

The role of social capital on Covid-19 deaths

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Supplementary Material 1

Table S1. Cumulative Covid-19 deaths of 37 countries (as of October 5, 2020)

Country	Covid-19 deaths	Country	Covid-19 deaths	Country	Covid-19 deaths
Thailand	58	Hungary	642	Maine	138
Malaysia	128	Poland	2203	Maryland	3861
Singapore	27	Czech	465	Massachusetts	9260
Vietnam	35	Romania	4185	Michigan	6955
Philippines	4630	Sri Lanka	13	Minnesota	1994
Venezuela	494	USA	197001	Mississippi	2780
Chile	12013	Alabama	2401	Missouri	1782
Colombia	22924	Alaska	44	Montana	143
South Africa	15499	Arizona	5409	Nebraska	442
Myanmar	32	Arkansas	1166	Nevada	1506
Kazakhstan	1634	California	14812	New Hampshire	438
Mongolia	0	Colorado	2006	New Jersey	16057
Egypt	5661	Connecticut	4488	New Mexico	836
Australia	816	Delaware	619	New York	33070
Germany	9356	Florida	13086	North Carolina	3180
UK	41726	Georgia	6474	North Dakota	184
France	30958	Hawaii	107	Ohio	4580
Spain	29848	Iowa	1250	Oklahoma	930
Italy	35624	Idaho	434	Oregon	521
Sweden	5846	Illinois	8624	Pennsylvania	7893
Netherland	6296	Indiana	3478	Rhode Island	1085
Greece	310	Kansas	582	South Carolina	3158
Canada	9217	Kentucky	1093	South Dakota	193
Turkey	7119	Louisiana	5313	Tennessee	2164

Texas	14826	Gansu	2	Goa	327
Utah	437	Tibet	0	Gujarat	3270
Vermont	58	Macao	0	Haryana	1069
Virginia	2918	Jiangxi	1	Himachal Pradesh	98
Washington	2031	Jiangsu	0	Jammu & Kashmir	951
West Virginia	297	Guangxi Zhuang	2	Jharkhand	590
Wisconsin	1230	Shanghai	7	Karnataka	7629
Wyoming	49	Liaoning	2	Kerala	489
Washington, D.C.	619	Hebei	6	Madhya Pradesh	1877
China	4737	Shanxi	0	Maharashtra	31351
Beijing	9	Tianjin	3	Manipur	51
Jilin	2	Xinjiang Uygur	3	Meghalaya	31
Hunan	4	Hubei	4512	Mizoram	0
Sichuan	3	Shaanxi	3	Nagaland	15
Chongqing	6	Qinghai	0	Odisha	669
Fujian	1	Ningxia Hui	0	Puducherry	431
Guangdong	8	Henan	22	Punjab	2646
Guizhou	2	India	83236	Rajasthan	1293
Hainan	6	Andhra Pradesh	5177	Tamil Nadu	8618
Zhejiang	1	Arunachal Pradesh	13	Tripura	228
Heilongjiang	13	Assam	528	Uttar Pradesh	4771
Anhui	6	Bihar	855	Uttarak hand	460
Inner Mongolia	1	Chandigarh	109	West Bengal	4183
Hong Kong	103	Chhattisgarh	628	Indonesia	9460
Shandong	7	Dadra & Nagar Havel	2	Aceh	130
Yunnan	2	Delhi	4877	Bali	206

