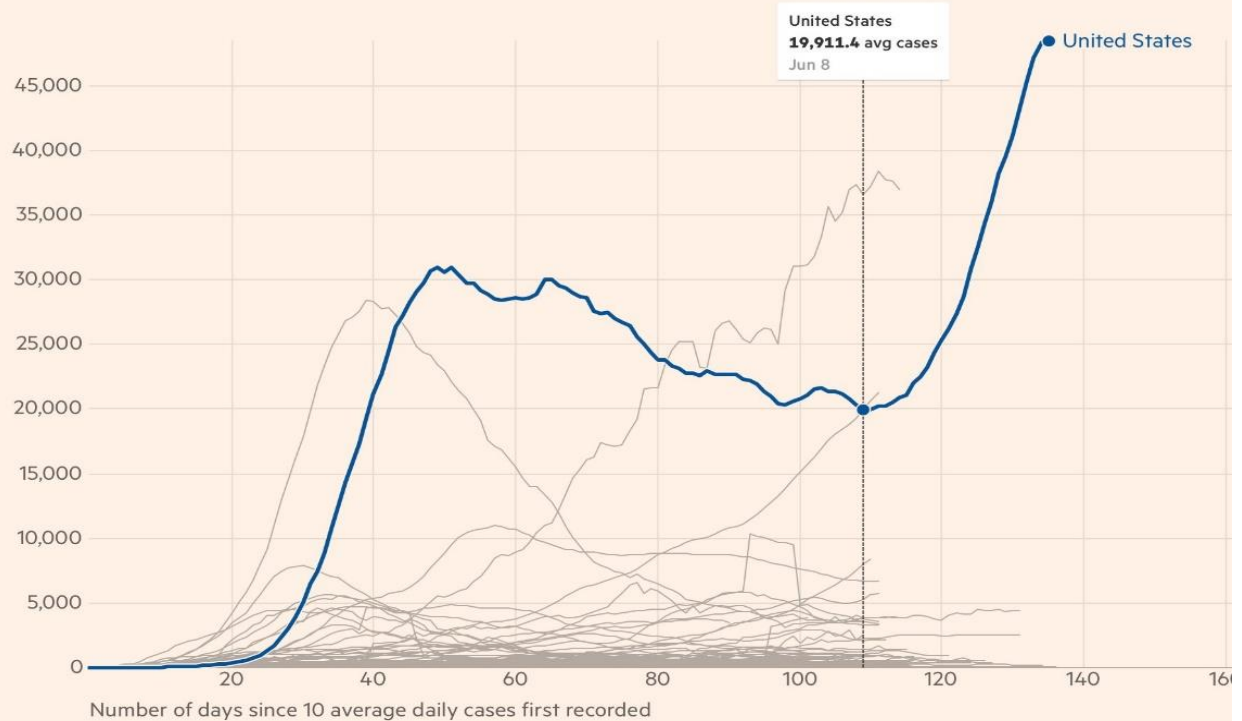


Covid-19 Task Force: Current Status, Terminology, Hope

New confirmed cases of Covid-19 in United States

Seven-day rolling average of new cases, by number of days since 10 average daily cases first recorded



Source: Financial Times analysis of data from the European Centre for Disease Prevention and Control, the Covid Tracking Project, the UK Dept of Health & Social Care and Data updated July 6 2020 11.01am BST. Interactive version: ft.com/covid19

March 2020 =

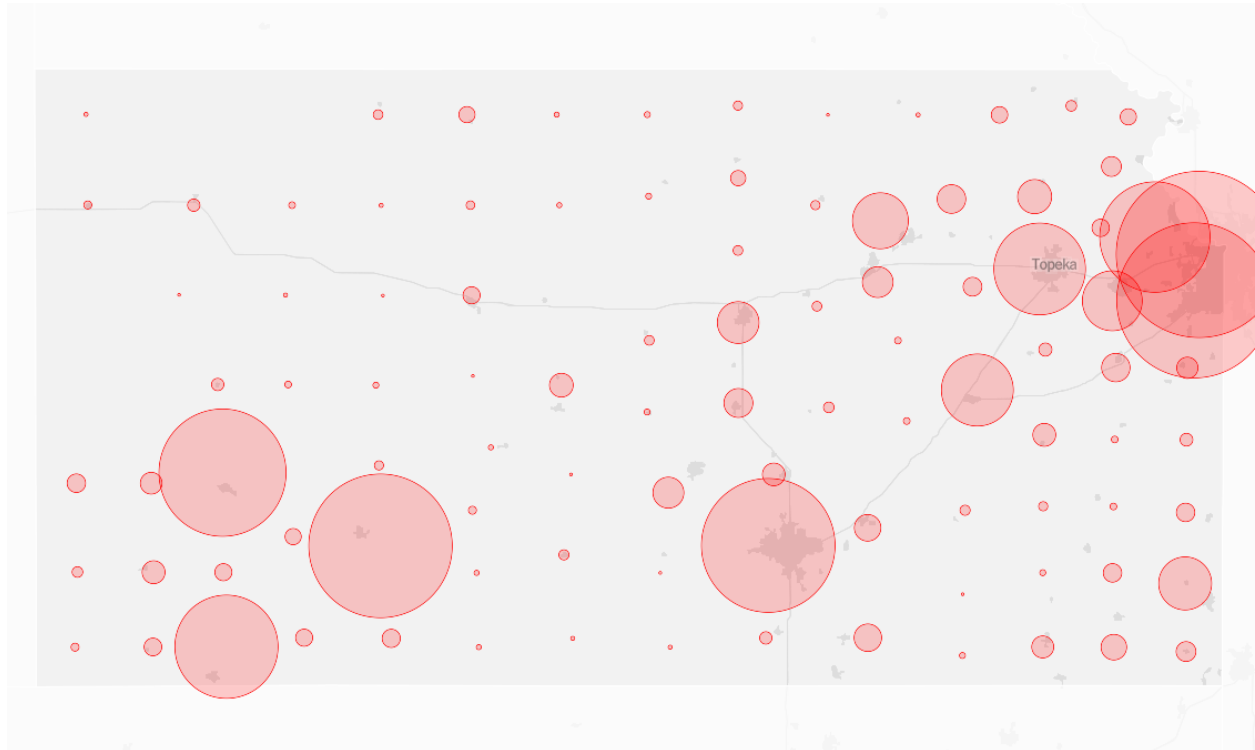
- 34,000 infections/day
- One epicenter = New York City

