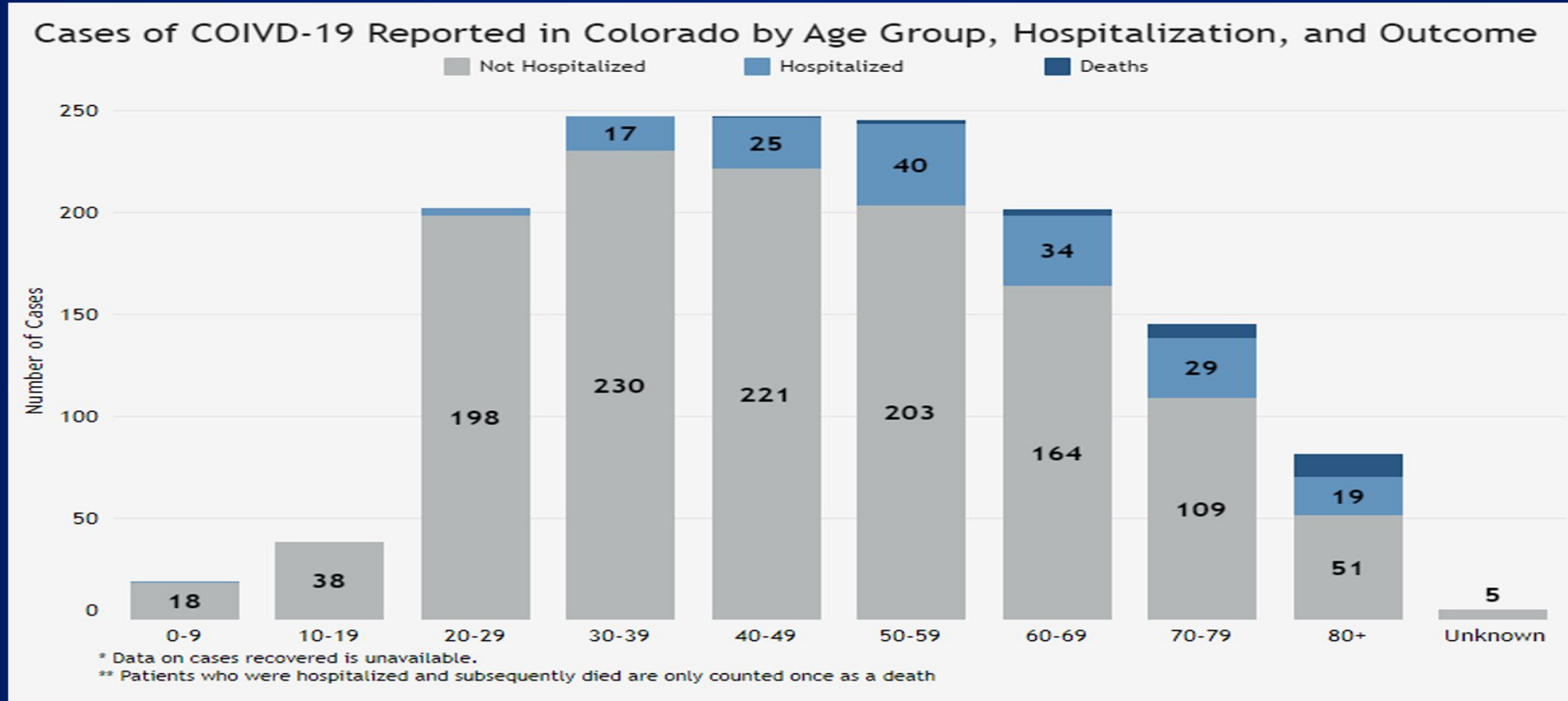




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COLORADO CASES



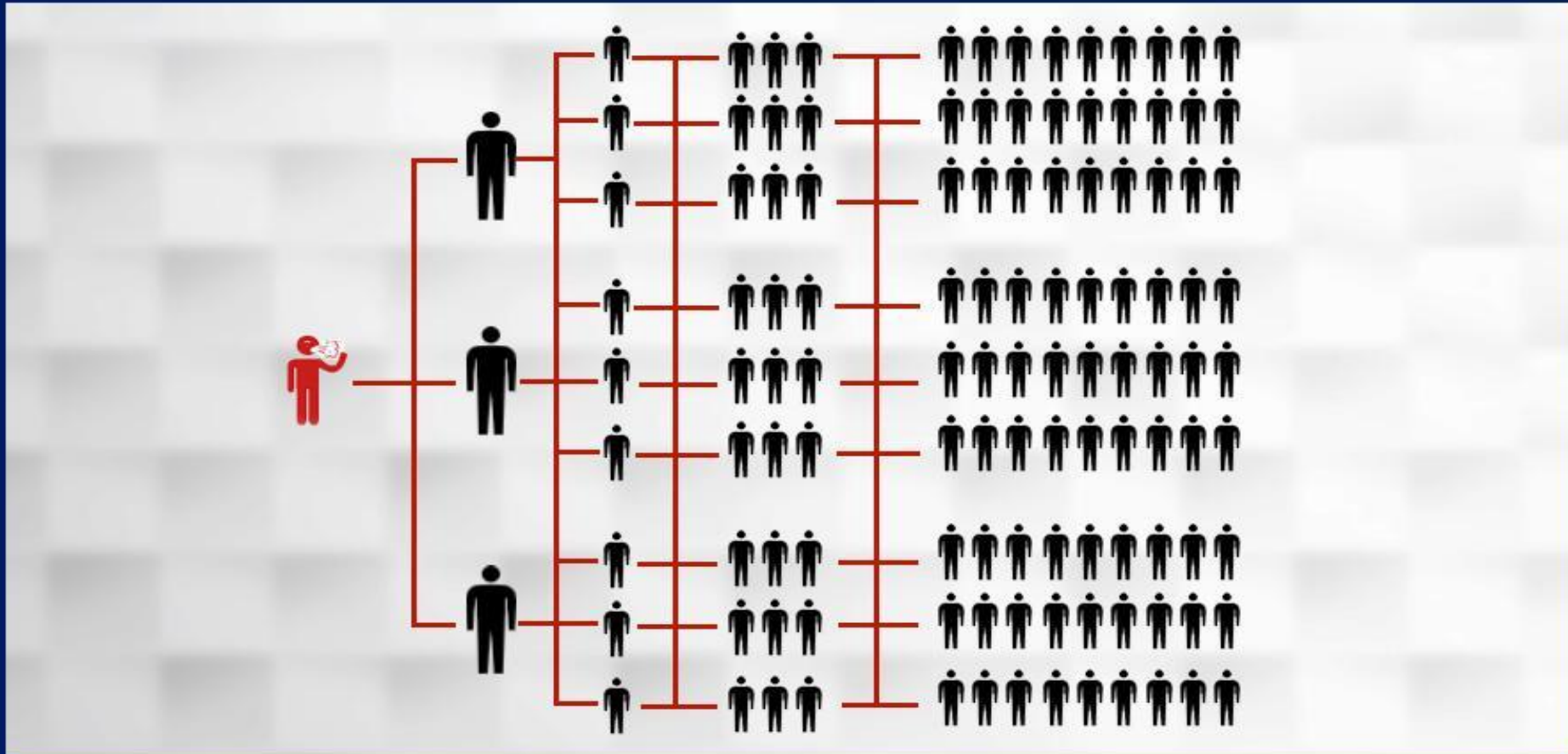
R NAUGHT VALUES (RO)

a.k.a. The number of people your positive neighbor is likely to infect

- For example: one person spreads a virus to two people, two people spread it to 4 people, and so on
- Estimated Colorado RO is between 3 & 4
- One Coloradan spreads the virus to three to four people

Our goal is to knock down the effective RO value as hard as we can and as quickly as we can

COLORADO R NAUGHT VALUES (R03)



