

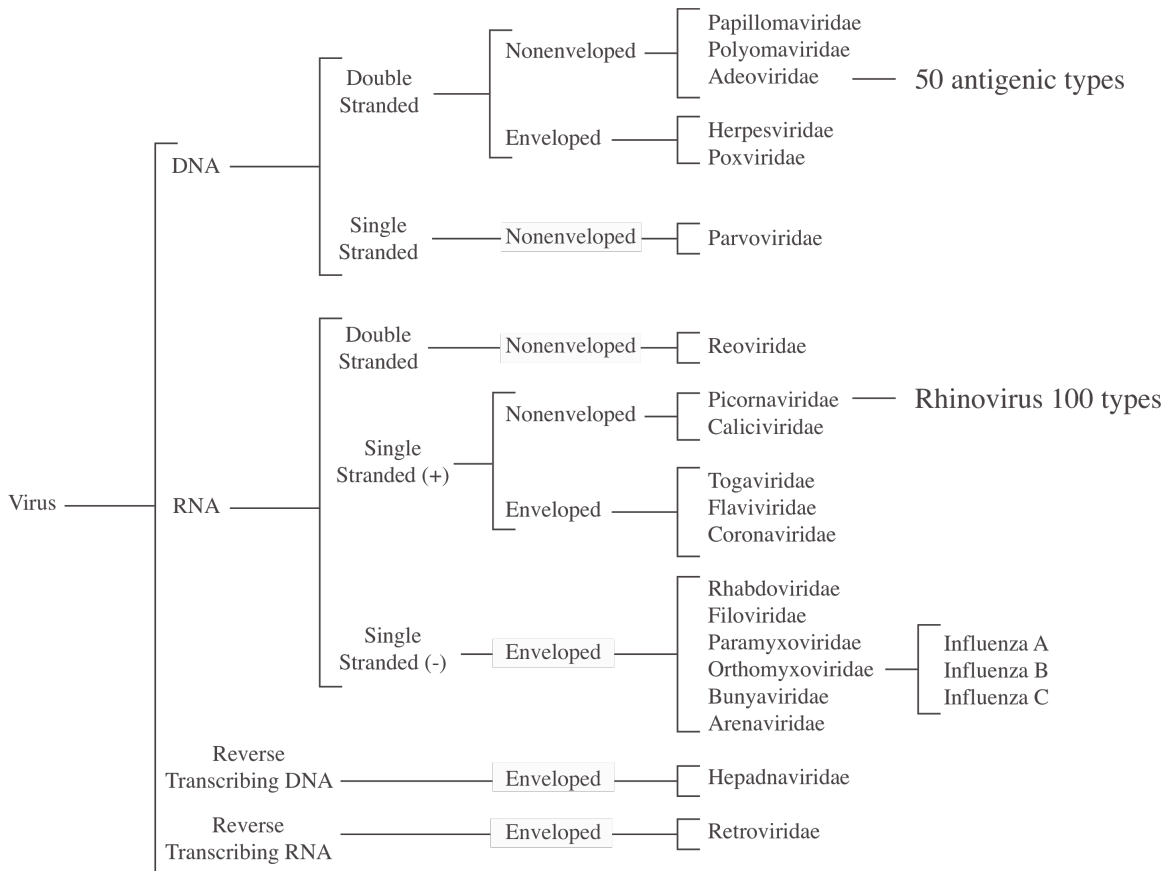
Viral Pathogens via Respiratory System

Chapter 21 (Pages 543 - 545; 558 - 562)

1. Introduction

A. Localized Infection

B. Generalized Infection



Source: Nester's Microbiology A human Perspective 8th edition by Anderson, Salm, and Allen

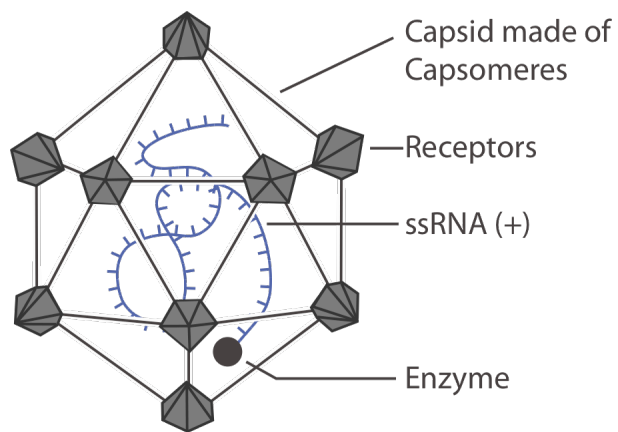
i. Viremia

2. Upper Respiratory System Viral Agents

- Common Cold Syndrome (Page 543)

