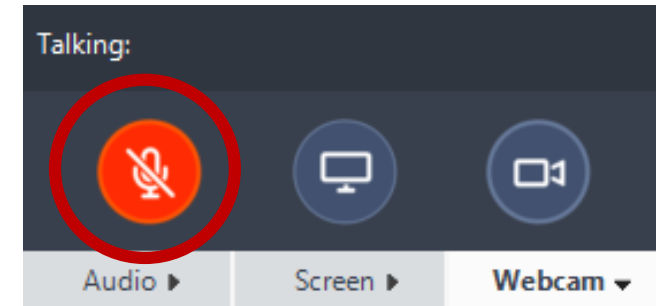


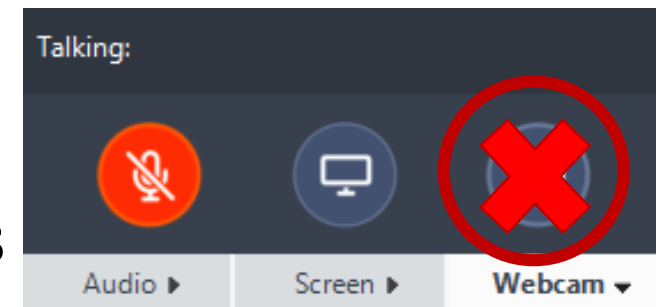
# Infection Control in the Office in the Era of Covid-19

**Ben Kruskal, MD**  
NEQCA Medical Director

**Please Mute**



**No Webcams**



# Agenda

- State Phase 1 Reopening
- Hand hygiene
- Transmission-based precautions
  - PPE (Personal Protective Equipment)
  - Factors affecting transmission
- Cleaning, disinfection, sterilization

# State Phase 1 Reopening

- Requirements apply to ALL health care providers which are not hospitals or community health centers (incl. individual practices), even those who have continued to see patients straight through
- Delivering as much care as possible via telehealth
  - State gives suggested list of things possibly requiring in-person visits, but there is latitude for clinical judgement
- Must have written policies in place and named senior level compliance officer
  - PPE and essential supplies
  - Workforce Safety
  - Patient Safety
  - Infection Control
- Written attestation to the above by the compliance officer displayed in the practice and available to DPH if requested

# Hand Hygiene: soap and water vs hand sanitizer

- Generally equally good if done well
- Easier/faster to do hand sanitizer well
- HOWEVER, hand sanitizer does not clean, only disinfects
  - Disinfection doesn't work well on dirty things
- Soap and water cleans AND disinfects
- Two common diarrhea germs for which soap and water is better
  - Norovirus
  - C. diff