EXPOSURE

MEASURE	TIME
Exposure to symptom onset	4-5 days
Symptomatic to CO report date	8 days
Onset to ICU admission	10-12 days
Onset to death	2+ weeks
Average ICU length of stay	8 days

ESTIMATES OF SOCIAL DISTANCING LEVELS

25-40%

Statewide closure:

- Schools
- Restaurants
- Bars
- Theaters
- Casinos
- Ski areas
- prohibition of in person gatherings of >10 people

40-60%

Statewide closure of:

- Schools
- Restaurants
- Bars
- Theaters
- Casinos
- Ski areas
- Prohibition of in person gatherings AND 50% reduction of in person workforces in non-essential businesses or critical government functions



Approx 80%

Statewide Stay-at-Home order exempting critical services

CO CALENDAR OF SOCIAL DISTANCING ACTIONS

SOCIAL DISTANCING STRATEGY	IMPLEMENTATION DATE	OBSERVED IMPACT DATE (exposure + report date = 12 days)
Stay in Place	March 26, 2020	April 7, 2020
50% Workplace reduction	March 24, 2020	April 5, 2020
Colorado School Closure	March 23, 2020	April 4, 2020
Prohibition of 10+ gatherings	March 19, 2020	March 31, 2020
DPS School Closure	March 16, 2020	March 28, 2020
Closure of Bars, Restaurants, etc.	March 16, 2020	March 28, 2020
Cancellation of 250+ gatherings	March 13, 2020	March 25, 2020

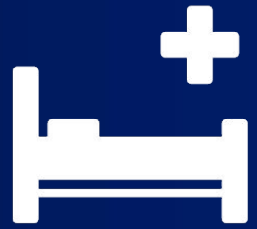
The Impact of Social Distancing on R0

RO + SOCIAL DISTANCING = OUTCOME

(SUCH AS A REDUCED ICU BED DEMAND OR NUMBER OF DEATHS)

- To understand this data the R0 value is how contagious we think the virus is at the beginning of the epidemic. In these models, we assume 1 person infects 3 or 4 people with no social distancing.
- Our scientist's best understanding is that in CO the R0 value started between 3-4 under normal social circumstances.
- When social distancing is introduced we arrive at a reduced effective R0.

ICU BED DEMAND



COLORADO HAS 1,849 ICU BEDS



ASSUME (CU ESTIMATES) 50% WILL BE NEEDED FOR NON-COVID-19



GOAL IS TO ADD 1,000 ADDITIONAL BEDS BY MAY



GOAL IS 5,000 ADDITIONAL ICU BEDS THIS SUMMER

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ICU BED DEMAND-R04 ESTIMATES

NO SOCIAL DISTANCING:

PEAK ICU BED DEMAND IS 13,800 THE END OF APRIL

1,849 ICU TOTAL (APROX 900 COVID-19 AVAILABLE)

40%



9,400

IN MAY

50%



7,300

IN LATE MAY

60%



4,500

IN JUNE

CO MODELING DATA DEATH ESTIMATES (R04)

NO SOCIAL DISTANCING: **33,200 ESTIMATED DEATHS**
BY JUNE 1, 2020



ICU BED DEMAND-RO3 ESTIMATES

NO SOCIAL DISTANCING:

PEAK ICU BED DEMAND IS 11,600 IN JUNE

1,800 ICU BEDS (APPROX 900 COVID-19 AVAILABLE)

40%



5,600

IN JULY

50%



3,300

IN SEPTEMBER

60%



900

IN DECEMBER

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CO MODELING DATA DEATH ESTIMATES (R03)

