Table 4: Difference-in-difference regressions demonstrating the effect of reopening college campuses on mobility and COVID-19 incidence and sequelae.

	Log visitors	Daily new cases	Daily new cases	Daily new	Daily new cases	Daily new	Rt
	nog vierters	per 100,000 from USAFacts	per 100,000 from CDC	hospitalized cases per 100,000	in ICU per 100,000	deaths per 100,000	100
Baseline	0.322 (0.015)	4.885 (1.004)	2.729 (0.772)	0.023 (0.052)	0.020 (0.010)	0.027 (0.031)	0.056 (0.016)
	[0.293, 0.351]	[2.918, 6.853]	[1.215, 4.242]	[-0.079, 0.125]	[-0.001, 0.040]	[-0.034, 0.088]	[0.025, 0.087]
	{p<0.001}	{p<0.001}	{p<0.001}	{p=0.661}	{p=0.057}	{p=0.391}	{p<0.001}
In-person	0.388 (0.019)	5.215 (1.129)	2.677 (0.826)	0.029 (0.055)	0.022 (0.014)	0.036 (0.029)	0.053 (0.018)
	[0.351, 0.424]	[3.002, 7.428]	[1.059, 4.295]	[-0.079, 0.137]	[-0.005, 0.048]	[-0.020, 0.092]	[0.018, 0.087]
	{p<0.001}	{p<0.001}	$\{p=0.001\}$	{p=0.593}	{p=0.106}	{p=0.208}	{p=0.003}
Online	0.225 (0.017)	5.032 (1.417)	2.958 (1.535)	0.027 (0.084)	0.013 (0.011)	0.005 (0.069)	0.062 (0.027)
	[0.191, 0.259]	[2.254, 7.810]	[-0.050, 5.967]	[-0.137, 0.192]	[-0.010, 0.035]	[-0.130, 0.139]	[0.009, 0.115]
	{p<0.001}	{p<0.001}	{p=0.054}	{p=0.745}	{p=0.271}	{p=0.944}	{p=0.022}
$\begin{array}{l} \text{In-person} = \\ \text{Online, } \chi^2(2) \\ \text{(p-value)} \end{array}$	166.04 (<0.001)	0.05 (0.830)	0.03 (0.867)	0 (0.979)	0.33 (0.568)	0.19 (0.667)	0.23 (0.635)
Week(s) relative	0.276 (0.014)	1.720 (0.790)	0.714 (0.758)	-0.023 (0.065)	0.016 (0.017)	-0.013 (0.037)	0.045 (0.016)
Week prior	[0.249, 0.303]	[0.172, 3.268]	[-0.772, 2.200]	[-0.151, 0.104]	[-0.017, 0.049]	[-0.085, 0.059]	[0.013, 0.077]
Weeks 0-1	{p<0.001} 0.350 (0.018) [0.315, 0.386] {p<0.001}	{p=0.029} 4.736 (0.903) [2.966, 6.506] {p<0.001}	$\{p=0.346\}$ $2.734 (0.925)$ $[0.921, 4.548]$ $\{p=0.003\}$	{p=0.718} -0.025 (0.073) [-0.168, 0.119] {p=0.734}	$\{p=0.335\}$ $0.030 (0.022)$ $[-0.013, 0.073]$ $\{p=0.178\}$	{p=0.723} 0.005 (0.040) [-0.074, 0.084] {p=0.906}	{p=0.006} 0.095 (0.017) [0.062, 0.128] {p<0.001}
Weeks 2-3	0.318 (0.019)	6.975 (1.513)	3.205 (1.093)	0.008 (0.090)	0.020 (0.023)	0.019 (0.044)	0.054 (0.020)
	[0.281, 0.354]	[4.009, 9.940]	[1.062, 5.348]	[-0.168, 0.183]	[-0.025, 0.064]	[-0.068, 0.106]	[0.015, 0.093]
	{p<0.001}	{p<0.001}	{p=0.003}	{p=0.932}	{p=0.386}	{p=0.666}	{p=0.007}
Weeks 4+	0.269 (0.017)	7.139 (1.744)	2.470 (1.298)	0.005 (0.100)	0.011 (0.023)	0.004 (0.052)	-0.005 (0.017)
	[0.235, 0.303]	[3.721, 10.557]	[-0.074, 5.014]	[-0.190, 0.200]	[-0.035, 0.056]	[-0.097, 0.105]	[-0.039, 0.028]
	{p<0.001}	{p<0.001}	{p=0.057}	{p=0.960}	{p=0.646}	{p=0.941}	{p=0.755}
Equality across weeks 0-4+, $\chi^2(2)$ (p-value)	165.99 (<0.001)	23.05 (<0.001)	10.41 (0.015)	0.63 (0.889)	4.36 (0.225)	1.53 (0.677)	42.95 (<0.001)
