

Internet Appendix

for

“Corporate Immunity to the COVID-19 Pandemic”

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This internet appendix contains additional analyses and information about the data. Specifically, this appendix contains the following tables.

Table IA1: This table lists the sample of economies and the number of firms in each economy.

Table IA2: This table reports the analyses on how corporate debt purchases by the government affect stock price reactions to the pre-pandemic corporate debt levels and cash holdings.

Table IA3: The table reports regression results analyzing how stock prices respond to the COVID-19 pandemic as functions of pre-pandemic corporate characteristics, while measuring COVID-19 exposure based on the change in cases per capita.

Table IA1 Sample economies and the number of firms in each economy

This table lists the sample of economies and the number of firms in each economy.

Country ISO	Country name	# firms	#observations
AE	United Arab Emirates	16	336
AR	Argentina	51	1071
AT	Austria	27	567
AU	Australia	355	7443
BE	Belgium	45	945
BH	Bahrain	2	34
BR	Brazil	89	1869
CA	Canada	303	6357
CH	Switzerland	113	2373
CL	Chile	40	839
CN	China	314	6582
CO	Colombia	21	436
CY	Cyprus	2	42
CZ	Czech Republic	5	105
DE	Germany	177	3717
DK	Denmark	41	861
EG	Egypt	9	180
ES	Spain	67	1407
FI	Finland	37	777
FR	France	154	3226
GB	United Kingdom	430	9027
GR	Greece	25	525
HK	Hong Kong	205	4304
HU	Hungary	5	105
ID	Indonesia	42	882
IE	Ireland	17	357
IL	Israel	17	353
IN	India	112	2346
IT	Italy	95	1995
JO	Jordan	1	21
JP	Japan	438	9197
KE	Kenya	1	21

KR	South Korea	130	2727
KW	Kuwait	11	231
LK	Sri Lanka	1	21
LU	Luxembourg	6	126
MA	Morocco	3	63
MX	Mexico	48	1008
MY	Malaysia	59	1239
NG	Nigeria	1	21
NL	Netherlands	57	1197
NO	Norway	65	1365
NZ	New Zealand	55	1155
OM	Oman	10	210
PE	Peru	24	497
PH	Philippines	25	525
PK	Pakistan	5	105
PL	Poland	44	924
PT	Portugal	15	315
QA	Qatar	15	315
RO	Romania	2	42
RU	Russia	38	798
SA	Saudi Arabia	29	580
SE	Sweden	131	2751
SG	Singapore	44	924
SI	Slovenia	1	21
TH	Thailand	38	798
TR	Turkey	56	1176
UG	Uganda	2	42
US	United States	2453	51454
ZA	South Africa	120	2519
Total		6744	141449

Table IA2 Corporate characteristics, corporate debt purchase

This table reports the analyses on how corporate debt purchases by the government affect stock price reactions to the pre-pandemic corporate debt levels and cash holdings. Variables are defined in the main text and tables. We include firm, industry by week, and economy by week fixed effects in all columns. Robust standard errors clustered at the economy level are reported in parentheses. ***, **, * denote significance levels at 1%, 5% and 10% respectively.

	Weekly stock return		
	(1)	(2)	(3)
Firm size * COVID19	0.0850** (0.0408)	0.0836** (0.0411)	0.0841** (0.0410)
Leverage * COVID19	-1.458*** (0.407)	-1.238*** (0.278)	-1.405*** (0.377)
Cash * COVID19	0.920** (0.426)	1.235** (0.597)	1.180** (0.567)
ROA * COVID19	1.741*** (0.338)	1.718*** (0.337)	1.705*** (0.340)
Leverage * COVID19 * Corporate debt purchase (dummy)	1.786*** (0.608)		1.416*** (0.524)
Leverage * Corporate debt purchase (dummy)	-0.587 (0.390)		-0.368 (0.382)
Cash * COVID19 * Corporate debt purchase (dummy)		-2.228*** (0.662)	-1.820*** (0.541)
Cash * Corporate debt purchase (dummy)		1.162** (0.457)	1.052** (0.433)
Firm FE	Y	Y	Y
Industry-time FE	Y	Y	Y
Economy-time FE	Y	Y	Y
Observations	126,711	126,711	126,711
Adjusted R-squared	0.504	0.504	0.504
# of firms	6,041	6,041	6,041