醫院管理局  
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# 潔手技巧

Hand Hygiene Technique

# 搓手20秒

Rub hands for 20 seconds



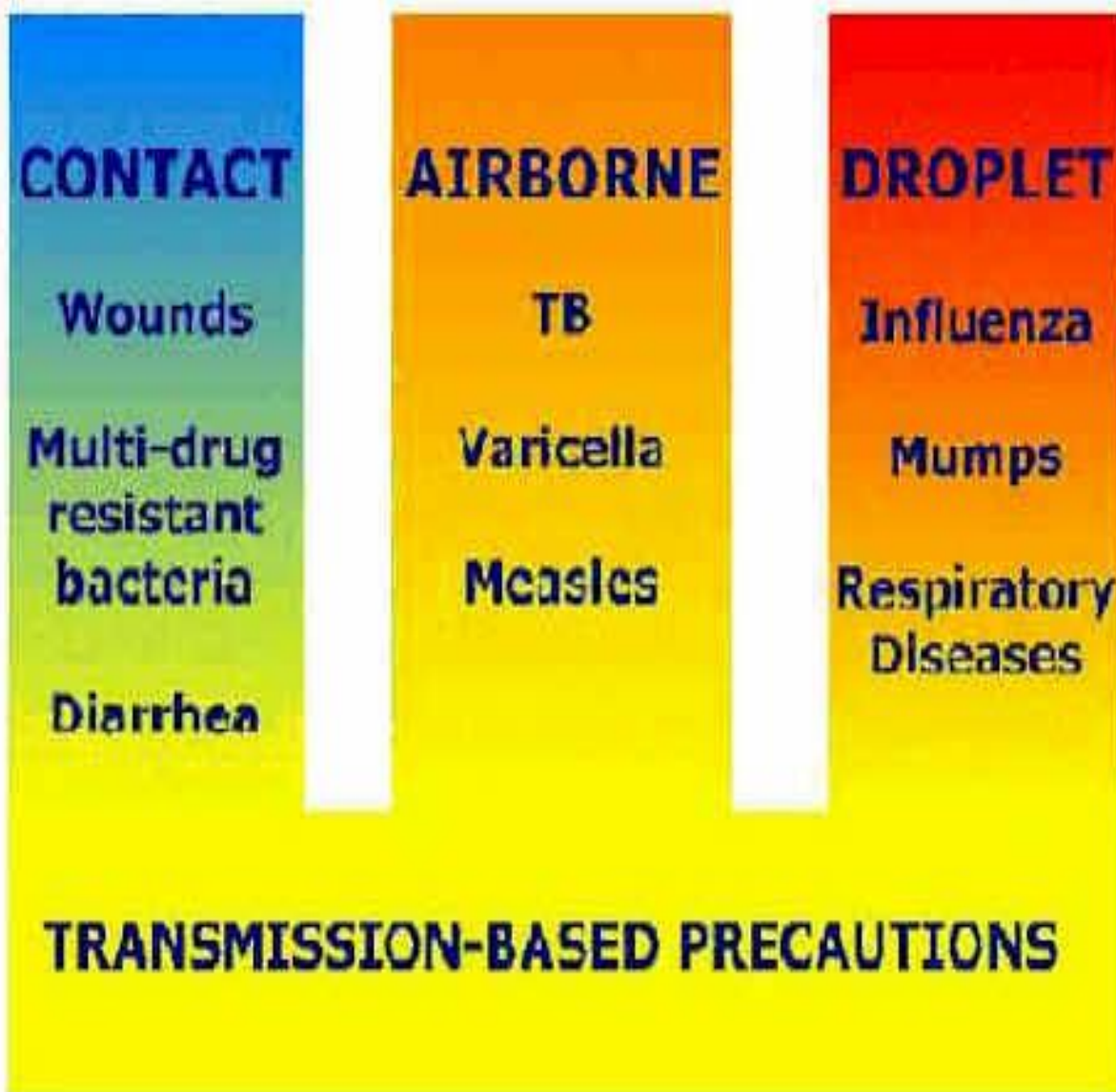
衛生防護中心  
Centre for Health Protection



衛生防護中心網站  
Centre for Health Protection Website  
[www.chp.gov.hk](http://www.chp.gov.hk)  
政府物流服務署印

衛生署  
Department of Health





**STANDARD PRECAUTIONS**

Blood, all body fluids, secretions, excretions, nonintact skin, mucous membranes

Since patients can transmit HIV and other blood-borne pathogens without anyone being aware, ALL patients are treated with appropriate precautions

