- Robbins JB, Lee C-J, Rastogi SC et al.Comparative immunogenicity of group 6 pneumococcal type 6A (6) and type 6B (26) capsular polysaccharides. Infect Immun 1979;26:1116-1122.
- Nielsen SV, Henrichsen J. Capsular types of Streptococcus pneumoniae isolated from blood and CSF during 1982-1987. Clin Infect Dis 1992;15:794-798.
- Butler JC, Breiman R, Lipman HB. et al. Serotype distribution of Streptococcus pneumoniae infections among preschool children in the United States, 1978-1994: implications for the development of a conjugate vaccine. J Infect Dis 1995;171:885-889.
- Eskola J, Takala A, Kela E. et al. Epidemiology of invasive pneumococcal infections in children in Finland. JAMA 1992;268:3323-3327.
- Saha SK, Rikitomi N, Biswas D. et al. Serotypes of Streptococcus pneumoniae causing invasive childhood infections in Bangladesh, 1992 to 1995. J Clin Microbiol 1997:35:785-787.
- Barker J, Gratten M, Riley I. et al. Pneumonia in children in the Eastern Highlands of Papua New Guinea: a bacteriologic study of patients selected by standard clinical criteria. J Infect Dis 1989;159:348-352.
- Kallenius G, Hedlund J, Svenson SB. et al. Pneumococcal bacteraemia in Sweden. Lancet (letter) 1997; 1:1910.
- Austrian R. Epidemiology of pneumococcal capsular types causing pediatric infections. *Pediatr Infect Dis J* 1989;8:S21-S22.
- Siegel J, Poziviak CS, Michaels RH. Serotypically defined pneumococcal infections in children. *J Pediatr* 1978;93:249-250.
- Scott JAG, Hall AJ, Ragan R. et al. Serogroup-specific epidemiology of Streptococcus pneumoniae: associations with age, sex, and geography in 7000 episodes of invasive disease. Clin Infect Dis 1996;22:973-981.

- Paton J, Toogood IR, Cockington RA. et al. Antibody response to pneumococcal vaccine in children aged 5 to 15 years. Am J Dis Child 1986;140:135-138.
- Heffron R. Pneumonia with special reference to pneumococcus lobar pneumonia. 2<sup>nd</sup> printing. Cambridge, Massachusetts: Harvard University Press, 1979.
- Finland M, Barnes MW. Changes in occurrence of capsular serotypes of *Streptococcus pneumoniae* at Boston City Hospital during selected years between 1935 and 1974. *J Clin Microbiol* 1977;5:154—166.
- Barry MA, Craven DE, Finland M. Serotypes of Streptococcus pneumoniae isolated from blood cultures at Boston City Hospital between 1979 and 1982. J Infect Dis 1984;149:449-452.
- Lund E. Types of pneumococci found in blood, spinal fluid and pleural exudate during a period of 15 years (1954-1969). Acta Path Microbiol Scand (B) 1970;78:333-336.
- Morch E. On the frequency of pneumococcus types in Denmark 1939-1947. Acta Pathol Microbiol Scand 1949;26:83-92.
- Douglas RM, Paton JC, Duncan SJ. et al. Antibody response to pneumococcal vaccination in children younger than five years of age. J Infect Dis 1983;148:131-137.
- 23. Giebink GS. Preventing pneumococcal disease in children: recommendations for using the current pneumococcal vaccine. *Pediatr Infect Dis J* 1985;4:343-348.
- Sniadack DH, Schwartz B, Lipman H. et al. Potential interventions for the prevention of childhood pneumonia: geographic and temporal differences in serotype and serogroup distribution of sterile site pneumococcal isolates from children. Pediatr Infect Dis J. 1995;14:5-10.

## Australian Recommendations for the Influenza Vaccine Composition for the 1999 Season

The meeting of the Australian Influenza Vaccine Committee (AIVC) on Influenza Vaccines was convened on 7 October 1998, in order to select virus strains for the manufacture of Influenza Vaccine for 1999 Season.

Having considered the information on international surveillance by WHO and up-to-date epidemiology and strains characterisation presented at the meeting the Committee considered that the WHO recommendations on the composition of vaccines for 1999 Season should be followed:

A (H3N2) an A/Sydney/5/97 (H3N2)–like strain, 15 μg HA per dose.
A (H1N1) an A/Beijing/262/95 (H1N1)–like strain, 15 μg HA per dose.
B a B/Beijing/184/93- like strain, 15 μg HA per dose.

It was also determined that the following viruses are suitable vaccine strains:

- The high yield reassortant viruses IVR-108 and RESVIR-13 are A/Sydney/5/97 (H3N2)-like strains
- The high yield reassortant virus X-127 is accepted as an A/Beijing/262/95 (H1N1)-like strain
- B/Harbin/7/94 is accepted as a B/Beijing/184/93-like strain