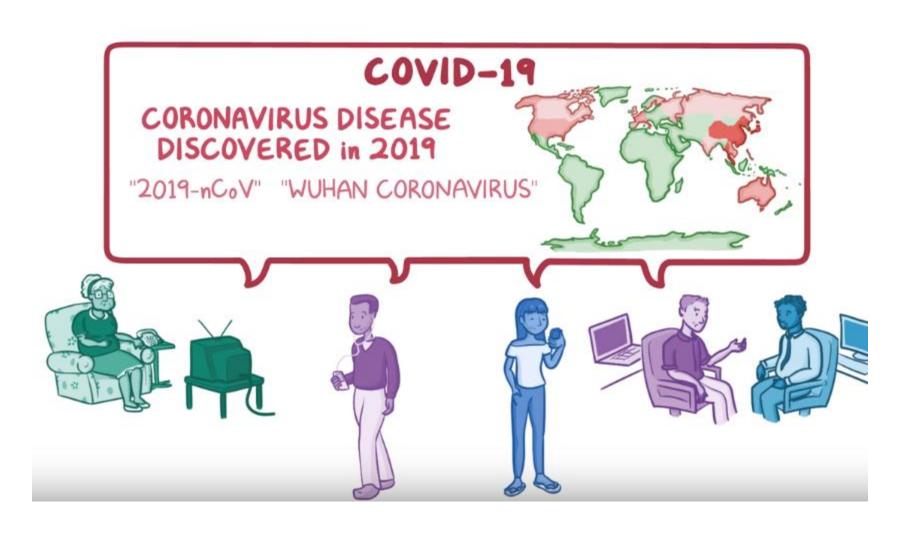
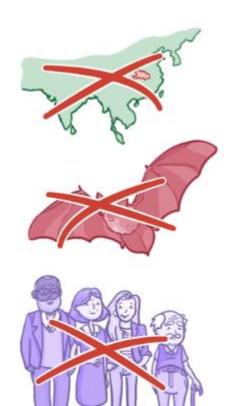
# Coronavirus 2019