# Transmission Based Precautions

## Contact Precautions

- Hand Hygiene
- Gown
- Gloves

## Droplet Precautions

- Hand Hygiene
- Mask

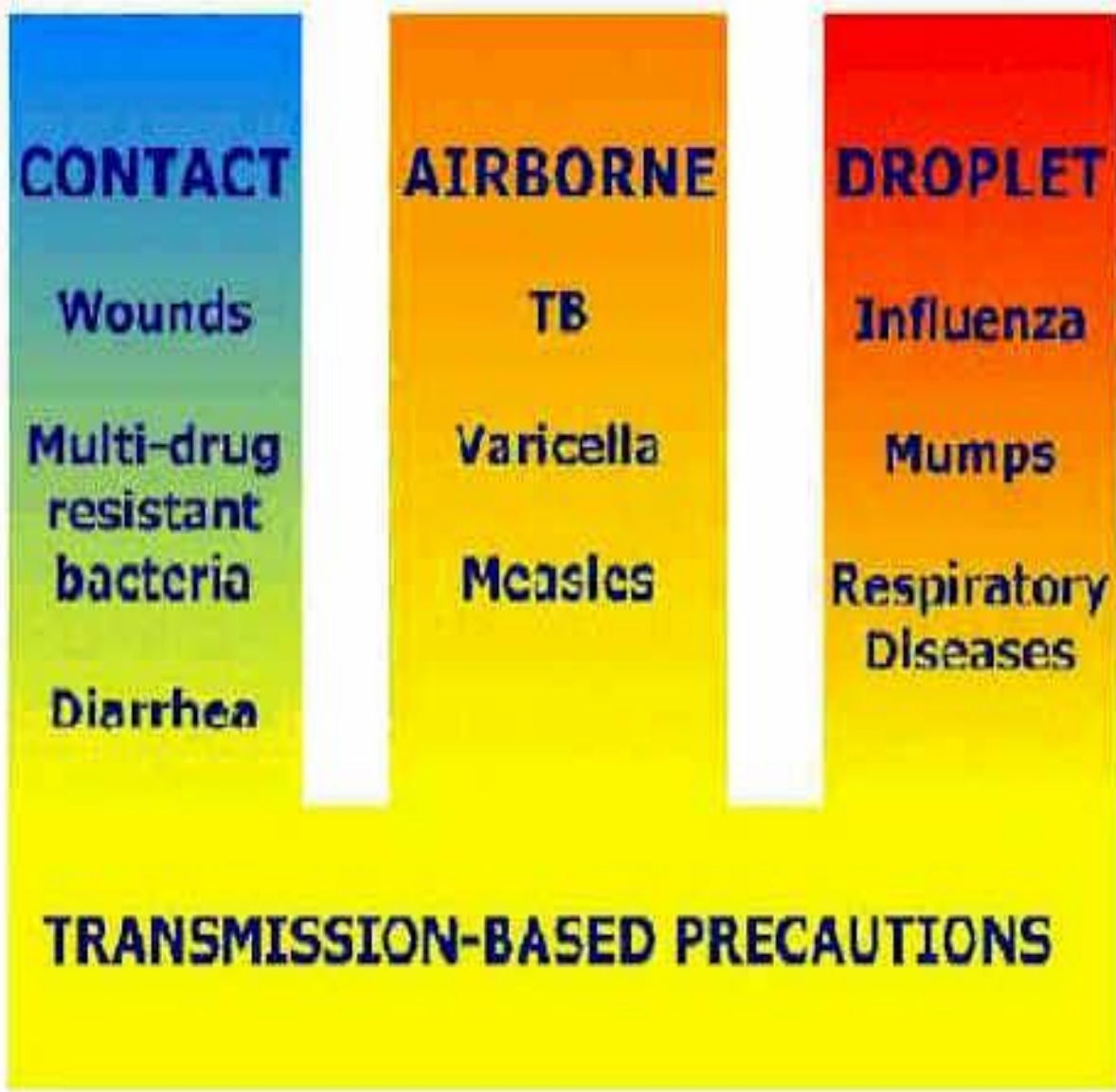
## Airborne Precautions

- Hand Hygiene
- Negative pressure room
- N-95 Respirator mask

fppt.com

<https://www.cdc.gov/hicpac/2007IP/2007isolationPrecautions.html>

Transmission Based Precautions  
By Dr. Rakesh Prasad Sah  
Assistant Professor, Microbiology  
MGM Institute of Health Sciences,  
Navi Mumbai, India



**STANDARD PRECAUTIONS**

Blood, all body fluids, secretions, excretions, nonintact skin, mucous membranes

**Universal droplet precautions**

Since patients can transmit Covid-19 without anyone being aware, ALL patients are treated with appropriate precautions



# Medical Masks

- Simple facemask (Surgical mask, procedure mask)
  - Highly effective against droplet spread



- N95 respirator
  - Highly effective against airborne (droplet nuclei) spread
  - Requires one-time fitting/fit-testing/training