Bangka-Belitung	4	South Sumatera	322	Santa Catarina	2609
Banten	124	North Sumatera	394	Sergipe	1968
Bengkulu	31	Yogyakarta	54	São Paulo	33472
Gorontalo	69	Brazil	134935	Tocantins	840
Jakarta	1527	Acre	646	Russia	19489
Jambi	8	Alagoas	2002	Volga	872
West Java	311	Amazonas	3931	Central	7669
Central Java	1243	Amapa	688	Ural	1146
East Java	2942	Bahia	6132	North Caucasus	2062
West Kalimantan	7	Ceara	8774	East Siberian	1057
South Kalimantan	396	Distrito Federal	3022	West Siberian	1332
Central Kalimantan	127	Espírito Santo	3399	Volga-Vyatka	840
East Kalimantan	265	Goias	3995	Northwestern	3019
South Sulawesi	389	Maranhao	3622	Central Black Earth	350
Riau Island	96	Minas Gerais	6500	Far Eastern	462
Lampung	28	Mato Grosso do Sul	1133	Northern	612
Maluku	38	Mato Grosso	3178	Northern	68
North Maluku	72	Para	6421	Kaliningrad	872
West Nusa Tenggara	182	Paraiba	2670	Mexico	66329
East Nusa Tenggara	5	Pernambuco	7954	Aguascalientes	432
Papua	72	Piaui	2007	Baja California	3196
Riau	96	Paraná	4018	Baja California Sur	368
West Sulawesi	7	Rio de Janeiro	17453	Campeche	775
Central Sulawesi	12	Rio Grande do Norte	2333	Coahuila de Zaragoza	1452
South east Sulawesi	46	Rondo Nia	1289	Colima	447
North Sulawesi	167	Roraima	611	Chiapas	1005
West Sumatera	90	Rio Grande do Sul	4268	Chihuahua	1169

Distrito Federal	10725	Hokkaido	106	Shiga	7
Durango	462	Aomori	1	Kyoto	25
Guanajuato	2231	Iwate	0	Osaka	187
Guerrero	1681	Miyagi	2	Hyogo	55
Hidalgo	1658	Akita	0	Nara	9
México	8170	Yamagata	1	Wakayama	4
Michoacán de Acampo	1243	Fukushima	0	Tottori	0
Morelos	987	Ibaraki	16	Shimane	0
Nayarit	610	Tochigi	1	Okayama	1
Nuevo León	2362	Gunma	19	Hiroshima	3
Oaxaca	1260	Saitama	97	Yamaguchi	1
Puebla	3620	Chiba	67	Tokushima	6
Querétaro Arteaga	765	Tokyo	389	Kagawa	2
Quintana Roo	1416	Kanagawa	131	Ehime	6
San Luis Potosí	1227	Niigata	0	Kochi	3
Sinaloa	2840	Toyama	25	Fukuoka	88
Sonora	2678	Ishikawa	44	Saga	0
Tabasco	2620	Fukui	8	Nagasaki	3
Tamaulipas	1850	Yamanashi	5	Kumamoto	8
Tlaxcala	928	Nagano	1	Oita	2
Veracruz Llave	3739	Gifu	10	Miyazaki	1
Yucatán	1350	Shizuoka	2	Kagoshima	12
Zacatecas	521	Aichi	77	Okinawa	45
Japan	1474	Mie	4		

Note: Total number of countries are 37 and China, India, USA, Indonesia, Brazil, Russia, Mexico, and Japan were separated by provinces. Data for Covid-19 death collected from the Coronavirus COVID-19 global cases by the Johns Hopkins university website.

Table S 2. Questions and answers to measures social capital related factors

Variables	Questions	Answers
Community attachment	How attached are you to your local community?	5.Completely attached 4.Slightly attached 3.Neither 2.Slightly detached 1.Completely detached
Social trust	To be believed by people/organizations is	5.Very important 4.Somewhat important 3.Neither 2.Not very important 1.Not at all important
Family bond	Relationship with family is important or not in your life?	1.Important 0.Not important
Security	Please tell us about safety of your neighborhood.	5.Very safe 4.Moderately safe 3.Slightly dangerous 2.Very dangerous 1.Do not know

Note: Part of survey questions in 2017

Figure S1. Correlations between social capital related factors and Covid-19 deaths per km² of 8 counties by provinces and rest of other 29 countries

Supplementary figure S1 illustrated that further correlations between social capital related factors and Covid-19 deaths per km² each country by provinces. The most of results were shown similar trend with both regressions and figure 1 results.

