

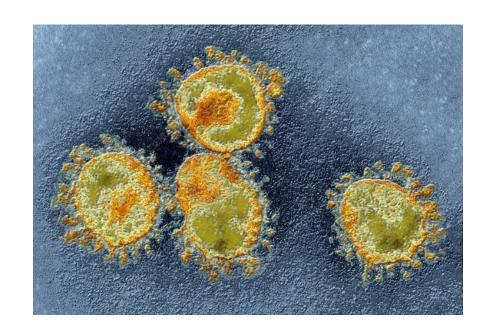
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### **Human Coronavirus Types**



### Common human coronaviruses (colds).

- 1. 229E (alpha coronavirus)
- 2. NL63 (alpha coronavirus)
- 3. OC43 (beta coronavirus)
- 4. HKU1 (beta coronavirus)



#### Other human coronaviruses (the bad ones):

- 5. MERS-CoV (Middle East Respiratory Syndrome)
  - 2494 cases/858 deaths mainly Arabian peninsula
  - 34% case fatality rate
  - Exported cases caused outbreak in S Korea
- 6. SARS-CoV (Severe Acute Respiratory Syndrome)
  - 8098 cases/774 deaths
  - 9.5% case fatality rate
  - No cases since 2004
- 7. SARS-CoV-2 (causes COVID-19)
  - ~2% case fatality rate to date but still being determined

### Get your FLU Vaccine!!

### CDC estimates that so far for just this US flu season:

- At least 29 million flu illnesses
- 280,000 hospitalizations
- >16,000 deaths from flu including 105 pediatric deaths
- 5.9% of those sick enough to hospitalize die
- Typical years ~1 in 10000 of all flu cases die – CFR 0.01%



#### **COVID 19 (March 5, 2020)**

- Globally 953,33 confirmed-(2241 new)
- China 80 565 confirmed-143 new
  - 3015 deaths-31 new
- Outside of China 14 768 confirmed
  -2098 new
  - 85 Countries/territories/areas (5 new)
  - 267 deaths (53 new)

https://www.who.int/docs/default-source/coronaviruse/situation-reports/2 0200225-sitrep-36-covid-19.pdf

### What about children and COVID 19?



## Q: Are children more susceptible to COVID-19 compared with the general population and how can infection be prevented?

- No, there is no evidence that children are more susceptible.
  - Most confirmed cases of COVID-19 reported from China have occurred in adults.
  - Infections in children have been reported, including in very young children. From limited information published from past outbreaks of SARS-CoV and MERS-CoV outbreaks, infection among children was relatively uncommon.
- Children should engage in usual preventive actions to avoid infection.
  - Cleaning hands often using soap and water or alcohol-based hand sanitizer
  - Avoiding people who are sick
  - Staying up to date on vaccinations, including influenza vaccine

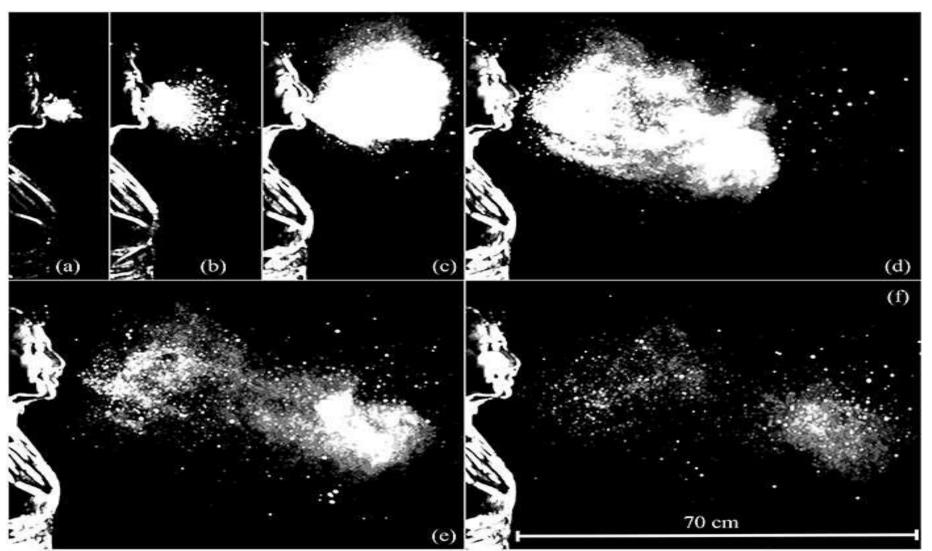
### What about children and COVID 19? WEDICAL SERVICES