AS OF JUNE 1, 2020

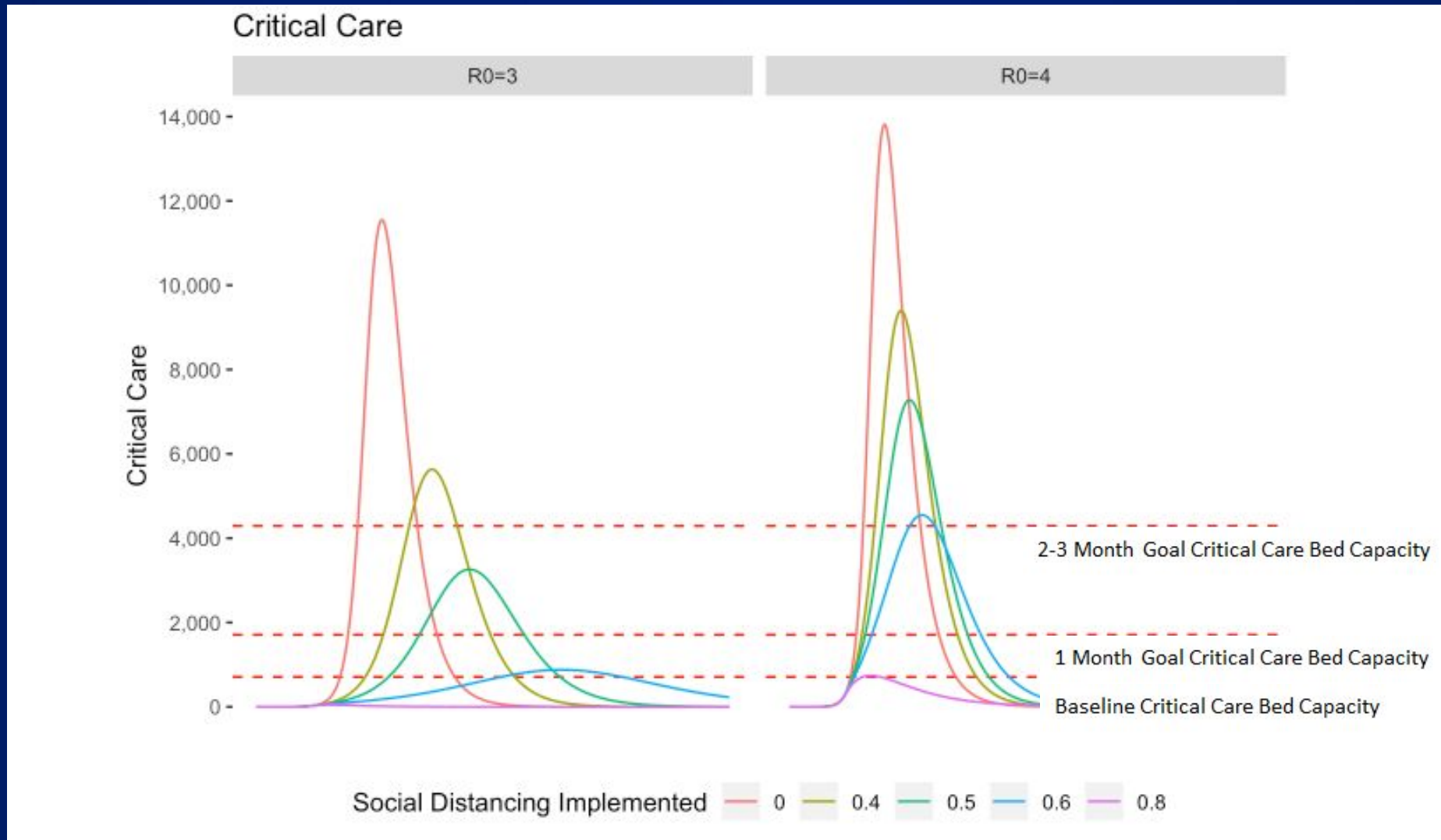
NO SOCIAL DISTANCING: 23,000 ESTIMATED DEATHS