Terciles of COVI	ID-19 exposure 0.280 (0.018)	3.887 (0.952)	2.215 (0.694)	0.092 (0.059)	0.016 (0.013)	0.064 (0.028)	0.085 (0.039)
ist terche	[0.244, 0.316]	[2.021, 5.753]	[0.854, 3.575]	[-0.023, 0.207]	[-0.010, 0.042]	[0.009, 0.119]	[0.009, 0.162]
	{p<0.001}	$\{p < 0.001\}$	$\{p=0.001\}$	{p=0.117}	{p=0.226}	{p=0.023}	$\{p=0.028\}$
2nd tercile	0.272 (0.018)	5.206 (1.266)	2.108 (1.162)	0.044 (0.082)	0.018 (0.016)	-0.012 (0.064)	0.019 (0.020)
	[0.236, 0.308]	[2.726, 7.687]	[-0.169, 4.385]	[-0.117, 0.204]	[-0.013, 0.049]	[-0.136, 0.113]	[-0.020, 0.058]
	$\{p < 0.001\}$	{p<0.001}	{p=0.070}	{p=0.592}	{p=0.263}	{p=0.854}	{p=0.351}
3rd tercile	0.381 (0.026)	5.953 (1.487)	4.303 (1.576)	-0.026 (0.072)	0.019 (0.019)	0.045 (0.037)	0.068 (0.020)
	[0.330, 0.431]	[3.039, 8.867]	[1.215, 7.392]	[-0.168, 0.116]	[-0.018, 0.055]	[-0.027, 0.118]	[0.028, 0.107]
	{p<0.001}	{p<0.001}	{p=0.006}	{p=0.724}	{p=0.315}	{p=0.218}	{p<0.001}
Equality across terciles, $\chi^2(2)$ (p-value)	52.71 (<0.001)	8.9 (0.012)	1.72 (0.424)	2.81 (0.246)	0.02 (0.991)	1.3 (0.521)	10.95 (0.004)
Terciles of colleg 1st tercile	e student share 0.193 (0.014) [0.165, 0.222] {p<0.001}	2.085 (1.480) [-0.815, 4.986] {p=0.159}	-0.077 (0.902) [-1.846, 1.691] {p=0.932}	-0.089 (0.087) [-0.260, 0.082] {p=0.306}	0.009 (0.017) [-0.024, 0.042] {p=0.608}	0.001 (0.040) [-0.076, 0.078] {p=0.980}	0.023 (0.025) [-0.026, 0.072] {p=0.351}
2nd tercile	0.287 (0.020)	2.060 (1.533)	-0.220 (1.077)	0.035 (0.081)	0.021 (0.012)	0.004 (0.072)	0.023 (0.024)
	[0.247, 0.327]	[-0.944, 5.064]	[-2.331, 1.892]	[-0.124, 0.194]	[-0.002, 0.044]	[-0.136, 0.145]	[-0.024, 0.070]
3rd tercile	{p<0.001} 0.463 (0.026) [0.411, 0.515] {p<0.001}	{p=0.179} 11.434 (1.214) [9.054, 13.813] {p<0.001}	{p=0.839} 9.018 (1.598) [5.885, 12.151] {p<0.001}	{p=0.664} 0.148 (0.070) [0.010, 0.287] {p=0.035}	$\{p=0.075\}$ $0.020 (0.021)$ $[-0.021, 0.061]$ $\{p=0.335\}$	{p=0.953} 0.077 (0.039) [0.001, 0.154] {p=0.047}	$\{p=0.331\}$ $0.126 (0.026)$ $[0.076, 0.177]$ $\{p<0.001\}$
Equality across terciles, $\chi^2(2)$ (p-value)	243.4 (<0.001)		27.48 (<0.001)	5.31 (0.070)	0.43 (0.805)	1.95 (0.376)	28.72 (<0.001)

Source—Authors' analysis of C2I data on college reopening, SafeGraph mobility data, and COVID-19 case and mortality data. Notes—Estimates are aggregated treatment effects from generalized difference-in-differences regressions for the first 28 days following reopening. "Primarily in-person" includes "Fully in-person" and "Hybrid"; "Primarily online" includes "Fully online". Exposure is the 7-day COVID-19 incidence in source counties for each college two weeks prior to reopening, weighted by the change in movement to the campus from each county. Column titles indicate the dependent variable; each panel is a separate specification. Z-statistics in parentheses following point estimates, 95% confidence intervals in square brackets, and p-values in curly brackets.