



Influenza vs COVID-19

Influenza

Pathogen:

- Family: Orthomyxoviridae
- Types: A, B, C

Epidemiology:

- 98% Mild, 18% Severe, 0.2% Critical
- 0.1% Fatality Rate
- $R_0 = 1.3$ New Cases From 1 Case

Transmission

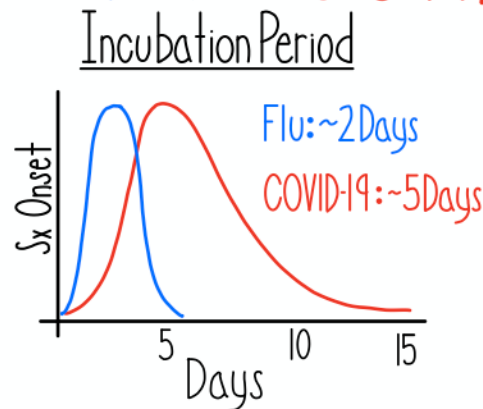
- Contact
- Droplet
- Aerosol (Maybe?)

Dx:

- PCR: Specific + Sensitive
- Antigen Test: Specific Not Sensitive

Tx:

- Oseltamivir, Zanamivir, Baloxavir
- Vaccine



Clinical Manifestations

Influenza

- Fever
- Malaise, Myalgias
- Cough, Sore Throat
- Nasal Congestion
- GI Sx: Common in Children
- Confusion in Elderly
- Imaging In Flu PNA:
 - Subpleural Consolidations

COVID-19

- Fever (75%; Only 50% on Admission)
- Cough (45-80%), SOB (20-50%)
- URI Sx (<15%) Myalgias (10-50%)
- GI Sx: Variable Prevalence
- Lymphopenia Common
- ↑AST/ALT, LDH, CRP
- Imaging: CT Chest ↑Sensitivity
 - Patchy Consolidations

COVID-19

Pathogen:

- Family: Betacoronavirus
- SARS-CoV-2

Epidemiology:

- 80% Mild, 15% Severe, 5% Critical
- 0.5-1.5% CFR (Evolving)
- $R_0 = 2-3$ New Cases From 1 Case

Transmission

- Contact
- Droplet
- Aerosol

Dx:

- PCR:
 - COVID IS w/ More Detail

Tx:

- Dexamethasone
- Remdesivir