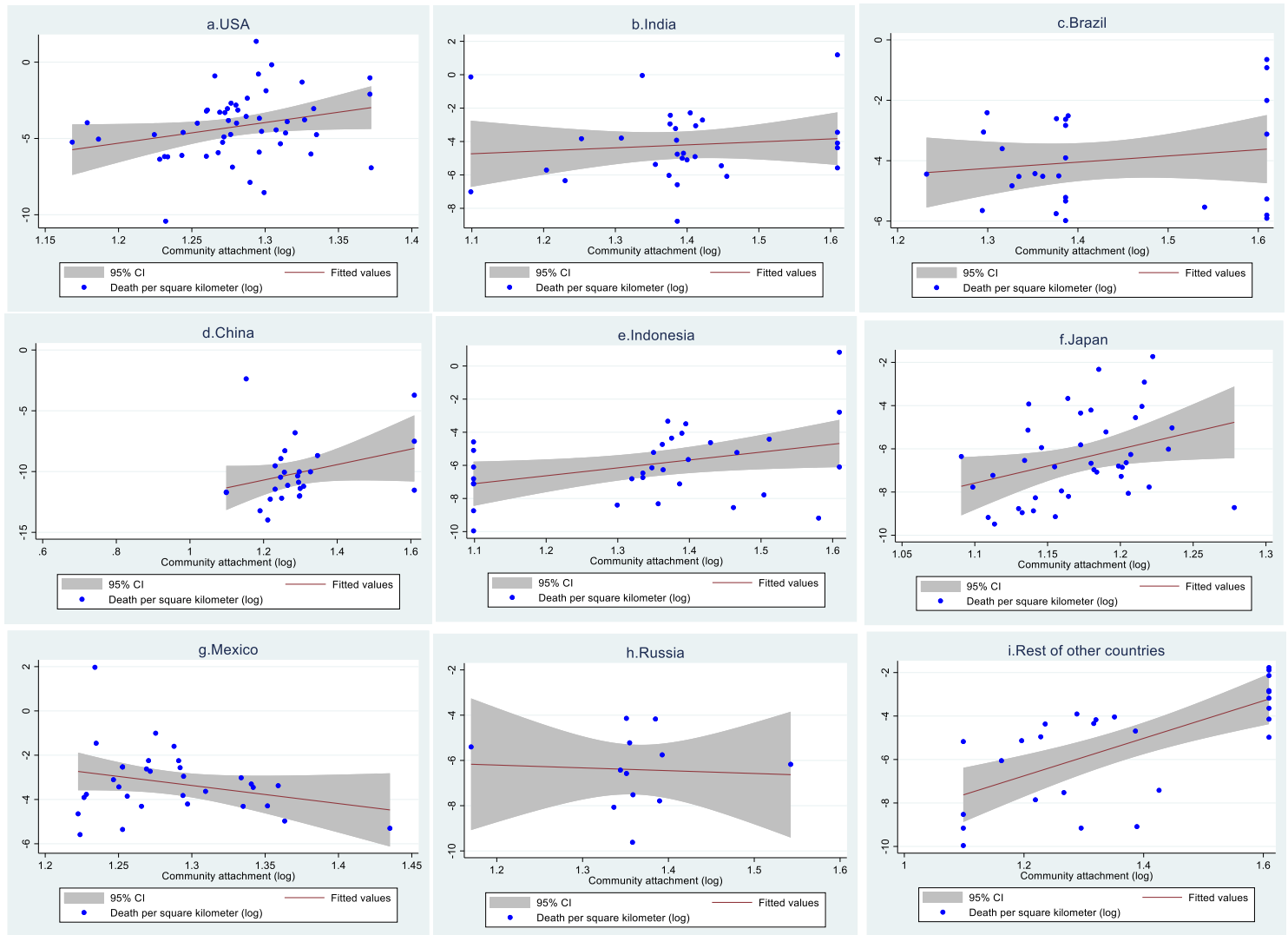


Figure S1.1. Correlations between community attachment and Covid-19 deaths per km² of 8 counties by provinces and rest of other 29 countries. Red lines are linear predictions of Covid-19 deaths per km² on average community attachment. The 95% confidence intervals of the fitted values are shown by grey areas

