OVERVIEW:
IMPACT OF SARS-COV-2 (COVID-19)

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HOW ARE WE DOING?

AS OF 9/15/20

Number of daily cases and deaths in the US

Source: COVID Tracking Project

Total cases: 29,155,581
Reported deaths: 926,544

Total cases: 186,887
Reported deaths: 3,111

NORTH CAROLINA

Total cases: 6,537,627
Reported deaths: 194,092
COVID-19: NEW INFORMATION

- Cases high numbers in the 18-45-year age range
- Multiple outbreaks on college/university campuses
- 2% - 6% rate of population infected (CDC): (outlier, NYC = 20%)
- 20-80% percent asymptomatic infections: (depends on study population)
- Airborne (>6 feet) transmission is rare, if it occurs
- Duration of infectiousness:
  - Ambulatory patients, <11 days (5 studies); hospitalized patients, <20 days (2 studies) 1 report of re-infection 142 days after initial infection
- Masks very effective in preventing transmission when worn by infected persons and in preventing acquisition when worn by uninfected persons
During the COVID-19 pandemic, healthcare systems should adjust their standard approaches of delivering healthcare services to reduce the need to provide in-person care to minimize risk to patients and HCP-(CDC) resulting in:

- Family members not allowed at time of birth-early separation from mother if COVID suspected
- Family not allowed at time of death
- Belief unsafe to attend regular appointments
- Routine procedures cancelled/postponed
- Healthcare personnel quarantining from family members

**ALL CARE SETTINGS IMPACTED**

**COVID-19 IMPACT: LONG-TERM CARE**

- Long-term care facilities accounts for 43% of U.S. COVID-19 deaths
- Adjustment of standard approaches of care:
  - Restrict visitors-considered to be resident’s home
  - Resident cohorting
  - Universal source control
  - Use of personal protective equipment
    - Aerosol generating procedures
COVID-19 IMPACT:
OUTPATIENT CARE-PHYSICIANS

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>8%</td>
<td>Practices Closed</td>
</tr>
<tr>
<td>43%</td>
<td>Reduced staff</td>
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<tr>
<td>72%</td>
<td>Reduced income</td>
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Future of tele-medicine:
Not continue unless reimbursement comparable to in-person visit

COVID-19 IMPACT:
HEALTHCARE PERSONNEL

- More than 1,000 front line health care workers have died
  - Approximately 38% nurses
  - Median age 57
  - Disproportionate toll on communities of color and immigrants
- At least 57 (32%) were reported to have had inadequate personal protective equipment (PPE)
- A higher percentage of participants who reported a PPE shortage had detectable SARS-CoV-2 antibodies (9%) than those who did not report a PPE shortage (6%) (p=0.009)
- Fear of spread to patients, co-workers and their families

COVID-19 IMPACT: HEALTHCARE PERSONNEL

- Psychological fallout related to working long hours
- Isolation from family
- Incomparable amount of death
- Debate over route of transmission and most appropriate PPE
- Prolonged uncertainty

NEW NORMAL?
GENERAL PREVENTION RECOMMENDATIONS FOR COVID-19

- Wash hands often with soap and water for at least 20 seconds
- If soap and water are not available, use an alcohol-based hand sanitizer (>60% alcohol)
- Social Distancing
- Universal source control-face covering and eye protection
- Use of PPE