

MACRO PARAMETERS	
Risk Threshold ("Viral Threshold")	5.0%
Confidence Interval Alpha: (.05 = 95% Confidence)	0.05

RESULTS - GLOBAL VIRAL CURVE at Selected Viral Threshold and Alpha			ALL N =	174
Full Cycle Locations:	34	20%		
Ongoing Tail Locations:	114	66%		
No Peak Locations	26	15%		
Viral Curve Duration				
N =		Low	Mean	High
148 Pre-Peak (using Full Pre-Peak Cycle locations)		17.31	18.61	19.91
34 Post-Peak (using Full Post-Peak Locations)		15.20	18.91	22.62
		32.51	37.52	42.53
Pre-Peak/Post-Peak Correlation Coefficient - All Cases		(0.66)		
Pre-Peak/Post-Peak Correlation Coefficient - Full Cycle Cases Only		(0.60)		

RESULTS - US VIRAL CURVE at Selected Viral Threshold and Alpha			ALL N =	484
Full Cycle Locations:	14	3%		
Ongoing Tail Locations:	422	87%		
No Peak Locations	48	10%		
Viral Curve Duration				
N =		Low	Mean*	High
436	Pre-Peak (using Full Pre-Peak Cycle locations)	16.76	17.22	17.68
14	Post-Peak (using Full Post-Peak Locations)	3.00	5.93	8.86
		19.75	23.15	26.54
Pre-Peak/Post-Peak Correlation Coefficient - All Cases		(0.63)		
Pre-Peak/Post-Peak Correlation Coefficient - Full Cycle Cases Only		(0.11)		

* Significant difference in means between global and US Pre-Peak Durations (p < .05)

** p < .001 at all risk thresholds and alphas (1% - 10%; .01 - .10)

USER PREFERENCES				
Use Institutionally Specific Profile based on Origin of Stakeholders? Increase in Duration due to Curve Lengthening Strategies Asymptomatic "Lurking" (1) Access to Care Indexed to State (* enter County Beds/K if known)	ENABLE	Status	Index	Local Var.
	X	ON	1.15	-50%
	X	ON	1.35	-50%
	X	ON	1.17	
	AL	X	ON	

INDEX ADJUSTMENTS FOR INTERSTATE VARIABILITY and KNOWN RISK GROUPS (Select with X)
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	ENABLE	Status	Weight (0-1)	
Age	X	ON	0.5	Enable if stakeholders are younger than population average
Poverty	X	ON	0.5	Enable if stakeholders are wealthier than population average
Race	X	ON	0.5	Enable if percentage of African Americans is below average
Gender	X	ON	0.5	Enable if percentage of Males is below average
Confirmed Cases	x	ON	1	Normalizes for variations in state incidence rates
Fatality Rate	X	ON	1	Normalizes for variations in state fatality rates

SUMMARY STATISTICS			
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# Cases at Peak as Percent of Total*		Days to Peak	
Descriptive Statistics		Descriptive Statistics	
MEAN	40.62%	MEAN	31.91
Standard Deviation	20.15%	Standard Deviation	17.07
Count	34.00	Count	174.00
Alpha	0.05	Alpha	0.05
Confidence Interval	6.8%	Confidence Interval	2.54
MEDIAN	40.61%	MEDIAN	28.50
HIGH	47.39%	HIGH	34.45
MEAN	40.6%	MEAN	31.91
LOW	33.85%	LOW	29.38

* Using Full Cycle Cases Only

At the Mean Average, 40.62% of cases occur prior to the highest peak with the peak occurring 31.91 days after the first reported case or 18.61 days after reaching a threshold of 5.0% of the peak number of cases. At global rates, 493,387 additional cases will appear in the United States after reaching its peak date of April 10, 2020 when 337,512 confirmed cases were recorded since the first US case on January 23, 2020. At the Mean Average, cases fall below the viral threshold 18.91 days after the peak date or 50.83 days after first onset. On that date, an estimated 3,028 newly confirmed cases would present themselves in the US, representing 0.91 cases per 100,000 residents.