40%
↓
1,600
ESTIMATED DEATHS

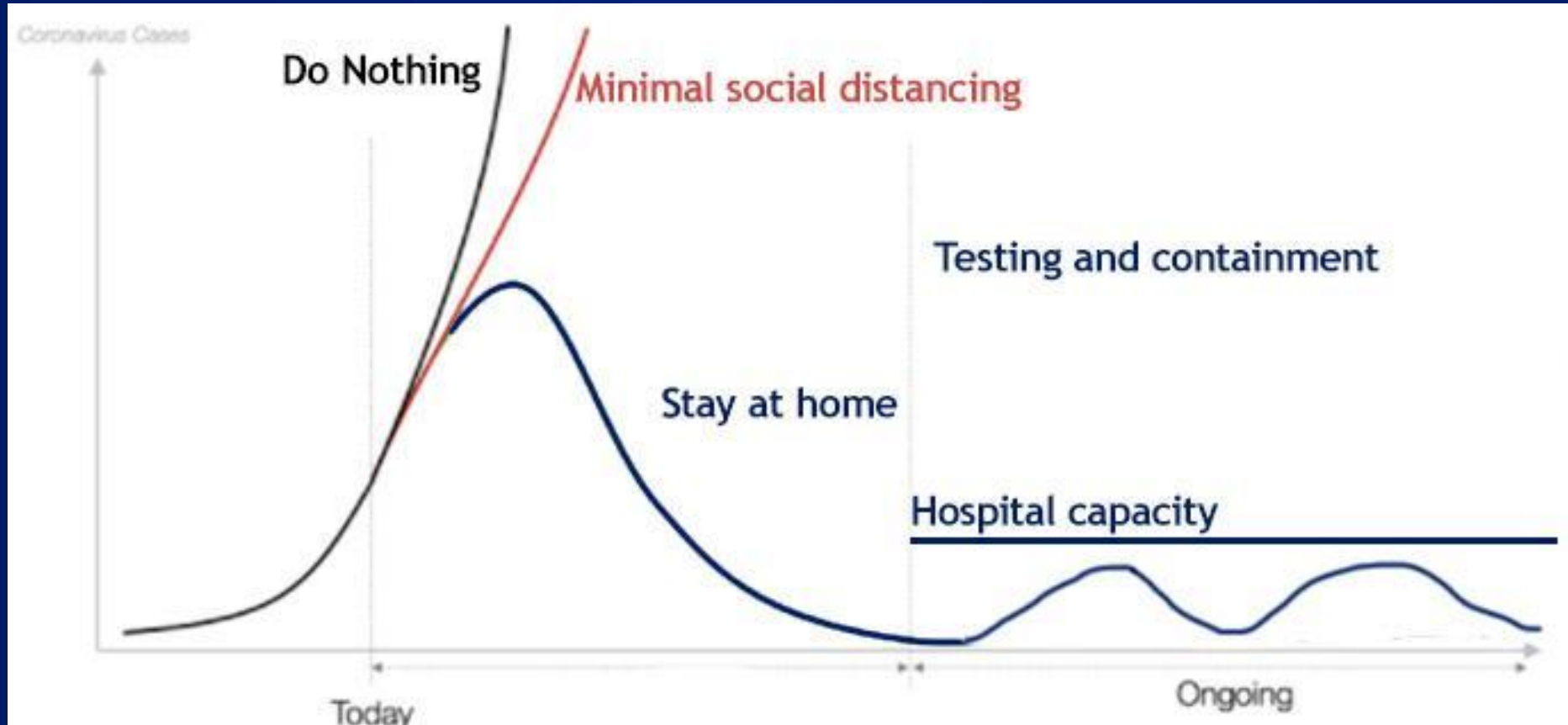
50%
↓
800
ESTIMATED DEATHS

60%
↓
400
ESTIMATED DEATHS

ICU BED DEMAND-RO3 & RO4 ESTIMATES



STAY AT HOME



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WHAT SUCCESS LOOKS LIKE

- Our hospital systems have the capacity at the point in time needed to treat our patients
- We do not have a catastrophic breach of our healthcare system
- We have planned for hospital surge capacity, testing, PPE
- Quickest possible return to work, productivity, and social and economic normalcy