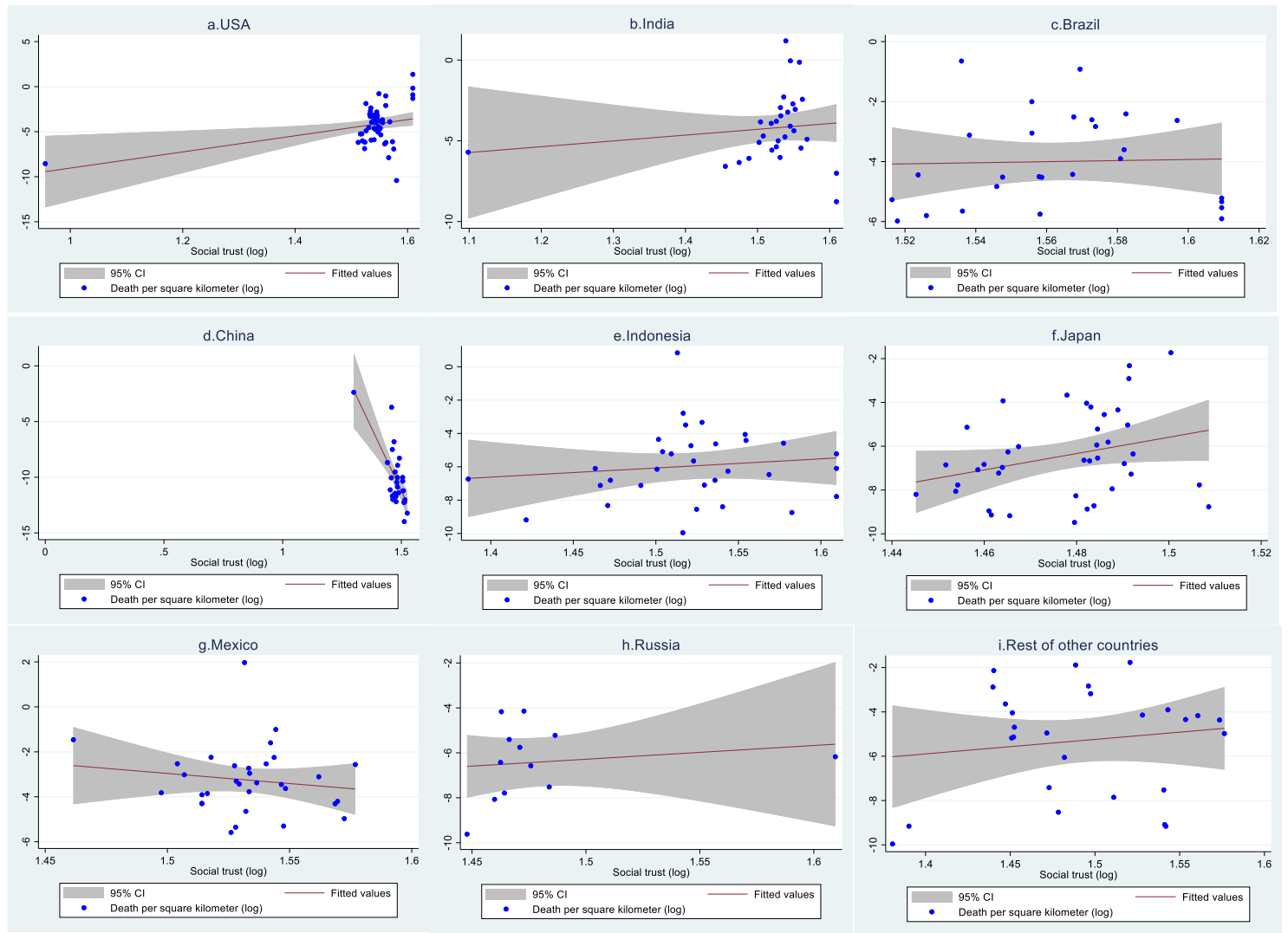


Figure S1.2. Correlations between social trust and Covid-19 deaths per km² of 8 counties by provinces and rest of other 29 countries. Red lines are linear predictions of Covid-19 deaths per km² on average social trust. The 95% confidence intervals of the fitted values are shown by grey areas

