjugate® strain C
NeisVac-C® strain C
Menactra® strains ACYW
Menomune® strains ACYW
Menveo® strains ACYW

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