July 2020:

- 60-70,00 cases/day= high and rising rate of new infection and hospitalization
 - Dr Fauci last week, could reach 100,000 cases/day
 - "We are still knee-deep in the first wave of this... "And I would say, this would not be considered a wave. It was a *surge, or a resurgence of infections superimposed upon a baseline.*"
- = **250% increase in diagnosed cases in 1 month**
- 1/10 infected people diagnosed
 - Means as many as 90% of infected people are undiagnosed!
- Today 4 epicenters
 - = LA Tx, Fla, Az, (Ga?).....Ks increasing

• Kansas Coronavirus Map and Case Count

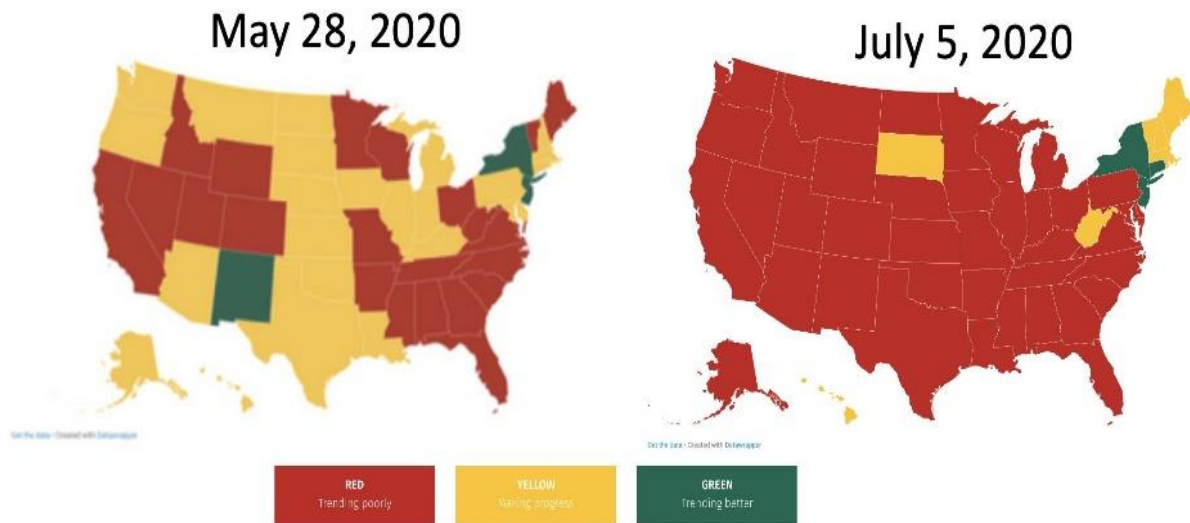
• By The New York Times Updated July 7, 2020, 4:43 A.M. E.T.



There have been at least 17,082 cases of coronavirus in Kansas, according to a New York Times database. As of Tuesday morning, at least 288 people had died.

<https://www.nytimes.com/interactive/2020/us/kansas-coronavirus-cases.html>

Tracking Our COVID-19 Response



Future??

