Adopt-a-Pathogen Program

1. Pathogen Name: HIV (Human Immunodeficiency Virus)

Disease Caused: AIDS (Acquired Immune Deficiency Syndrome)

1. Morphology:

* Shape: HIV is a ‘roughly’ spherical virus
* Size: HIV is typically around 100 nanometers in diameter.
* Structure: Enveloped virus with a lipid bilayer, glycoprotein spikes, and an inner conical capsid containing RNA and reverse transcriptase.

1. Taxonomic Information:

HIV is in the family Retroviridae, with genus Lentivirus, and species (HIV-1) and (HIV-2)

Some of its relatives that are also Lentiviruses, include, but are not limited to Simian Immunodeficiency Virus (SIV) and Feline Immunodeficiency Virus (FIV), which cause disease in primates and felines respectively.

1. Information on the Disease:
2. How is it detected/diagnosed: AIDS is typically diagnosed via blood tests.