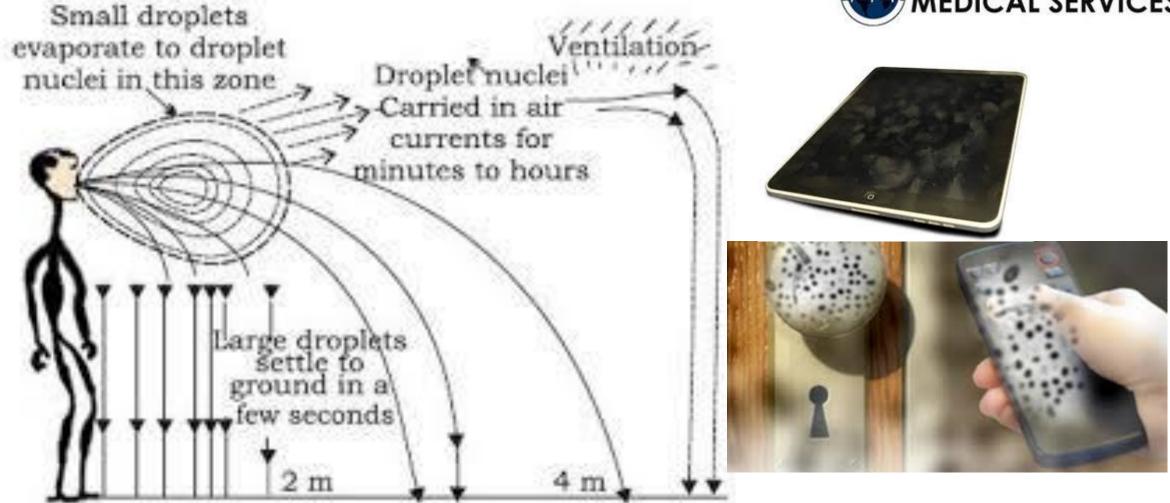
#### Q: Does the clinical presentation of COVID-19 differ in children compared with adults?

- Limited reports of children with COVID-19 in China have described cold-like symptoms, such as fever, runny nose, and cough. Gastrointestinal symptoms (vomiting and diarrhea) have been reported in at least one child with COVID-19.
- Early studies suggest that children with confirmed COVID-19 have generally presented with mild symptoms
  - Severe complications (e.g., acute respiratory distress syndrome, septic shock) appear uncommon.





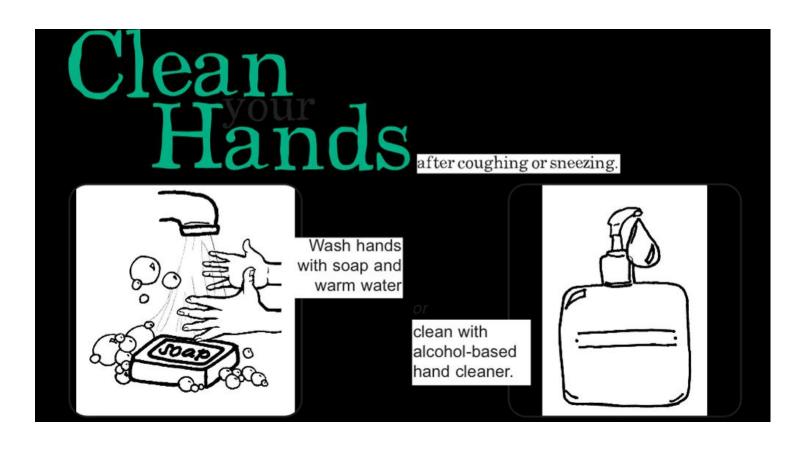
















- Send domestic staff home
- Keep children at home

#### • Have at home:

- Hand Sanitizers
- Thermometers for self-monitoring
- OTC cold and flu medications as appropriate
- A space where you can self quarantine
  - Food for 14 days
- Disinfect workspaces and common areas



### Should I wear a mask?





#### **Surgical Masks**

- Meant to protect the environment from the wearer (Surgeon's breath on the patient)
- Does a good job of trapping large droplets...not so good with small droplets
- Gets wet with use and loses integrity
- People touch the masks which defeats the purpose



#### N-95

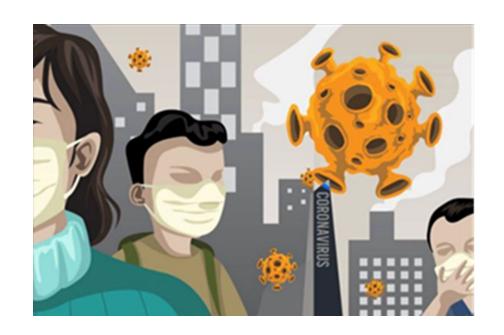
- Filters 95% of very small (0.3 micron) particles
- Fits tighter to the face (fit testing required)
  - Meant to help protect the wearer from inhaling infectious droplets in the environment
- Long term wear is difficult
- Despite these masks (and other protective equipment) over 500 health care workers in Wuhan have reportedly contracted COVID-19

