

XII LIST OF FIGURES

1. Kit for the collection of CSF.
2. Collection of CSF by lumbar puncture.
3. Collection of blood from an arm.
4. Processing of CSF.
5. Trans-Isolate medium.
6. *N. meningitidis*: proper streaking and growth on blood agar plate.
7. *S. pneumoniae*: proper streaking and growth on blood agar plate.
8. *H. influenzae*: proper streaking and growth on chocolate agar plate.
9. Gram stain of CSF:
 - a *N. meningitidis*: intra-cellular, Gram-negative diplococci,
 - b *S. pneumoniae*: Gram-positive diplococci, and
 - c *H. influenzae*: Gram-negative pleomorphic coccobacilli.
10. On chocolate agar plate, *H. influenzae* appear as large colourless to grey opaque colonies with no discolouration of the surrounding medium.
11. Overnight growth of *N. meningitidis* on blood agar plate appears as round, moist, glistening and convex colonies.
12. *S. pneumoniae* appear as small greyish mucoid (watery) colonies with a greenish zone of alpha-haemolysis surrounding them on the blood agar plate.
13. Presumptive identification of *N. meningitidis*, *S. pneumoniae*, and *H. influenzae*.
14. *N. meningitidis* (left), *S. pneumoniae* (right), and *H. influenzae* (top):
(a) growth on blood agar plate and (b) growth on chocolate agar plate.
15. Identification of *N. meningitidis*.
16. Kovac's oxidase test -- positive reaction.
17. Identification of *N. meningitidis* serogroup.
18. Cystine trypticase agar-sugar reactions differentiating *N. meningitidis* from other *Neisseria* species.
19. Identification of *S. pneumoniae*.
20. Optochin susceptibility test for identification of *S. pneumoniae*.
21. The bile solubility test.
22. Identification of *H. influenzae*.
23. Growth factor requirements for *H. influenzae*.
24. Growth factor requirements for *H. influenzae*: *Haemophilus* quad ID plate.
25. Silica gel packages for transport of isolates.
26. Quellung reaction for identification of *S. pneumoniae*.