A. Rhinoviruses

i. Structure



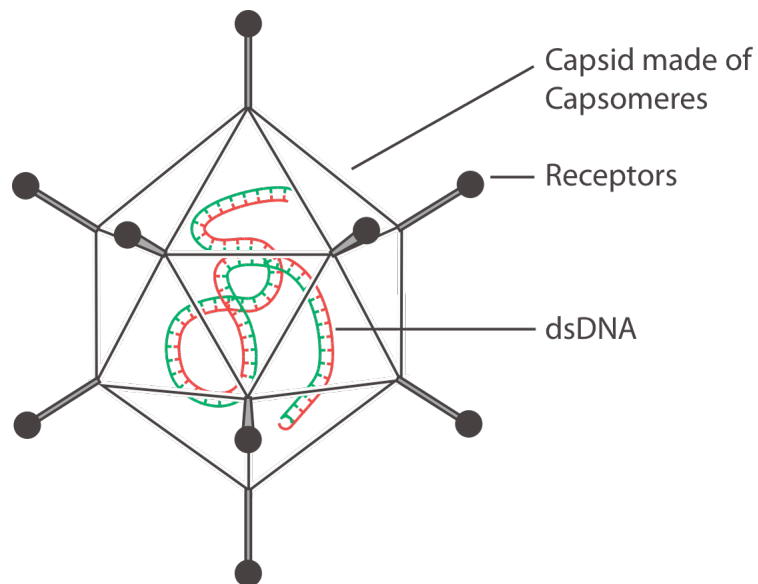
a. Structure continued

b. Taxonomy

c. Host Range

B. Adenovirus

i. Structure



a. Structure continued

b. Taxonomy

c. Host Range

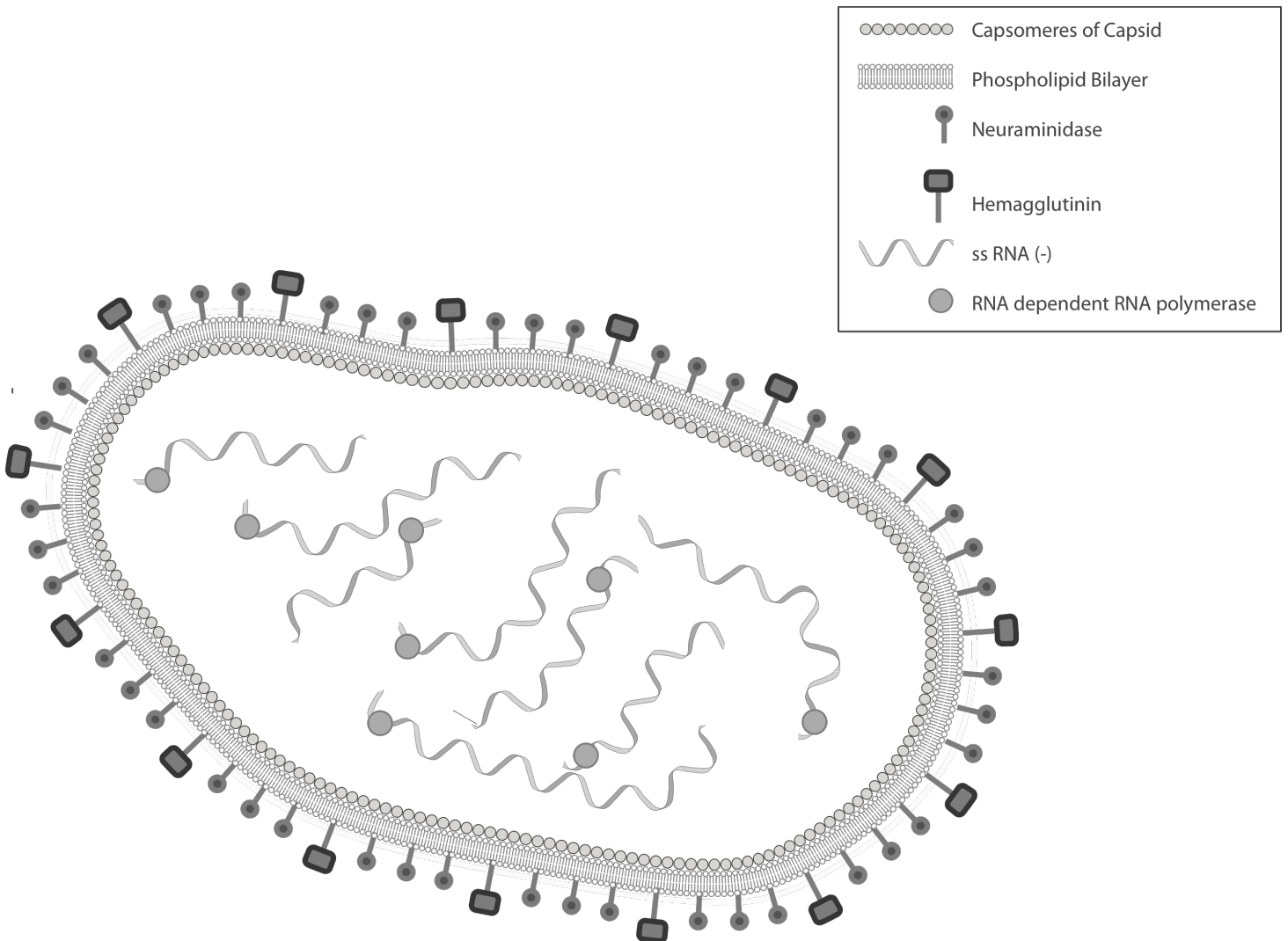
d. Defense Issues

2. Lower Respiratory System Viral Agents (Pages 558 - 562)

A. Influenza Viruses (pp. 699 - 701)

i. Introduction

- a. ssRNA (-) viruses
- b. Segmented genome - 8 pieces.
- c. Envelope Spikes
 - Hemagglutinin
 - Neuraminidase



- d. Dissemination
- ii. Diseases
 - a. Pneumonia
 - b. Secondary Infections (by Bacteria)
 - *Staphylococcus aureus*
 - c. Reye's Syndrome (p. 601)
 - Aspirin
- iii. Strains
 - a. Type A
 - Antigenic Shift
 - * Segmented Genome
 - Antigenic Drift
 - b. Type B
 - Antigenic Drift
 - c. Type C
- iv. Vaccines
- v. Chemotherapy

B. Respiratory Syncytial Virus (RSV) (Pages 561 - 562)

i. Characteristics

a. Syncytium

ii. Diseases

a. Croup

b. Bronchiolitis

c. Pneumonia