

# Overview

## VIROLOGY

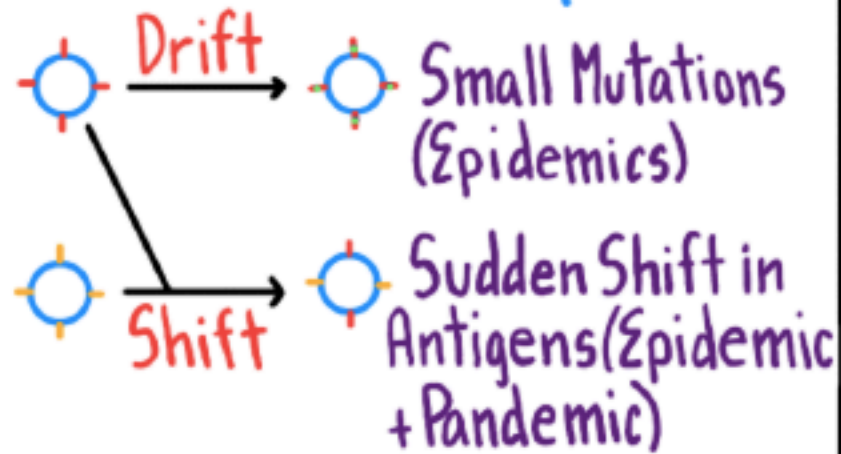
Family = Orthomyxoviridae  
Types: A, B, C (Mild Dz)

## TRANSMISSION

Droplet Aerosol Contact  
R-Naught = 1.3 (# that 1 case infects)

## Epidemiology

### ANTIGENIC SHIFT & DRIFT



### DZ BURDEN\*

290-650K Deaths  
3-5 Million Severe Cases  
Mortality Rate ~0.1%

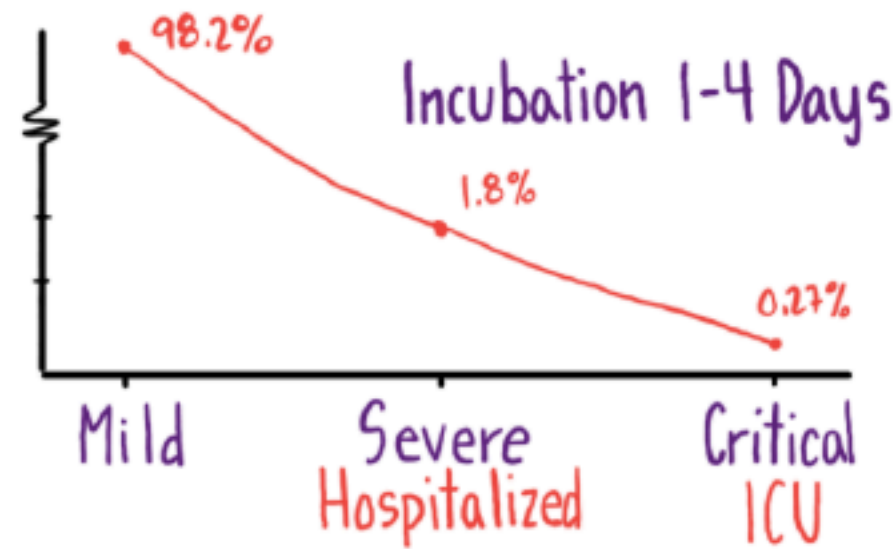
\*Annual, Global Data

# INFLUENZA

## Clinical Manifestations

### HIGH RISK

Extremes of age  
Chronic Health Problems  
Pregnant Women



### SYSTEMIC

Fever  
Myalgias  
Headache  
Malaise

### RESPIRATORY

Non-productive Cough  
Nasal Discharge  
Sore Throat

### OTHER

GI Sx's (more common in children)  
Confusion

## Complications

### RESPIRATORY

Primary Influenza  
Pneumonia  
Secondary Bacterial  
Pneumonia (S. pneumo,  
S. aureus, H. influenza)  
Post Influenza Aspergillosis

### CARDIAC

Myocarditis  
Pericarditis  
Acute CV Events  
(MI's, ADHF)

### OTHER

Myositis/Rhabdo  
Encephalitis  
Transverse Myelitis

# Dx

## HOW TO TEST

PCR (preferred)  
Sensitivity ~100%

Antigen  
Sensitivity ~60-90%

# Tx

## VACCINATION

Inactivated (Preferred)  
Live Attenuated

## ANTIVIRALS

Neuraminidase  
Inhibitors (e.g., Oseltamivir,  
Peramivir, Zanamivir)  
Shortens illness by ~1 day

Baloxivir

