

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 =	195
Full Cycle Locations:	62	32%			
Ongoing Tail Locations:	115	59%			
No Peak Locations	18	9%			
Viral Curve Duration					
N =		Low	Mean	High	
177 Pre-Peak (using Full Pre-Peak Cycle locations)	21.24	22.97	24.69		
62 Post-Peak (using Full Post-Peak Locations)	18.73	21.39	24.04		
	39.98	44.35	48.73		
Pre-Peak/Post-Peak Correlation Coefficient - All Cases	(0.59)				
Pre-Peak/Post-Peak Correlation Coefficient - Full Cycle Cases Only	(0.36)				

RESULTS - US VIRAL CURVE at Selected Viral Threshold and Alpha				ALL N =	749
Full Cycle Locations:	43	6%			
Ongoing Tail Locations:	672	90%			
No Peak Locations	34	5%			
Viral Curve Duration					
N =		Low	Mean*	High	
715 Pre-Peak (using Full Pre-Peak Cycle locations)	23.20	23.94	24.69		
43 Post-Peak (using Full Post-Peak Locations)	13.19	16.05	18.90		
	36.39	39.99	43.59		
Pre-Peak/Post-Peak Correlation Coefficient - All Cases	(0.69)				
Pre-Peak/Post-Peak Correlation Coefficient - Full Cycle Cases Only	(0.28)				

* 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

	ENABLE	Status	Index	Local Var.
Use Institutionally Specific Profile based on Origin of Stakeholders?	X	ON		
Increase in Duration due to Curve Lengthening Strategies	X	ON	0.76	-50%
Asymptomatic "Lurking" (1)	X	ON	1.35	-50%
Access to Care Indexed to State (* enter County Beds/K if known)	AL	X	1.17	4.70*

INDEX ADJUSTMENTS FOR INTERSTATE VARIABILITY and KNOWN RISK GROUPS (Select with X)

	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

# Cases at Peak as Percent of Total*		Days to Peak	
Descriptive Statistics		Descriptive Statistics	
MEAN	52.80%	MEAN	41.60
Standard Deviation	19.05%	Standard Deviation	19.77
Count	49.00	Count	195.00
Alpha	0.05	Alpha	0.05
Confidence Interval	5.3%	Confidence Interval	2.78
MEDIAN	53.28%	MEDIAN	41.00
HIGH	58.13%	HIGH	44.38
MEAN	52.8%	MEAN	41.60
LOW	47.46%	LOW	38.82

* Using Full Cycle Cases Only

At the Mean Average, **52.80%** of cases occur prior to the highest peak with the peak occurring **41.60** days after the first reported case or **22.97** days after reaching a threshold of **5.0%** of the peak number of cases. At global rates, **413,645** additional cases will appear in the United States after reaching its peak date of **April 10, 2020** when **462,656** confirmed cases were recorded since the first US case on January 23, 2020. At the Mean Average, cases fall below the viral threshold **21.39** days after the peak date or **62.99** days after first onset. On that date, an estimated **1,657** newly confirmed cases would present themselves in the US, representing **0.50** cases per 100,000 residents.

More conservatively, globally **47.46%** of cases occur prior to the highest peak with the peak occurring **44.38** days after the first reported case or **24.69** days after reaching a threshold of **5.0%** of the peak number of cases. At global rates, the **512,106** additional cases will appear in the United States after reaching its peak date of **April 10, 2020** when **462,656** confirmed cases were recorded since the first US case on January 23, 2020. At the Mean Average, cases fall below the viral threshold **24.04** days after the peak date or **68.41** days after first onset. On that date, an estimated **1,657** newly confirmed cases would present themselves in the US, representing **0.50** 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

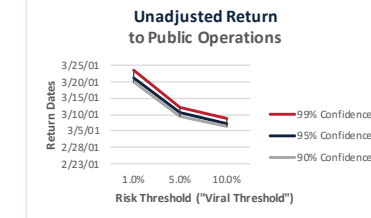
MEAN AVERAGE RETURN TO OPERATIONS

Date of Last Reported First Case - Local / Employee Area: **1/1/01**
 Date of Last Reported First Case - Institution Drawing Area: **1/1/01**

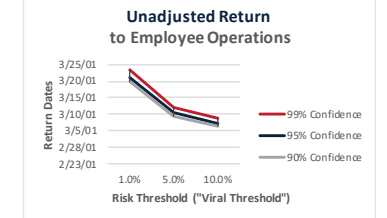
Mean Suggested Return Date: **3/10/01**
3/10/01

Sensitivity Analysis

Confidence Interval Alpha	Threshold Level			
	3/10/01	1.0%	5.0%	10.0%
0.01	3/23/01	3/12/01	3/8/01	3/8/01
0.05	3/21/01	3/10/01	3/7/01	3/7/01
0.10	3/19/01	3/9/01	3/6/01	3/6/01



Confidence Interval Alpha	Threshold Level			
	3/10/01	1.0%	5.0%	10.0%
0.01	3/23/01	3/12/01	3/8/01	3/8/01
0.05	3/21/01	3/10/01	3/7/01	3/7/01
0.10	3/19/01	3/9/01	3/6/01	3/6/01



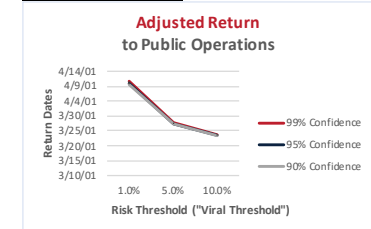
ADJUSTED RETURN TO OPERATIONS DATES

RETURN TO PUBLIC OPERATIONS	Tuesday, March 27, 2001
RETURN TO LOCAL/EMPLOYEE OPERATIONS	Tuesday, March 6, 2001

Mean Suggested Return Date: **3/10/01**
 Adjustment for Interstate Variability and Institutional Specifics ("Institutional Index"): **(13.94) Days**
 Revised RTO Date: **2/24/01**
 Global Curve Lengthening Effect: **41.28 Days**
 Local Curve Lengthening Effect: **20.64**
 Weighted Access to Care Impact (if County Beds/K entered uses County level index): **(24.17) Days**

Sensitivity Analysis

Confidence Interval Alpha	Threshold Level			
	3/27/01	1.0%	5.0%	10.0%
0.01	4/10/01	3/27/01	3/23/01	3/23/01
0.05	4/9/01	3/27/01	3/23/01	3/23/01
0.10	4/9/01	3/27/01	3/23/01	3/23/01



Confidence Interval Alpha	Threshold Level			
	3/6/01	1.0%	5.0%	10.0%
0.01	3/18/01	3/7/01	3/4/01	3/4/01
0.05	3/17/01	3/6/01	3/3/01	3/3/01
0.10	3/16/01	3/6/01	3/3/01	3/3/01