Table IA3 Corporate characteristics and stock returns in response to COVID-19, using $\ln(\Delta\text{Cases per capita})$

The table reports regression results analyzing how stock prices respond to the COVID-19 pandemic as functions of pre-pandemic corporate characteristics, while measuring COVID-19 exposure based on the change in cases per capita. In particular, *COVID19* represents $\ln(\Delta\text{Cases per capita})$, which equals the log of one plus the number of new cases divided by population (in million) in an economy in a week. The dependent variable is the weekly stock return of each firm. The analyses cover the period of the first quarter of 2020. Robust standard errors clustered at the economy level are reported in parentheses. ***, **, * denote significance levels at 1%, 5% and 10% respectively.

	Weekly stock return									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
COVID19	-0.181 (0.147)									
Firm size * COVID19		0.0193*** (0.00587)	0.0242*** (0.00510)	0.0182*** (0.00524)	0.0173*** (0.00619)	0.0206** (0.00831)	0.0196*** (0.00612)	0.0134** (0.00661)	0.0145** (0.00662)	0.0194** (0.00851)
Leverage * COVID19		-0.251*** (0.0278)	-0.266*** (0.0489)	-0.234*** (0.0293)	-0.249*** (0.0273)	-0.248*** (0.0273)	-0.250*** (0.0276)	-0.238*** (0.0284)	-0.241*** (0.0286)	-0.216*** (0.0275)
Cash * COVID19		0.380*** (0.0729)	0.520*** (0.0731)	0.387*** (0.0680)	0.369*** (0.0645)	0.382*** (0.0735)	0.386*** (0.0744)	0.417*** (0.0751)	0.413*** (0.0743)	0.401*** (0.0603)
ROA * COVID19		0.154** (0.0581)	0.140 (0.131)	0.132** (0.0520)	0.140*** (0.0511)	0.139** (0.0545)	0.151** (0.0572)	0.177*** (0.0615)	0.176*** (0.0610)	0.130** (0.0539)
Undrawn Credit * COVID19			0.245*** (0.0744)							
Maturing Debt * COVID19			-0.203*** (0.0309)							
Suppliers' exposure				-0.156*** (0.0388)						-0.0662 (0.0523)
Customers' exposure					-0.292*** (0.0546)					-0.241*** (0.0578)
CSR score * COVID19						-0.191*** (0.0684)				-0.255*** (0.0716)
Social norms * CSR score * COVID19							0.245*** (0.0821)			0.283*** (0.0870)
# Antitakeover Devices * COVID19							-0.00429* (0.00256)			0.00236 (0.00318)
Individual/Family* COVID19								0.118*** (0.0276)	0.118*** (0.0276)	0.101*** (0.0272)

Bank and Other FI* COVID19									0.0552	0.0563	0.0652
									(0.0800)	(0.0803)	(0.0820)
Corporation* COVID19									0.0610**	0.0634**	0.0788**
									(0.0301)	(0.0300)	(0.0339)
Government* COVID19									0.0492	0.0514	0.0937**
									(0.0382)	(0.0382)	(0.0426)
Hedge Fund * COVID19									-0.601***	-0.599***	-0.534***
									(0.141)	(0.140)	(0.158)
Other AMC * COVID19									-0.127*	-0.127*	-0.0845
									(0.0725)	(0.0724)	(0.115)
Management Ownership * COVID19									-0.116		
									(0.0847)		
Management Ownership (Low) * COVID19										4.095***	4.723***
										(1.203)	(0.904)
Management Ownership (High) * COVID19										-0.103	-0.0635
										(0.0862)	(0.0690)
Firm FE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Industry-time FE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Economy-time FE	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Observations	87,671	78,532	49,504	68,977	75,516	76,270	78,519	75,829	75,829	63,817	
Adjusted R-squared	0.453	0.519	0.550	0.521	0.525	0.518	0.519	0.521	0.521	0.529	
# of firms	6,744	6,041	3,808	5,306	5,809	5,867	6,040	5,833	5,833	4,909	