Overview





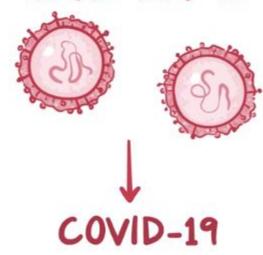
# COVID-19



WORLD HEALTH ORGANIZATION

## SARS-COV-2

# SARS CORONAVIRUS



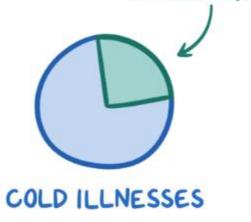


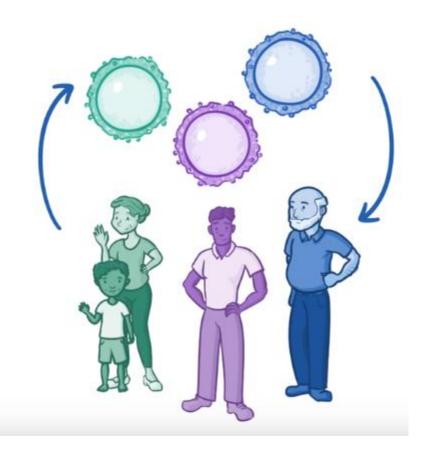


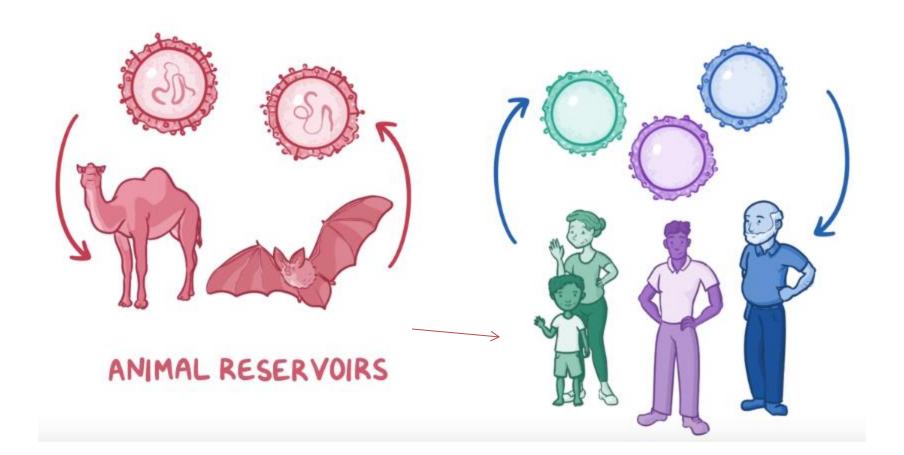
SEVERE ACUTE RESPIRATORY SYNDROME (2002)