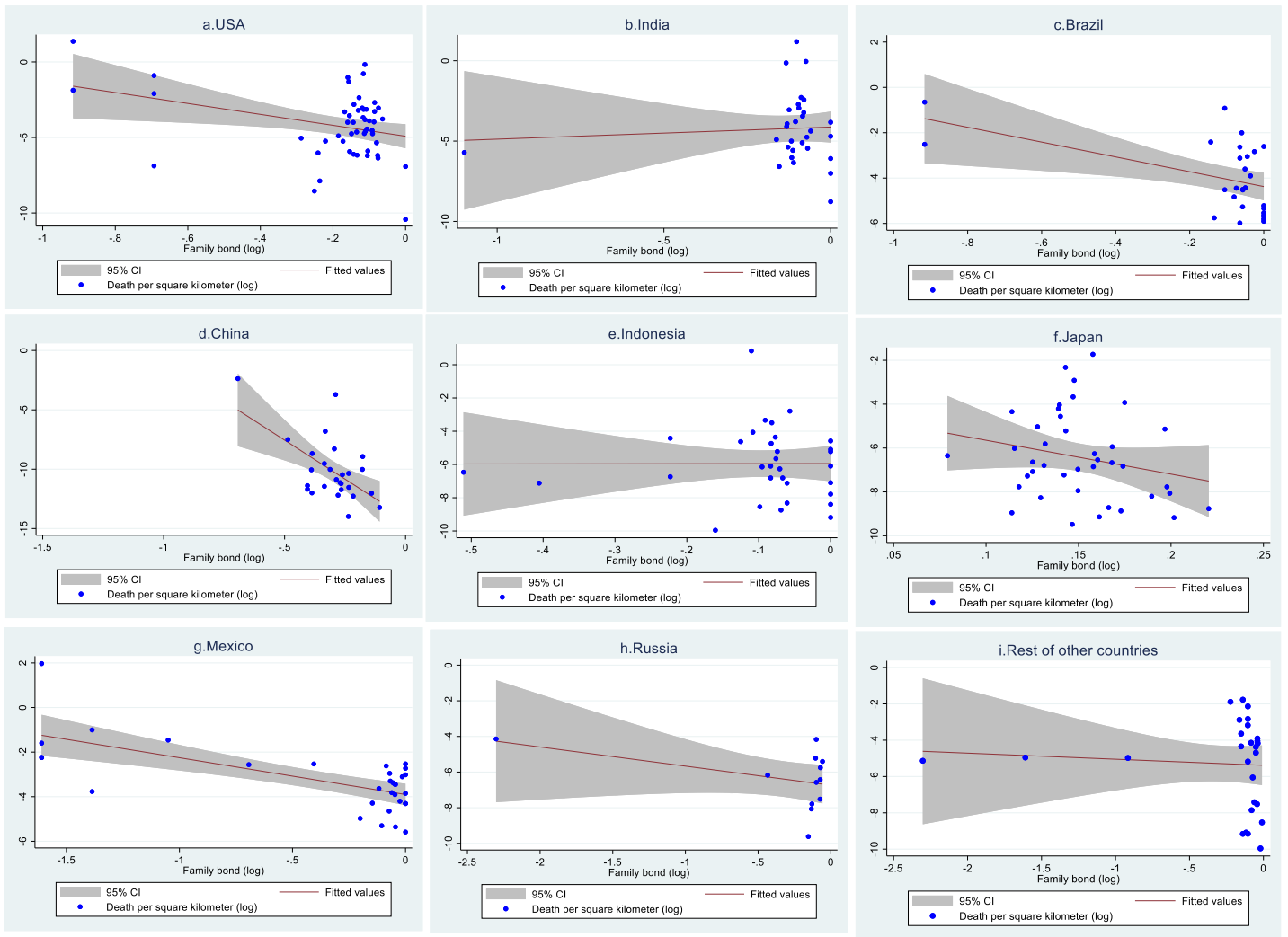


Figure S1.3. Correlations between Family bond and Covid-19 deaths per km² of 8 counties by provinces and rest of other 29 countries. Red lines are linear predictions of Covid-19 deaths per km² on average family bond. The 95% confidence intervals of the fitted values are shown by grey areas