More conservatively, globally 33.85% of cases occur prior to the highest peak with the peak occurring 34.45 days after the first reported case or 19.91 days after reaching a threshold of 5.0% of the peak number of cases. At global rates, the 659,688 additional cases will appear in the United States after reaching its peak date of April 10, 2020 when 337,512 confirmed cases were recorded since the first US case on January 23, 2020. At the Mean Average, cases fall below the viral threshold 22.62 days after the peak date or 57.07 days after first onset. On that date, an estimated 3,028 newly confirmed cases would present themselves in the US, representing 0.91 cases per 100,000 residents.

NOTE

For the United States, global Mean Averages offer limited utility due to a host of mitigating factors including: wide episodic variability in general; multiple containment timeframes and strategies; intentional efforts lengthening duration to mitigate stress on healthcare systems ("flattening the curve"), and limited post-peak data. Estimation complexity is compounded by under-testing in some areas and the extent to which misdiagnosed or asymptomatic patients do not appear as confirmed cases ("lurking"). The model therefore adjusts for curve flattening and lurking, at the user's option.

INSTITUTIONAL IMPLICATIONS			
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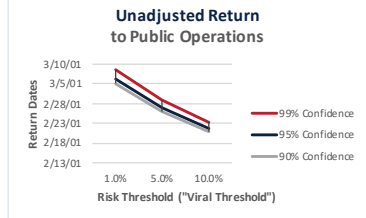
MEAN AVERAGE RETURN TO OPERATIONS

Date of Last Reported First Case - Local / Employee Area
Date of Last Reported First Case - Institution Drawing Area

Mean Suggested Return Date	2/27/01
	2/27/01

Sensitivity Analysis

PUBLIC	Threshold Level			
	2/27/01	1.0%	5.0%	10.0%
Confidence	0.01	3/8/01	3/1/01	2/23/01
Interval Alpha	0.05	3/6/01	2/27/01	2/21/01
	0.10	3/5/01	2/26/01	2/20/01



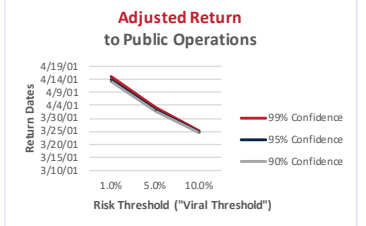
ADJUSTED RETURN TO OPERATIONS DATES

RETURN TO PUBLIC OPERATIONS	Monday, April 2, 2001
RETURN TO LOCAL/EMPLOYEE OPERATIONS	Wednesday, March 7, 2001

Mean Suggested Return Date: 2/27/01
Adjustment for Interstate Variability and Institutional Specifics ("Institutional Index"): (12.06) Days
Revised RTO Date: 2/13/01
Global Curve Lengthening Effect: 51.67 Days
Local Curve Lengthening Effect: 25.84
Weighted Access to Care Impact (if County Beds/K entered uses County level index): (17.39) Days

Sensitivity Analysis

PUBLIC	Threshold Level			
	4/2/01	1.0%	5.0%	10.0%
Confidence	0.01	4/15/01	4/3/01	3/25/01
Interval Alpha	0.05	4/13/01	4/2/01	3/24/01
	0.10	4/13/01	4/1/01	3/24/01



EMPLOYEES	Threshold Level			
	2/27/01	1.0%	5.0%	10.0%
Confidence	0.01	3/8/01	3/1/01	2/23/01
Interval Alpha	0.05	3/6/01	2/27/01	2/21/01
	0.10	3/5/01	2/26/01	2/20/01



EMPLOYEES	Threshold Level			
	3/7/01	1.0%	5.0%	10.0%
Confidence	0.01	3/17/01	3/8/01	3/2/01
Interval Alpha	0.05	3/15/01	3/7/01	3/1/01
	0.10	3/14/01	3/6/01	2/28/01