## \* TYPICALLY BENIGN

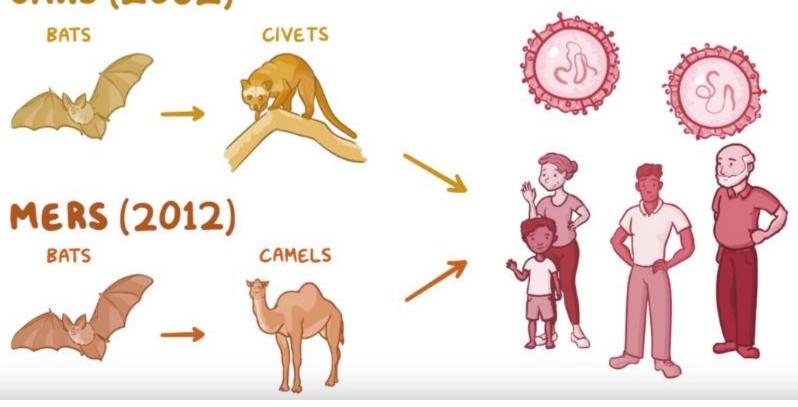
CORONAVIRUSES

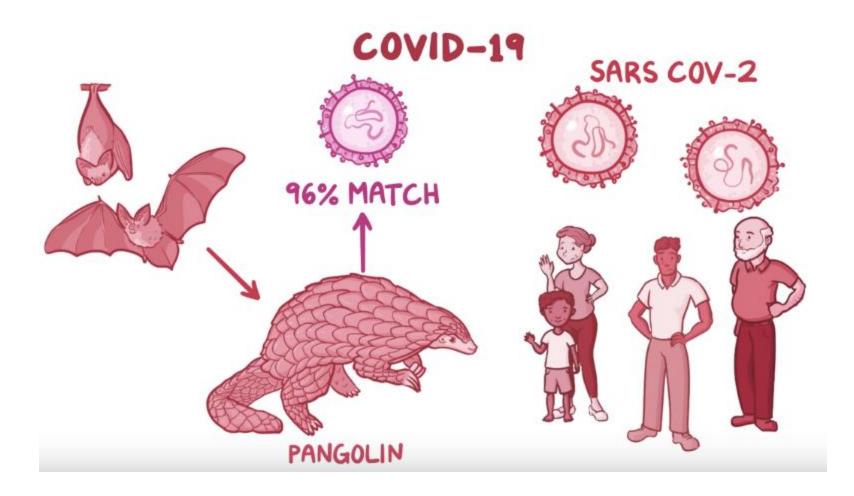


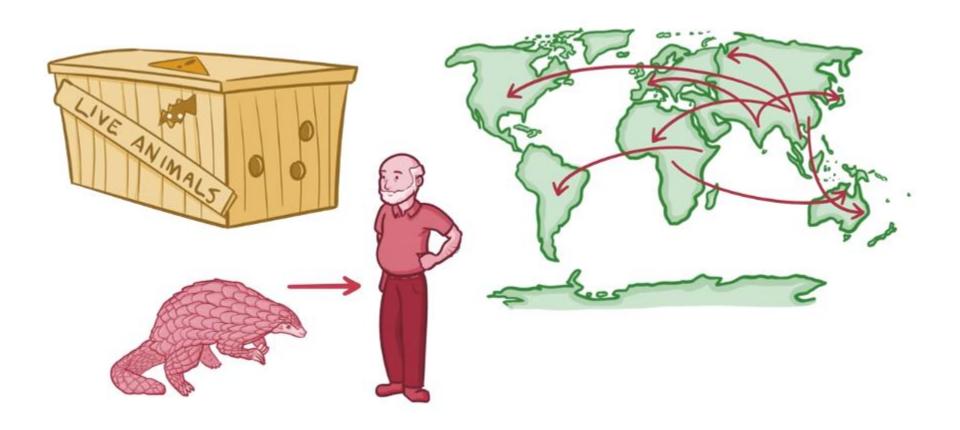




# SARS (2002)







AS OF FEB 11, 2020...



COVID-19

**SARS** (2002)

MERS (2012)

**EBOLA** (2014)

43,103 CASES

**\*\*\***\*\*\*\*\*\*

8,098 CASES

2,494 CASES

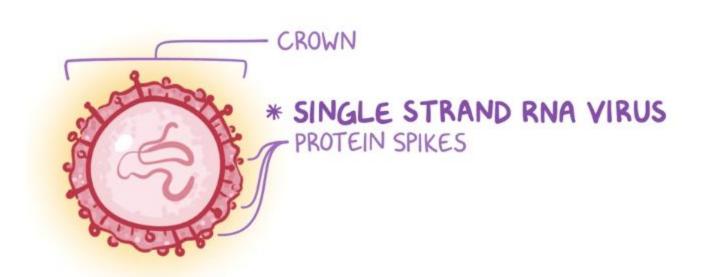


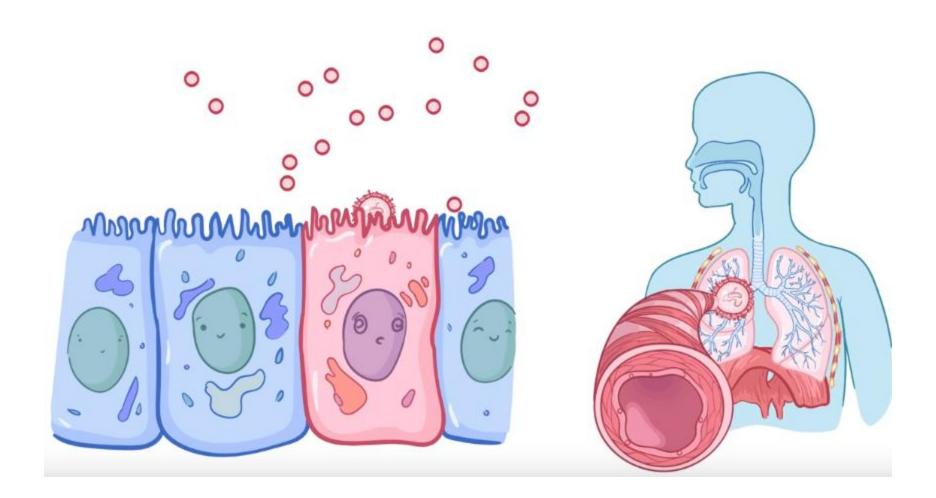
774 DEATHS (9.6%) 858 DEATHS(34%) 28,639 CASES



11,316 DEATHS(40%)

1,018 DEATHS (2.4%)