WHAT SUCCESS LOOKS LIKE

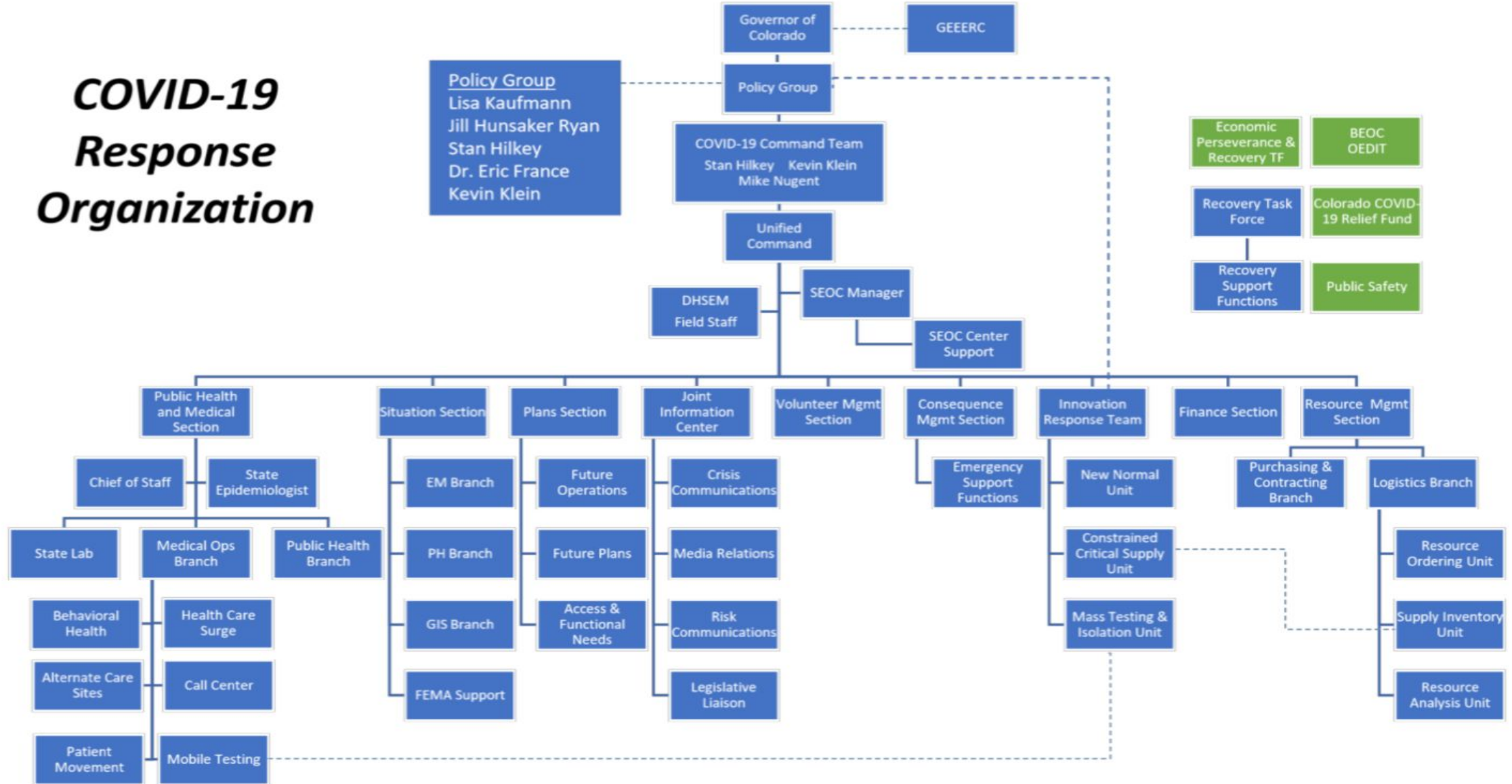
THE DAILY SENTINEL

“If we look back on this time and wonder if it was an overreaction, it will be proof that Polis did the right thing.”

March 26, 2020



**COVID-19
Response
Organization**



WE ARE IN THIS TOGETHER

**WE'RE ALL IN THIS
TOGETHER**



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