COVID-19 Update

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Monday August 3rd
Tale of Two Cities

Melbourne (4.9M)
- 136 cases per million
- COVID test positive rate 0.6%
- Initial lock down of neighborhoods
- Now complete lockdown and 8pm-5am curfew

Miami (2.7M)
- 1,007 cases per million
- COVID test positive rate 19%
- Slow to close beaches and bars
- Early July – mask mandate. Now increasing fines
Biweekly change in confirmed COVID-19 cases, Aug 2, 2020

The biweekly growth rate on any given date measures the percentage change in the number of new confirmed cases over the last 14 days relative to the number in the previous 14 days.
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Source: European CDC – Situation Update Worldwide – Last updated 2 August, 10:02 (London time)  
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Schools

- Georgia YMCA Camp
  - 260 cases linked to children and staff
  - Negative COVID test ≤12 days before arriving
  - Indoor and outdoor activities
  - Singing +++
  - Limited use of masks
  - Attack rate 44% (probably higher)
Children COVID Studies

- **Viral load**
  - 10-100x higher in children under 5
  - So while young children do not get sick as often young children can potentially be important drivers of SARS-CoV-2
- **Impact for kindergarten and early school years**
- **Korea study**
  - Adolescents between 10 and 19 years old transmitted the disease just as frequently as adults
Masks & Face Shields

- Protects others 70%
- Protects you 25%
- Good at slowing spread

- Protects others <masks>
- Protects you – eyes, avoid touching face

- Wearing both offers maximum protection
100 People Returning to the Office

- Risk of one person being COVID+ 25-44%
  - Ascertainment bias – assumption that there are more cases in community than those that have been tested
  - $5 \times = 25\%$
  - $10 \times = 44\%$

COVID+ person in the workforce doesn’t mean you will have other cases due to other controls ...................... but it does increase the risk
Miami Comparison

- 25 people in the office
  - 5x = 85% chance
  - 10x = 98% chance
Questions