### 1) MILD

# SOME DO NOT DEVELOP SYMPTOMS





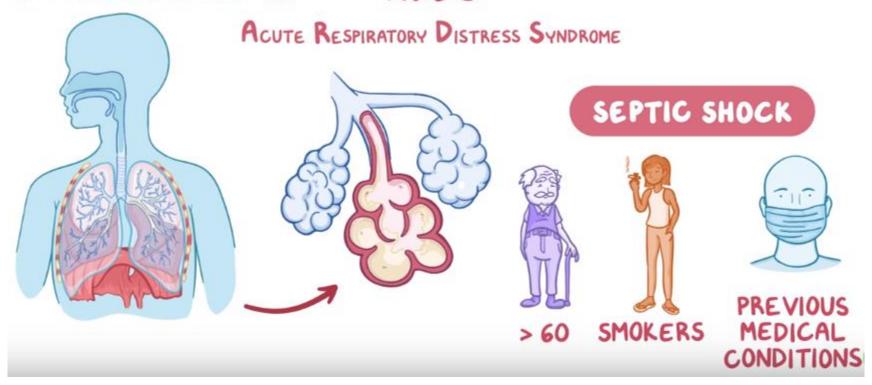
#### 2) ILLNESS

#### SYMPTOMS

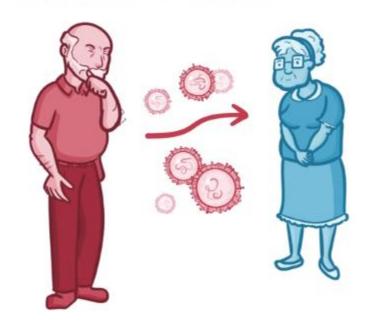
- ~ FEVER
- ~ COUGH
- ~ SHORTNESS of BREATH
- ~ PNEUMONIA

