

COVID-19 RETURN-TO-OPERATIONS RISK ASSESSMENT MODEL DASHBOARD

Version 2.0, May 8, 2020

3/10/01

3/10/01

3/8/01

MACRO PARAM	IETERS				SUMMARY ST	TATISTICS	
Risk Threshold ("Viral Threshold")			5.0%				
Confidence Interval Alpha: (.05 = 95% Confidence)			0.05				
		A	LL N = 195				
RESULTS - GLOBAL VIRAL CURVE at Selected Viral	Threshold and Alpha			# Cases at Peak as Pe	ercent of Total*	Days to Peak	
Full Cycle Locations:	62 32%			Descriptive Statistics		Descriptive Statistics	
Ongoing Tail Locations:	115 59%			1 CE LA LA	52 000/	MEAN	11.00
No Peak Locations	18 9%			MEAN Studied Decision	52.80%	MEAN Stord and Davidian	41.60
Vinal Course Duration				Standard Deviation	19.05%	Standard Deviation	19.//
viral Curve Duration	Taur	Maan	Hish	Almha	49.00	Alaha	195.00
177 Pro Pools (using Full Pro Pools Cuola logations) 21.24	22.07	24.60	Confidence Interval	5 29/	Alpha Confidence Interval	0.03
62 Doct Dock (using Full Post Dock Locations)) 21.24	22.97	24.09	Confidence interval	5.570	Confidence filter var	2.70
02 FOST-FEAK (USING FULL FOST-FEAK LOCALIONS)	30.08	44.35	48.73	MEDIAN	53 28%	MEDIAN	41.00
	57.78	4.55	40.75	WEDIAN	35.2070	MEDIAN	41.00
Pro Pools/Poot Pools Correlation Coofficient All Cases	(0.50)			шси	59 120/	HIGH	11 29
Pre-Peak/Post-Peak Correlation Coefficient - All Cases	(0.39) Only (0.36)			MEAN	52.8%	MEAN	44.58
The react ost of the contention coefficient - I un cycle cases	Olly (0.50)			LOW	17.46%	LOW	38.82
				LOW	47.4070	LOW	56.62
		Δ	LL N = 740	* Using Full Cycle Cases	Owhy		
RESULTS - US VIRAL CURVE at Selected Viral Thresh	old and Alpha	А		Osing Full Cycle Cases	Only		
Full Cycle Locations:	43 6%			At the Mean Average	52.80% of case	es occur prior to the highest peak y	with the
Ongoing Tail Locations:	672 90%			neak occurring	41.60 days after the first	reported case or 22.9	7 days
No Peak Locations	34 5%			after reaching a thresh	ald of 5.0% of the	neak number of cases At global	rates
	5. 570			413.645 additio	onal cases will appear in the I	Inited States after reaching its pea	k date of
Viral Curve Duration				April 10, 2020 when	462.656 confirm	ed cases were recorded since the	first US
N =	Low	Mean*	High	case on January 23, 20	020 At the Mean Average c	ases fall below the viral threshold	21.39
715 Pre-Peak (using Full Pre-Peak Cycle locations) 23.20	23.94	24.69	days after the neak dat	te or 62.99 days af	ter first onset. On that date an est	imated
43 Post-Peak (using Full Post-Peak Locations)	13.19	16.05	18.90	1 657 newly	confirmed cases would pres	ent themselves in the US represe	nting
+5 1 Ost-1 Car (using Full 1 Ost-1 Car Locations)	36.39	39.99	43 59	0.50 cases	ner 100 000 residents	ent meniserves in me 03, represen	nung
	50.57	37.77	45.57	0.50 cases	per 100,000 residents.		
Pre Peak/Post-Peak Correlation Coefficient - All Cases	(0.69)			More conservatively	alobally 47.46% of case	e occur prior to the highest peak a	with the
Pre-Peak/Post-Peak Correlation Coefficient - Full Cycle Cases	(0.05) Only (0.28)			neak occurring	44.38 days after the first	reported case or 24.6	9 days
The feast ost feak conclution coefficient - fun cycle cuses	Only (0.20)			after reaching a thresh	ald of 50% of the	neak number of cases At global	rates the
nificant difference in means between global and US Pre-Peak Durations ($n < n$	(05)			512 106 additio	onal cases will appear in the I	Inited States after reaching its nea	k date of
< 001 at all risk thresholds and alphas (1% - 10%; 01 - 10)	.00)			April 10, 2020, when	462 656 confirm	and cases were recorded since the	first US
·				case on January 23 2	020 At the Mean Average c	ases fall below the viral threshold	24.04
LISED PDEFERNCES			days after the peak, dat	te or 68 41 days af	ter first onset. On that date an est	imated	
ODER TRETEE	itels			1 657 newly	confirmed cases would pres	ent themselves in the US represe	nting
	ENABLE	Status		0.50 cases	ner 100 000 residents	ent meniserves in me ob, represen	
Institutionally Specific Profile based on Origin of Stakeholders?	X	ON /	ndar Local Var	one of cases	per roo,ooo residento.		
ease in Duration due to Curve Lengthening Strategies	X	ON I	0.76 50%	1	NOT	F	
mptemptia "Lurking" (1)	X	ON	1.25 50%		101		
ress to Care Indexed to State (* antar County Bads/K if known)		ON 1	1.33 -3076	* For the United 9	States global Moon Average	ass offer limited utility due to a	host of
ess to care indexed to state (enter county beas/k if known)	AL A	UN	4./0	mitigating factors inc	states, giobai Mean Avera; Juding: wido opicodio vorio	bility in general multiple conte	inmont
INDEV AD HIGTMENITC FOD INTEDCTATE VADIADI I	TV and UNOWN DIG	EV CROUPS	(Calastanida V)	time from a state	tuunig. wide episoule varia	ionity in general, multiple conta	an ment
INDEX ADJUSTMENTS FOR INTERSTATE VARIABILI	I Y and KNOWN KIS	SK GROUPS	(Select with X)	timetrames and s	trategies; intentional effort	s lengthening duration to mitig	ate stress
				on healthcare syste	ms ("flattening the curve")), and iimited post-peak data.	Estimation
ENABLE Status Weight (0-1)	11 1	.,	1	complexity is con	npounded by under-testing	g in some areas and the extent t	o which
X = 0N = 0.5 E	nable if stakeholders are	e younger than po	opulation average	misdiagnosed or a	symptomatic patients do n	ot appear as confirmed cases ("	urking").
A ON 0.5 E	nable if stakeholders are	e wealthier than p	opulation average	The model there	tore adjusts for curve flatte	ening and lurking, at the user's	option.
e X ON 0.5 E	nable if percentage of Aj	frican Americans	is below average				
ider X ON 0.5 E	nable if percentage of M	lales is below ave	rage				
ntirmed Cases x ON 1 N	ormalizes for variations	in state incidence	rates				
tality Rate X ON 1 N	ormalizes for variations	in state fatality ra	ites				