### What about masks?

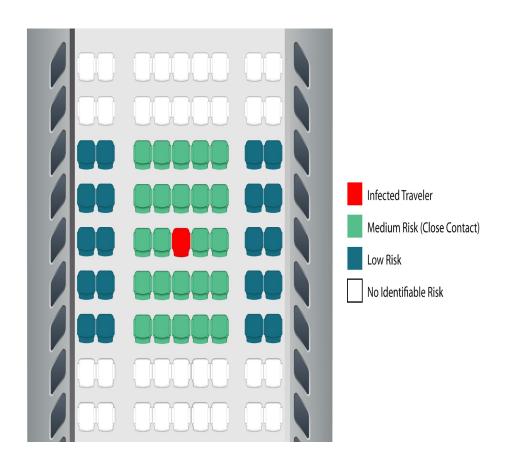


•BOTTOM LINE: CDC does not recommend the routine use of masks in the community.

- Prevent the spread illness by:
  - Hand washing/use hand sanitizers
  - Don't touch your face
  - Cover your cough
  - STAY HOME WHEN SICK!!!!



# Is it safe to travel by plane?





- Despite "conventional wisdom" to the contrary:
- Modern airliners HEPA filter air to level of an operating room.
- ☐ Much of the air that comes through the vents is fresh outdoor air that is heated.
- ☐ Limited transmission of viruses.
  - Open up those air vents and let the filtered air flow over you.



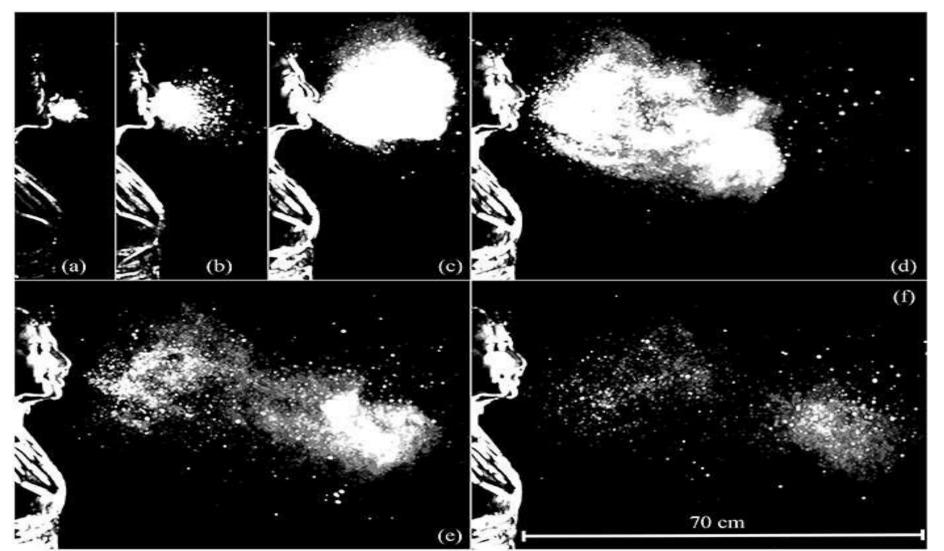
## How should I talk to my kids about COVID 19?



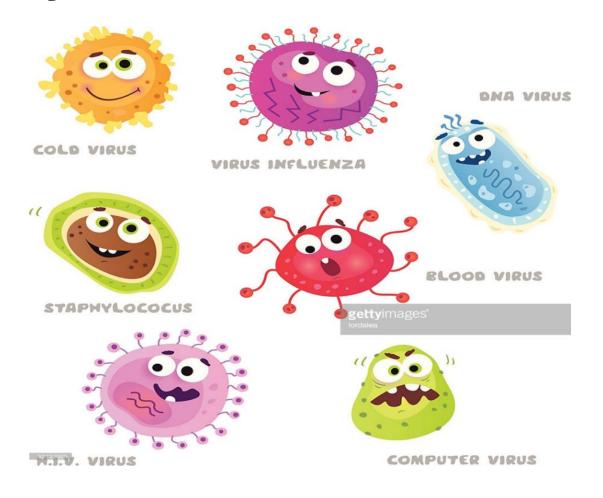
- Be honest but don't overshare
- Meet them where they are at developmentally
- Ask them, "What have you heard?"
- Talk in a calm state; soothing voice
- Discuss prevention-handwashing, elbow coughing, etc.
- Review and model basic hygiene and healthy lifestyle practices!

- Resources
  - National Association of School Psychologists
    - https://www.nasponline.org/resour ces-and-publications/resources-andpodcasts/school-climate-safety-andcrisis/health-crisis-resources/talking -to-children-about-covid-19-(corona virus)-a-parent-resource
  - Brain Pop Jr.
    - https://www.brainpop.com/health/ diseasesinjuriesandconditions/coron avirus/





### Thanks for your attention



**QUESTIONS?**