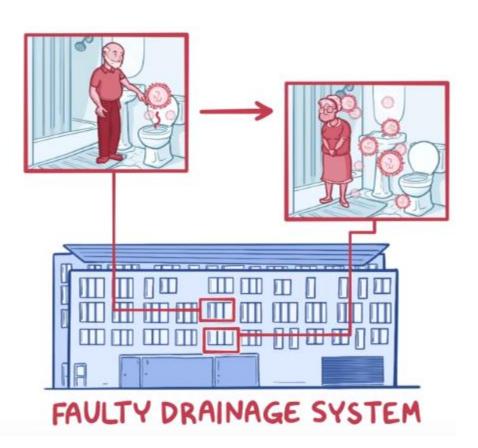
#### 3) PNEUMONIA

#### SEVERE LUNG DAMAGE - ARDS



#### COUGH or SNEEZE





#### SYMPTOMS: AVG. 5 DAYS LATER

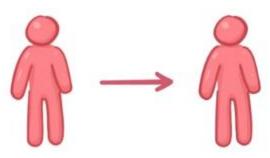




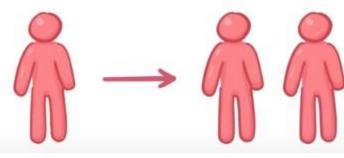


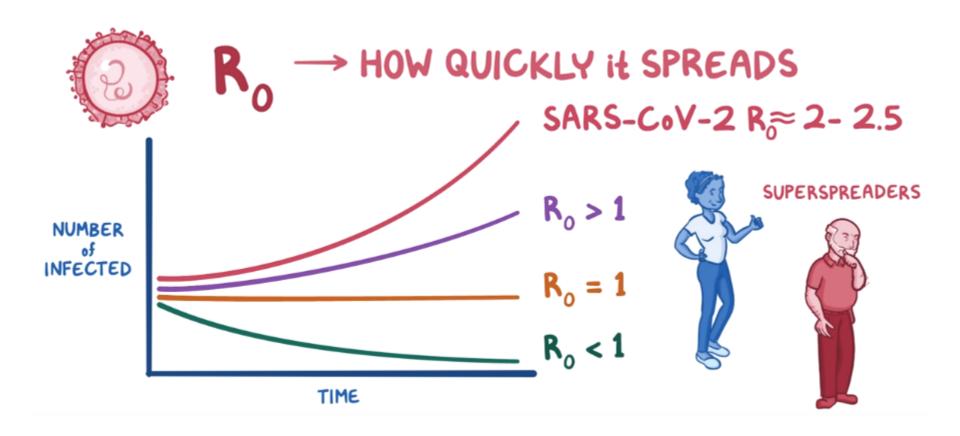
# RO -- HOW QUICKLY IL SPREADS

$$R_o = 1$$



$$R_0 = 2$$





#### SUPERSPREADERS



# REAL-TIME POLYMERASE CHAIN REACTION rt-PCR



- SPUTUM
- SWABS or ASPIRATES
- LAVAGE
- SERUM

#### TREATMENT



# SUPPORTIVE CARE

- ~ PROVIDING FLUIDS
- ~ VENTILATORY SUPPORT
  - CHLOROQUINE
  - RITONAVIR
  - REMDESIVIR

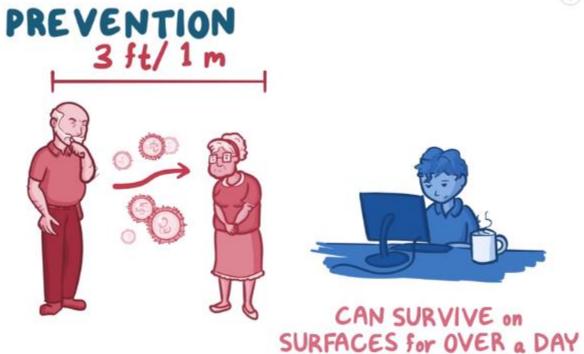
LARGE-SCALE CLINICAL TRIALS

# PREVENTION



NO VACCINES AVAILABLE at the MOMENT





## PREVENTION







- \* AVOID TRAVEL to OUTBREAK AREAS
- \* STAY AWAY from CROWDS
- \* STAY > 6 ft or 2 m AWAY from ANYONE w/ SYMPTOMS

# PREVENTION

\* HAND WASHING







SURGICAL MASK
NOT
RECOMMENDED

\* AVOID TOUCHING EYES, NOSE, & MOUTH



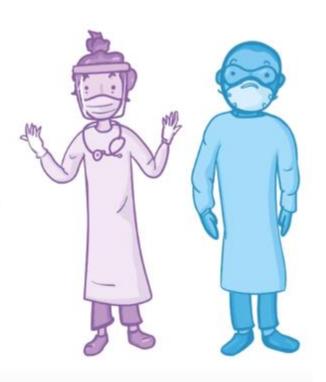
#### DROPLET & CONTACT PRECAUTIONS

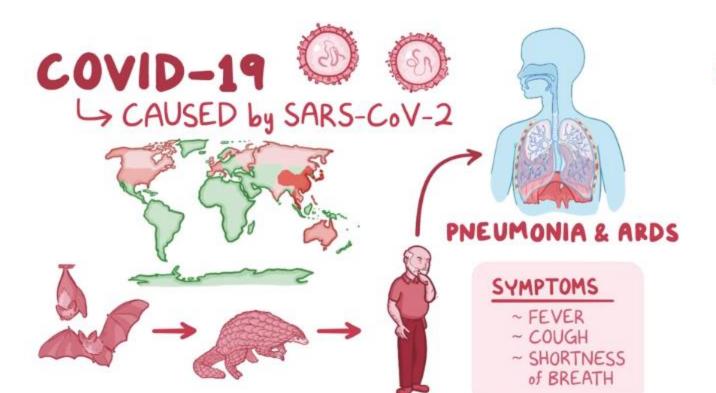
- ~ SURGICAL MASK
- ~ GLOVES
- ~ LONG-SLEEVED GOWNS
- ~ EYE PROTECTION

#### PROCEDURES that PRODUCE AEROSOL

~ N95 RESPIRATOR







#### SUPPORTIVE CARE





COVID-19

PREVENTION

\* HAND WASHING



- \* AVOID TRAVEL to OUTBREAK AREAS
- \* STAY AWAY from CROWDS
- \* AVOID TOUCHING T-ZONE
- \* USING PROTECTIVE EQUIPMENT



