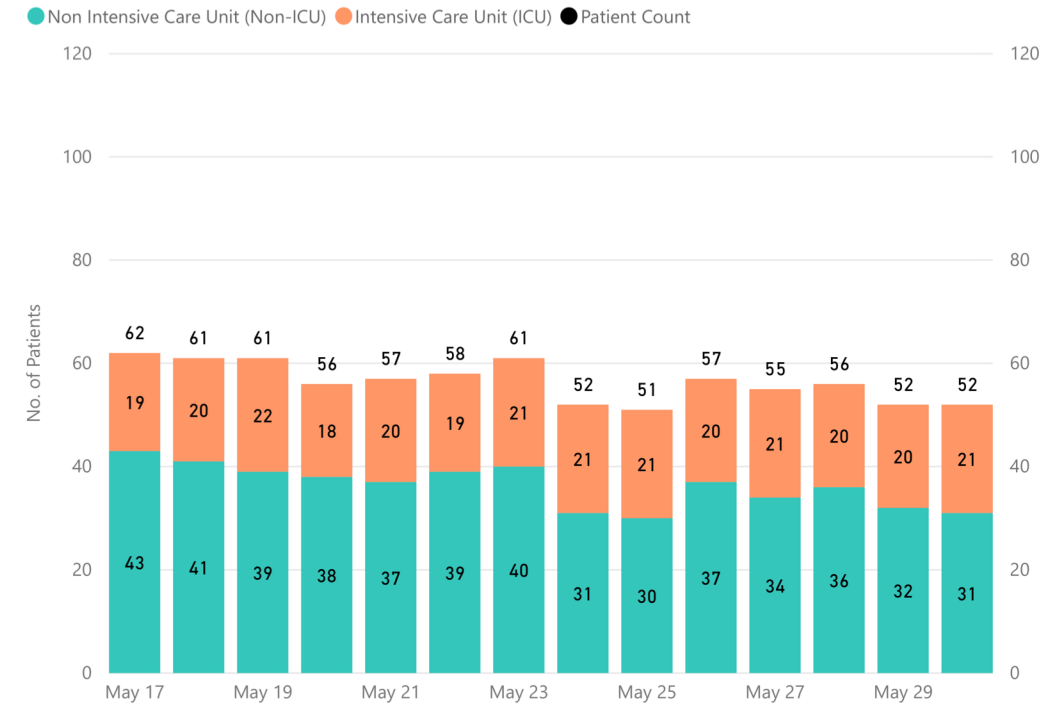
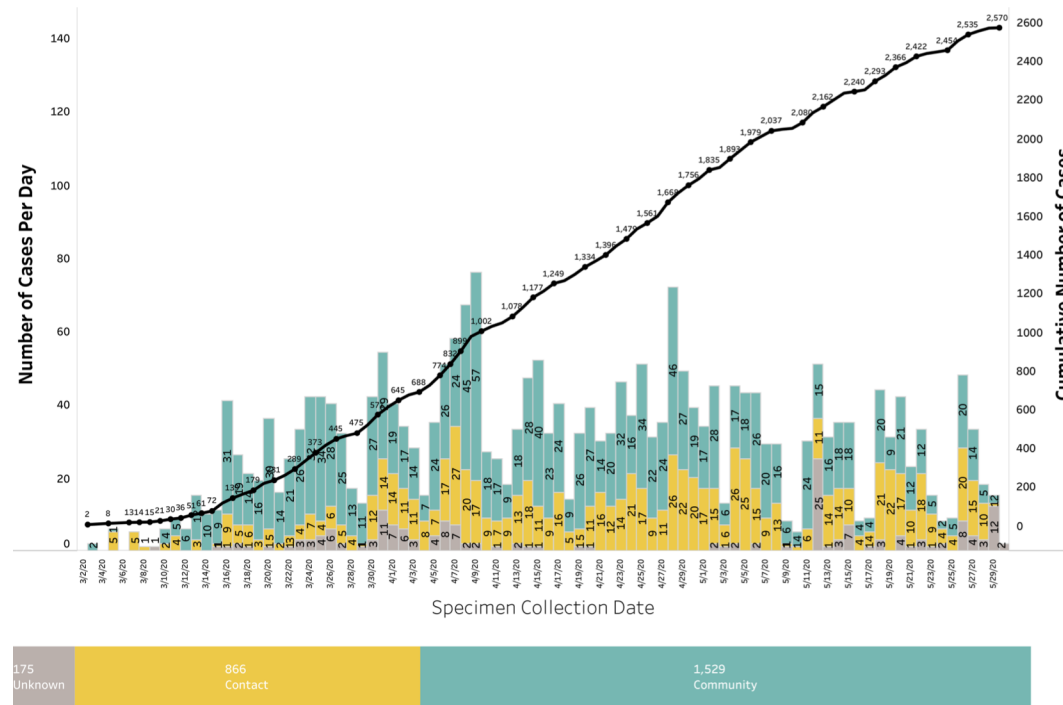


