

Environmental determinants of COVID-19 transmission across a wide climatic gradient in Chile

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Supplementary Table S2. Pearson *r*-values and significance levels (*p*-value) of correlations between COVID-19 descriptors (absolute (AIR) and relative (RIR) COVID-19 infection rates), climatic variables (MaxT = maximum air temperature, MinT = minimum air temperature, MT = mean air temperature, RH = relative humidity, AH = absolute humidity, APP = accumulated precipitation, AP = atmospheric pressure, SR = solar radiation, WS = wind speed), other environmental variables (MP2.5 = concentration particulate matter $\leq 2.5 \mu\text{m}$, MP10 = particulate matter $\leq 10 \mu\text{m}$), demographic variables (Pop = population size, Den = population density) and geographic variables (Lat = latitude, Lon = longitude, Alt = altitude). Significant correlations are highlighted in bold ($p < 0.05$).

	RIR	Lat	Lon	Alt	Pop	Den	MinT	MaxT	MT	RH	AH	APP	AP	SR	WS	MP2.5	MP10
AIR	-0.03	-0.01	0.01	0.01	0.65	0.31	0.06	0.07	0.08	-0.17	-0.09	-0.09	0.04	-0.09	0.09	-0.06	0.11
<i>p</i> -value	0.78	0.88	0.90	0.93	<0.0001	<0.0001	0.54	0.46	0.40	0.06	0.35	0.33	0.72	0.35	0.34	0.74	0.63
RIR (%)		-0.02	0.01	-0.01	-0.07	-0.03	-0.11	0.04	-0.03	-0.04	-0.06	-0.05	0.01	-0.05	-0.03	-0.25	-0.24
<i>p</i> -value		0.84	0.91	0.96	0.44	0.77	0.22	0.65	0.74	0.69	0.52	0.61	0.92	0.63	0.75	0.18	0.28
Lat			-0.25	0.47	0.31	0.12	0.50	0.53	0.65	-0.36	0.37	-0.45	-0.32	0.43	-0.15	-0.17	0.13
<i>p</i> -value			0.01	<0.0001	<0.0001	0.18	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.09	0.36	0.56
Long				0.05	-0.11	0.02	-0.30	0.00	-0.16	-0.06	-0.24	0.06	-0.05	-0.19	0.05	-0.21	0.47
<i>p</i> -value				0.56	0.25	0.80	<0.0001	0.99	0.09	0.52	0.01	0.55	0.60	0.05	0.61	0.27	0.03
Alt (m a.s.l.)					0.07	0.13	-0.01	0.23	0.16	-0.56	-0.33	-0.23	-0.63	0.25	-0.02	-0.15	0.18
<i>p</i> -value					0.45	0.15	0.91	0.01	0.08	<0.0001	<0.0001	0.01	<0.0001	0.01	0.86	0.44	0.41
Pop						0.42	0.32	0.26	0.36	-0.22	0.13	-0.22	0.02	0.11	0.03	0.16	0.48
<i>p</i> -value						<0.0001	<0.0001	<0.0001	<0.0001	0.02	0.14	0.01	0.87	0.25	0.78	0.39	0.02
Den (ind km⁻²)							0.24	0.20	0.27	-0.25	0.01	-0.15	-0.07	0.23	0.18	0.39	0.62
<i>p</i> -value							0.01	0.03	<0.0001	0.01	0.95	0.10	0.47	0.01	0.04	0.03	<0.0001
MinT (°C)								0.25	0.71	-0.06	0.63	-0.10	0.15	0.51	0.22	0.04	0.33
<i>p</i> -value								0.01	<0.0001	0.48	<0.0001	0.26	0.12	<0.0001	0.02	0.83	0.13
MaxT (°C)									0.86	-0.49	0.35	-0.55	0.00	0.23	-0.35	0.19	0.46
<i>p</i> -value									<0.0001	<0.0001	<0.0001	<0.0001	0.98	0.01	<0.0001	0.33	0.03
MT (°C)										-0.38	0.59	-0.45	0.08	0.43	-0.15	0.15	0.51
<i>p</i> -value										<0.0001	<0.0001	<0.0001	0.40	<0.0001	0.11	0.43	0.01
RH (%)											0.50	0.56	0.56	-0.44	-0.01	-0.11	-0.43
<i>p</i> -value											<0.0001	<0.0001	<0.0001	<0.0001	0.89	0.55	0.04
AH (g m⁻³)												0.05	0.49	0.04	-0.11	-0.05	-0.04
<i>p</i> -value												0.57	<0.0001	0.66	0.21	0.81	0.87
APP (mm)													0.20	-0.29	0.14	0.06	-0.42
<i>p</i> -value													0.04	<0.0001	0.12	0.74	0.04

AP (mbar)	-0.30	-0.09	0.28	-0.06
<i>p</i> -value	<0.0001	0.34	0.16	0.80
SR (Mj m ⁻²)		0.32	0.40	0.50
<i>p</i> -value		<0.0001	0.04	0.02
WS (km h ⁻¹)			0.21	0.44
<i>p</i> -value			0.27	0.04
MP2.5 (μg m ⁻³)				0.59
<i>p</i> -value				<0.0001