- Healthcare resources/personnel availability?
- Business/economy/unemployment?
- Schools reopening in fall?
- Others

Terminology:

- R = Reproduction ratio
 - R_0 - Pronounced as R "naught"
 - is the normal, ie no infection transmitted
 - Defined as "the expected number of infections caused by a single infectious individual." <https://www.nature.com/articles/d41586-020-02009-w>
 - $R > 1$ = when the infection will be able to start spreading in a population, ie, more than one person infected; definition of epidemic
 - $R > 4$ = 4 people infected from one source
 - $R < 1$ = goal
- Case fatality ratio
 - Deaths/infected case
 - Can be reduced through improved care
- Deaths
 - Total number of deaths
 - Increasing with high and rising new infections

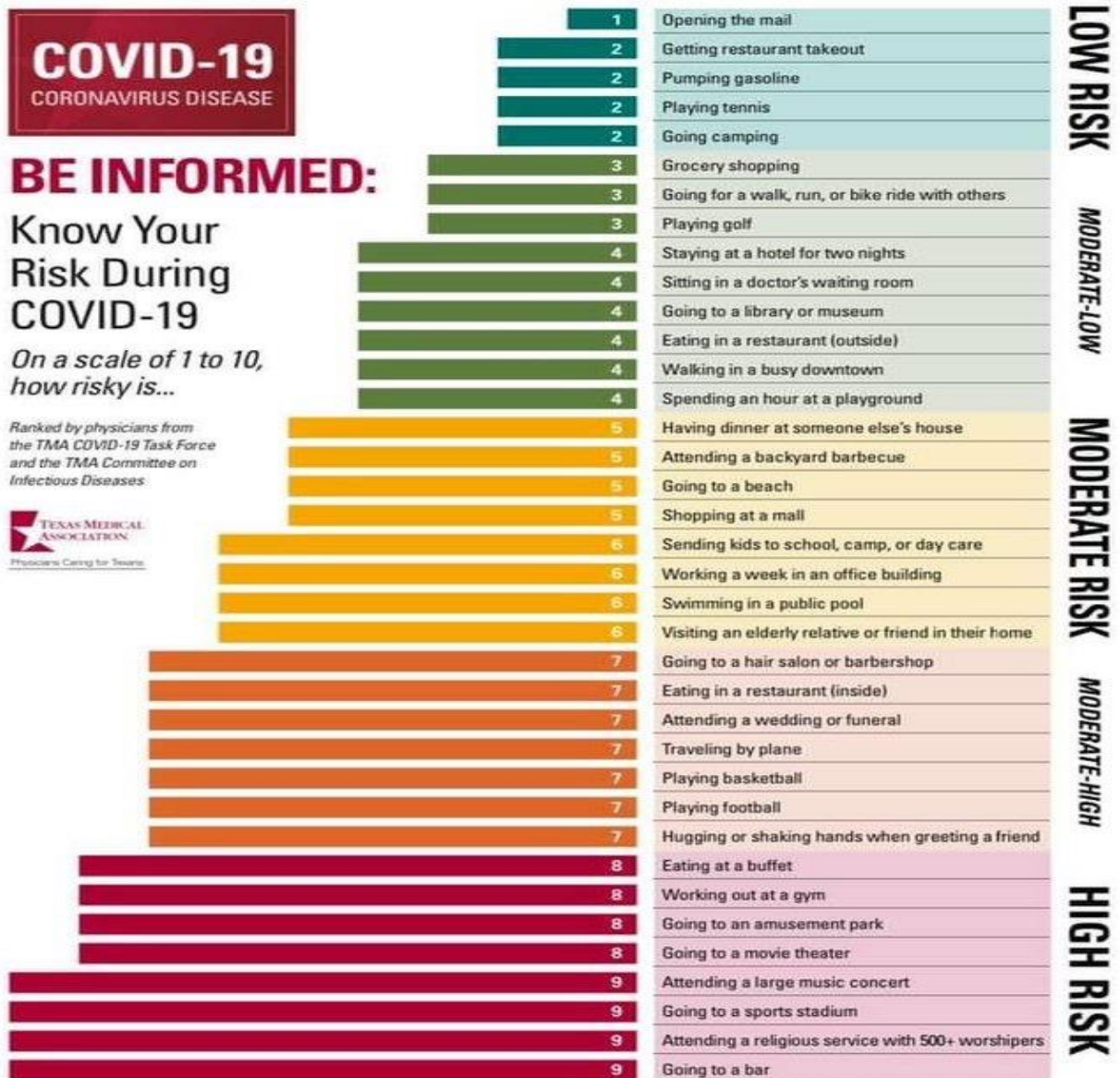
COVID-19 CORONAVIRUS DISEASE

BE INFORMED:

Know Your Risk During COVID-19

On a scale of 1 to 10,
how risky is...

Ranked by physicians from
the TMA COVID-19 Task Force
and the TMA Committee on
Infectious Diseases



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A general framework for Covid risk from ordinary activities during the pandemic.

Hope

- July 6, 2020:
 - Testing
 - The U.S. Food and Drug Administration has granted emergency use authorization to Becton Dickinson and Co for a **COVID-19 antigen test** that can be administered at the point of care **and produce results within 15 minutes**, the company said on Monday.
 - If accurate, would dramatically increase testing capacity.
 - Therapy
 - Continued vaccine development
 - 5 vaccines currently in clinical trials
 - Continued drugs that mimic immune response
 - Antibody drug development

Efficacy: Masks!