COVID-19 Update:
San Francisco Re-opening Plan
Health Commission Meeting
June 2, 2020

Tomás J. Aragón, MD, DrPH
Health Officer, City & County of San Francisco
Director, Population Health Division
San Francisco Department of Public Health

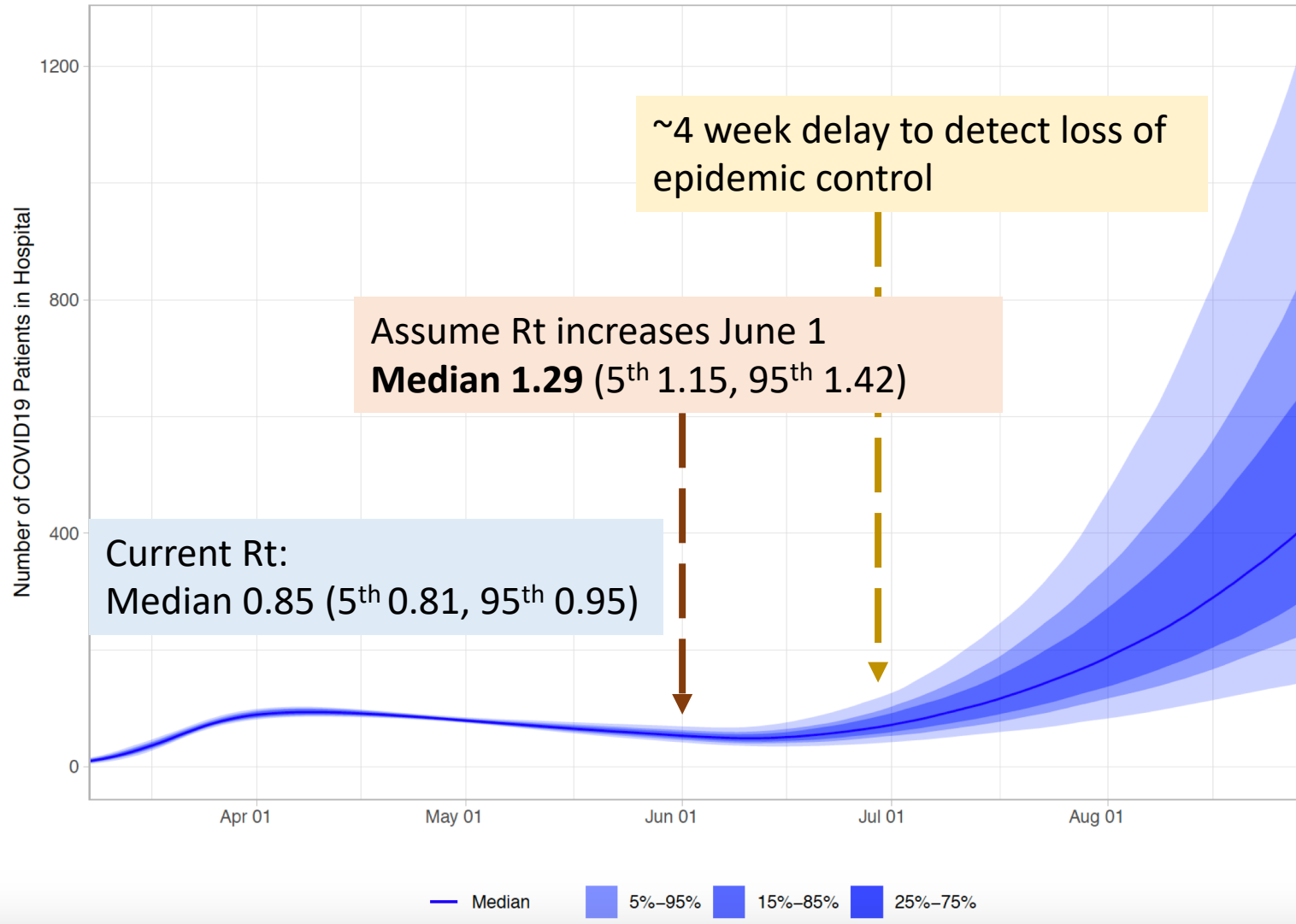
COVID-19 cases per day (left) and hospitalization census (right), San Francisco



