Challenges in the Era of COVID-19

Griffin P. Rodgers, M.D., M.A.C.P.
NIDDK Director

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COVID-19 Deepens Existing Health Disparities

For Native Americans, COVID-19 is ‘the worst of both worlds at the same time’

Homes with a significant number of black and Latino residents have been twice as likely to be hit by the coronavirus as those where the population is overwhelmingly white.

Rural America Could Be the Region Hardest Hit by the COVID-19 Outbreak

Data on race and the coronavirus is too limited to draw sweeping conclusions, experts say, but disparate rates of sickness — and death — have emerged in some places.

Many Who Need Testing For COVID-19 Fail To Get Access

COVID-19 in Prisons and Jails in the United States
Obesity, Diabetes, Health Disparities... and COVID-19

**Obesity**
- >70% of U.S. adults overweight or obese
- > 40% of U.S. adults obese
- Increasing in the young
- Annual medical cost: $147B

**Type 2 Diabetes**
- Approx. 30.3 million U.S. cases (9.4% of population)—90-95% T2D
- Projected to ~50 million by 2050
- Increasing in the young
- Annual total cost: $327B
Obesity, Diabetes, Health Disparities... and COVID-19

Obesity

Obesity Disparities:
47% of Hispanics and 46.8% of NH Black (compared to 37.9% of Whites)

Type 2 Diabetes

Age-adjusted Diagnosed Diabetes:
• 15.1% of AIAN
• 12.1% of NH Black
• 12.1% of Hispanic
• 7.4% of White
Obesity, Diabetes, Health Disparities... and COVID-19
Prevalence of Obesity and Diagnosed Diabetes by County in the United States

2016
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-03-01

March
April
May
June
July
August
September
October
November

_data Source: The Institute for Health Metrics and Evaluation via the US Covid Atlas (covidatlas.org)_
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-03-08

March
April
May
June
July
August
September
October
November

Data Source: 3PointAcres via the US Covid Atlas (usacovidatlas.org)
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-04-05

March
April
May
June
July
August
September
October
November
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-05-03

March
April
May
June
July
August
September
October
November
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-05-17

March
April
May
June
July
August
September
October
November

cases per 100,000 residents (county)

0 250 500 750 1,000+

Data Source: https://covidtracking.com
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-06-21

March
April
May
June
July
August
September
October
November

cases per 100,000 residents (county)
0 250 500 750 1,000+

COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-08-23

March
April
May
June
July
August
September
October
November

Cases per 100,000 residents (county)
0
250
500
750
1,000+

Data Source: WorldAtlas via the US County Atlas (worldatlas.org)
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-08-30

March
April
May
June
July
August
September
October
November

cases per 100,000 residents (county)

0 250 500 750 1,000+
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-09-06

March
April
May
June
July
August
September
October
November

NIH National Institute of Diabetes and Digestive and Kidney Diseases

70 years
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID-19 cases by population, Week of 2020-10-11

March
April
May
June
July
August
September
October
November
COVID-19 Across Counties in the US
COVID-19 Across Counties in the US

COVID Cases by Population, Week of 2020-10-25

March
April
May
June
July
August
September
October
November

NIH National Institute of Diabetes and Digestive and Kidney Diseases

Data Source: "From data in the U.S. County Health Rankings (countyhealthrankings.org)."
COVID-19 Across Counties in the US
Addressing COVID-19 – NIDDK Viewpoint

- Increased Cost & Drop of Revenue
- Health Disparities Research
- Representation & Access
- Safe Accommodations
- Participants’ fear or reluctance
- Inability to collect outcome data and biosamples