Viruses and Reverse Transcription

Virus: A small genetic entities (DNA or RNA) that are **obligate pathogens**. They are not cells, and contain no ribosomes.

Obligate pathogen: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reverse Transcription: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Viral Life Cycles

Lytic:

Lysogenic:

Lytic Virus Example: Influenza

What nucleic acid? \_\_\_\_\_\_\_\_\_\_\_

What are H and N? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How big? \_\_\_\_\_\_\_\_\_\_\_

Transmission method: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6 Steps to Lytic Infection Cycle



2.

3.

4.

5.

6.

Lysogenic Virus (aka Retrovirus) Example: HIV

HIV is Small: \_\_\_ genes, \_\_\_\_\_ proteins

Geographic distribution: global, concentrated in \_\_\_\_\_\_\_\_\_\_\_\_

High-Risk behaviors: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ethnic Imbalance: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nucleic acid: \_\_\_\_\_\_\_

Retrovirus: a type of virus that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Consequence of Retroviral Action: 1. Difficult to cure 2. Long onset time.

Steps in Lysogenic Infection Cycle

1.

2.

3.

4.

5.

6.

7.