San Francisco's Approach to Reopening

- State Resilience Roadmap as a building block
- Economic Recovery Task Force (ERTF)
- Incremental opening gated with health indicators
- Time increments between “gates” (4 weeks)
- Considers risks and mitigations
- Preference for regional coordination

Where might we be going? (if R_t increases *moderately* with phased re-opening)



- **Not a lot of room for error:** assumes as we lift Shelter in Place, we are able to keep R_t lower than it was during early March
- Hospitalization data are **not a good basis for course correction**- too much delay

California Resilience Roadmap



STAGE 1:
**Safety and
preparedness**



STAGE 2:
**Lower-risk
workplaces**



STAGE 3:
**Higher-risk
workplaces**



STAGE 4:
**End of Stay Home
Order**

Sample view of risk scoring by the Economic Recovery Task Force

	Contact Risk Larger numbers have a higher risk; using Johns Hopkins risk definitions; assuming business are doing the mitigation activities			Modification: Ability to mitigate risk Larger numbers have a higher difficulty; using Johns Hopkins definitions		Total Risk Score		
Category (San Francisco specific)	Contact Proximity How close will the contact be	Contact Length How long will the contact be?	Contact Volume How many people will be at the activity?	Difficulty to socially distance	Difficulty to disinfect	Contact Risk Score (40% of Total Score)	Modification Score (60% of Total Score)	San Francisco Total Score [=(0.4*Contact Score)+(0.6*Modification Score)]
Offices	1.0	1.0	1.0	2.0	1.0	1.0	1.5	1.3
Pet Services	2.0	1.0	1.0	1.0	2.0	1.3	1.5	1.4
Botanical gardens & outdoor historical sites	2.0	1.0	2.0	1.0	2.0	1.7	1.5	1.6
Nature, parks, beaches, and other outdoor spaces	1.0	1.0	1.0	2.0	2.0	1.0	2.0	1.6
Non-essential manufacturing	1.0	2.0	3.0	2.0	1.0	2.0	1.5	1.7
Wholesale trade, leasing, & logistics	2.0	2.0	1.0	2.0	2.0	1.7	2.0	1.9
Retailers	2.0	1.0	2.0	2.0	2.0	1.7	2.0	1.9
Restaurants	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

State Stages are guide SF's re-opening Phases

Phase 2 (State Stage 2)		Phase 3	Phase 4
Early Phase 2 (2a: June 1 st and 2b: June 15 th)	Expanded Phase 2 (2c: July 13 th) (County-specific plan required to move faster)	(Mid August)	
Lower-risk workplaces Gradually reopen retail (curbside only), manufacturing & logistics. Later, relax retail restrictions, adapt & reopen schools, childcare, offices & limited hospitality, personal services.		Higher-risk workplaces Adapt and reopen movie theaters, religious services, & more personal & hospitality services.	End of Stay Home Order Reopen areas of highest risk: e.g. Concerts, conventions, sports arenas.
<ul style="list-style-type: none"> • Curb-side retail • Manufacturers • Logistics • Childcare for nonessential workforce • Select services: car washes, pet grooming, and landscape gardening • Outdoor museums, and open gallery spaces and other public spaces with modifications • Office-based businesses (telework remains strongly encouraged) • In-person religious services (churches, weddings) 	<ul style="list-style-type: none"> • Destination retail, including shopping malls and swap meets • Dine-in restaurants (other amenities, like bars or gaming areas, are not permitted in Stage 2) • Schools with modifications 	<ul style="list-style-type: none"> • Personal care (hair and nail salons, gyms) • Entertainment venues (movie theaters, sports without live audiences) 	<ul style="list-style-type: none"> • Concerts • Conventions • Live audience sports