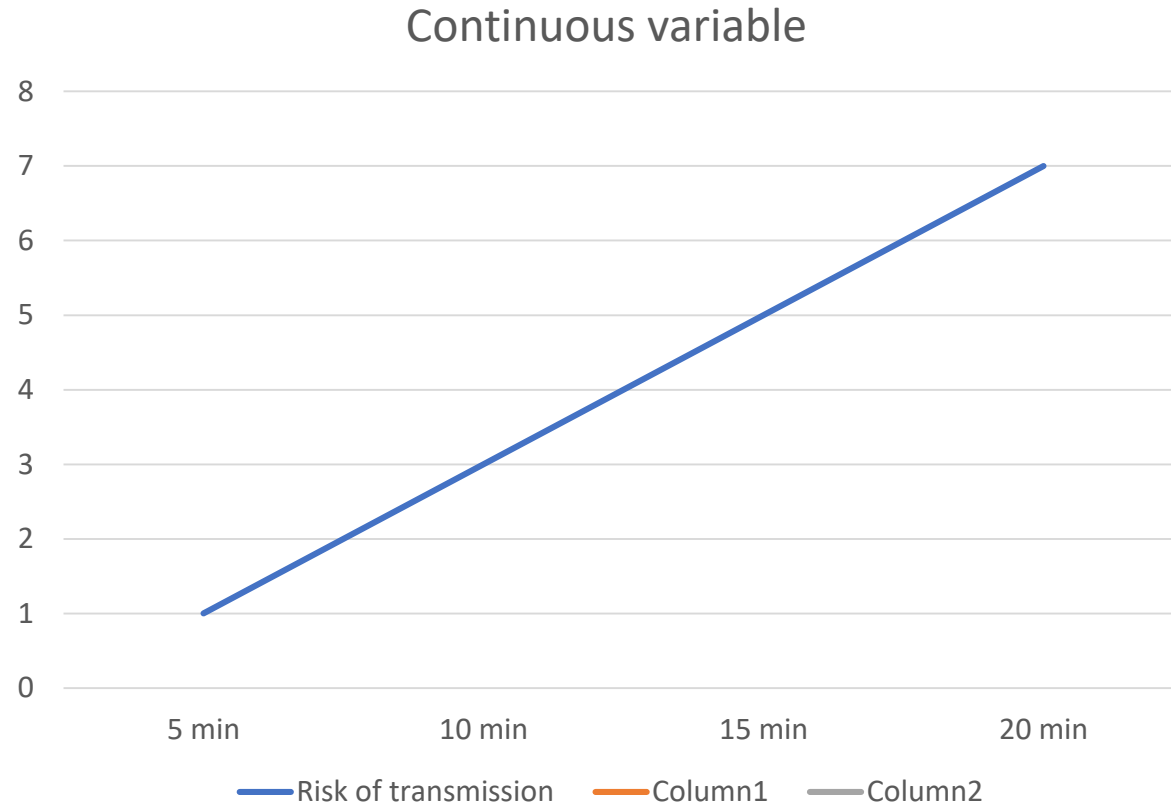
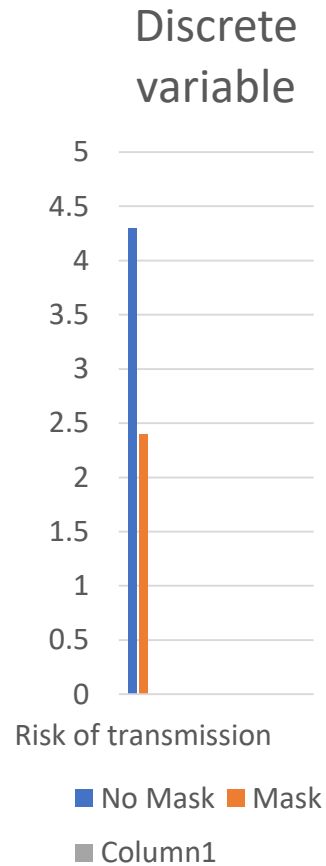
# Droplet precautions

- Surgical mask
- Gloves
- Gown only needed for splash/splatter/direct torso-to-torso contact
- Enhanced droplet protection for splash/splatter: + Eye protection

# Factors affecting likelihood face to face transmission

- Discrete variable effects
  - Environment
  - Masking
  - Activity: cough, sneeze>singing>loud talking, laughing> talking
- Continuous variable effects
  - Distance
  - Time

# Discrete vs continuous variables





# Cleaning/disinfection/sterilization

- Is contact a major mechanism of transmission?
  - Varies among different respiratory viruses: RSV>influenza
  - Not clear how big a role it plays for SARS-CoV-2/Covid-19
- Cleaning = removing stuff
- Disinfection = killing some or most germs
- Sterilization = killing all germs
- Disinfection & sterilization don't work well on dirty surfaces

# Disinfection and sterilization

- Sterilization: most commonly by wet (steam) or dry heat
- Disinfectants have a variety of active ingredients
  - Alcohol (isopropanol or ethanol)
  - Quats (e.g. benzalkonium, Lysol)
  - Hydrogen peroxide
  - Bleach (sodium hypochlorite)

# Disinfection and SARS-CoV-2/Covid-19

- Very sensitive
  - Killed by soaps/detergents, most cleansing agents
  - Killed by heat
  - Killed by any common disinfectant
- EPA has a list of >40 products effective against this virus

# Questions?

## To Ask A Question

- Please use the “chat” feature to submit your question
- A moderator will then pose your question(s) to the presenters