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

INSTITUTIONAL IMPLICATIONS

MEAN AVERAGE RETURN TO OPERATIONS



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 Countly level index): (24.17) Days Sensitivity Analysis PUBLIC Threshold Level EMPLOYEES Threshold Level 5.0% 10.0% 1.0% 5.0% 10.0% 3/27/01 1.0% 3/6/01 0.01 4/10/01 3/27/01 3/23/01 3/18/01 3/7/01 3/4/01 0.01 Confidence Confidence 0.05 4/9/01 3/27/01 3/23/01 3/17/01 3/6/01 3/3/01 0.05 Interval Alpha Interval Alpha 0.10 4/9/01 3/27/01 3/23/01 0.10 3/16/01 3/6/01 3/3/01 **Adjusted Return** Adjusted Return to Public Operations to Employee Operations 3/20/01 4/14/01 4/9/01 g 3/15/01 4/4/01 a/10/01 G 3/30/01 99% Confidence 99% Confidence **L** 3/25/01 un 3/5/01 a 3/20/01 95% Confidence 95% Confidence 2/28/01 3/15/01 90% Confidence 90% Confidence 3/10/01 2/23/01 1.0% 5.0% 10.0% 1.0% 5.0% 10.0% Risk Threshold ("Viral Threshold") Risk Threshold ("Viral Threshold")