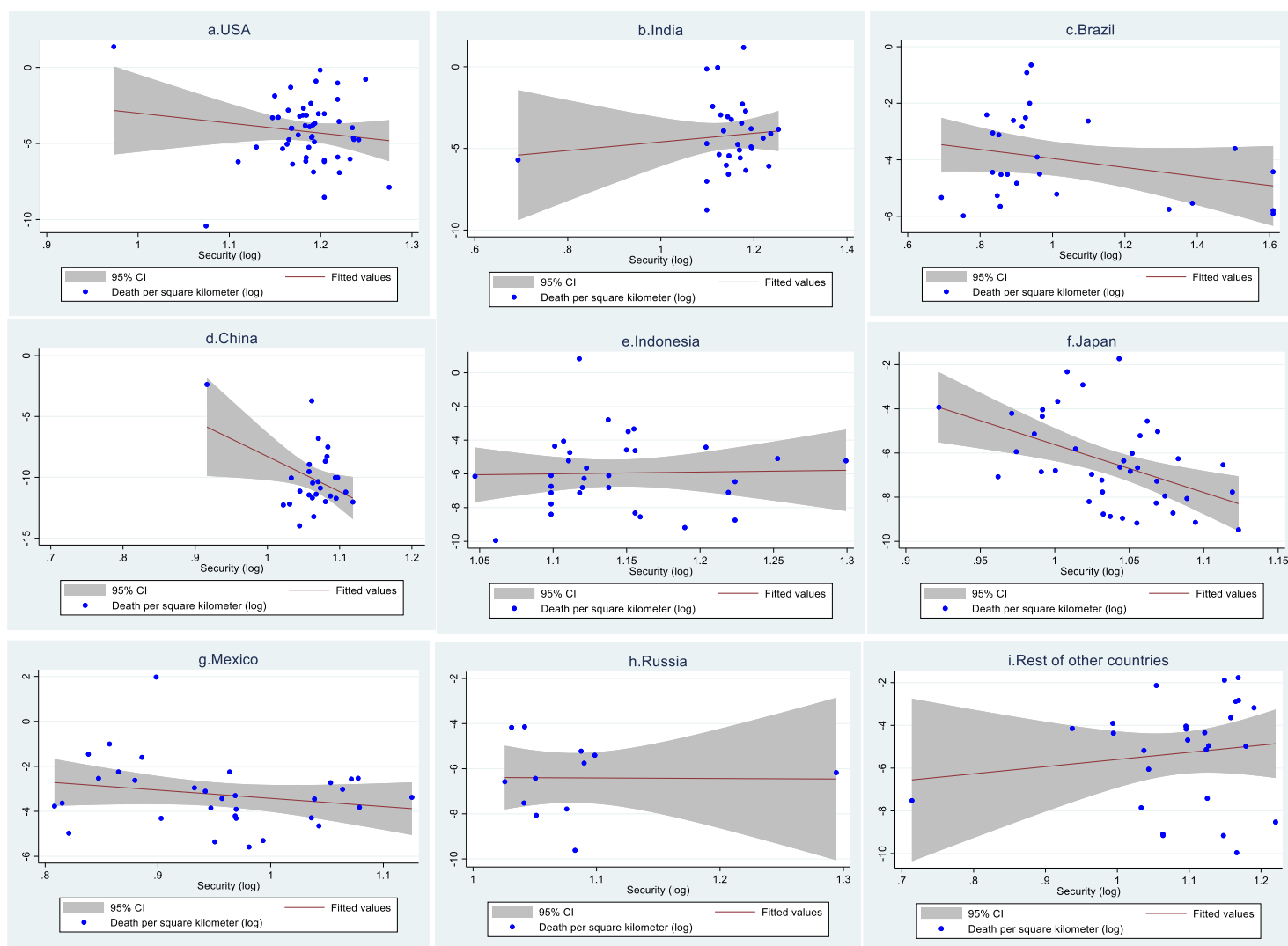


Figure S1.4.Correlations between Security and Covid-19 deaths per km² of 8 counties by provinces and rest of other 29 countries. Red lines are linear predictions of Covid-19 deaths per km² on average security. The 95% confidence intervals of the fitted values are shown by grey areas