Summary of San Francisco Re-opening Plan

<https://sf.gov/information/reopening-san-francisco>

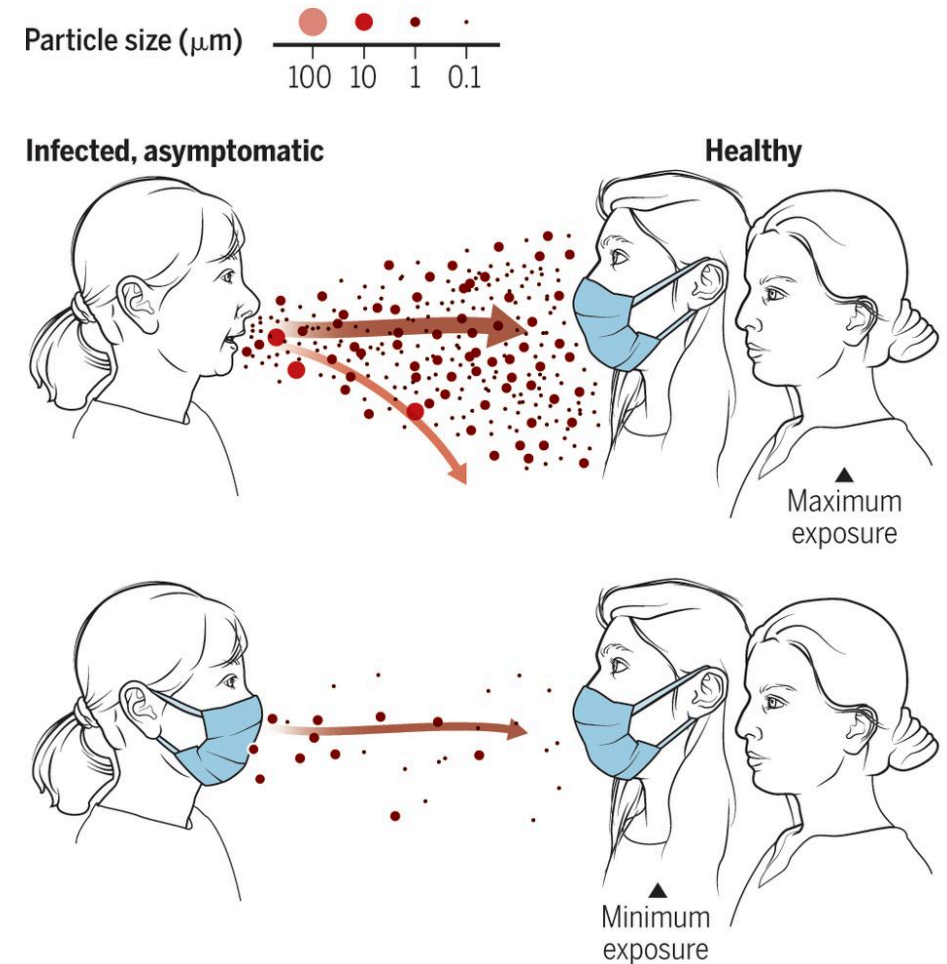
- Bounded by State phases
 - Allowable businesses or activities in State phases may change
 - Pace at which State moves through phases unpredictable
- Risk and potential to mitigate risk (risk stratification)
- Hard hit sectors
 - Viewing change in employment numbers
 - Ability for sectors to continue operating remotely or online
- Underlying sectors that are critical for reopening (e.g. childcare, education)
- Review pre-COVID employment numbers as marker for possible mobility
- Assume return of full workforce to pre-COVID-19 levels may be unlikely

How to re-open San Francisco

- Businesses and community
 - Face coverings
 - Physical distancing
 - Hand washing
 - Testing (role of asymptomatics)
- City and partners
 - Universal testing access
 - Early detection systems (cases)
 - Case and contact investigations
 - Orders, directives, best practices

Masks reduce airborne transmission

Infectious aerosol particles can be released during breathing and speaking by asymptomatic infected individuals. No masking maximizes exposure, whereas universal masking results in the least exposure.



GRAPHIC: V. ALTOUNIAN/SCIENCE

Appendix

State Stage 2: Lower-risk workplaces

Gradually opening some lower risk workplaces with adaptations at a pace designed to protect public health and safety, starting with:

- Retail
- Manufacturing
- Offices (when telework not possible)
- Outdoor Museums
- Limited Personal Services

Limit time outside the home and travel only for permissible activities, such as healthcare, food, outdoor exercise and recreation (individuals and households only). Stage 1 and 2 work, and local shopping or other activities related to open sectors.

State Stage 3: Higher-risk workplaces

Phase in higher-risk workplaces at a pace designed to protect public health and safety, beginning with limited personal care and recreational venues (with workplace modifications).

Travel for permissible activities, such as healthcare, food, stages 1-3 work, and local or activities shopping related to open sectors.

Monitor critical indicators and alter scope of reopening if necessary to protect public health and safety.

State Stage 4: End of stay at home order

Gradually open larger gathering venues at a pace consistent with public health and safety, such as nightclubs, concert venues, and live audience sports.

Gradually resume remaining activities and travel.

Monitor critical indicators and alter scope of reopening if necessary to protect public health and safety.