Tests

Read in data

Make a table

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Another DiD table

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The source profiles for the four-factor solution are presented in Figure X. The first source was identified as dust by high percentages of crustal elements like wi-Ca, Si, and wi-Mg. The second source was constituted of non-sulfate sulfur as well as secondary inorganic ions (ammonium, nitrate, and sulfate). Non-sulfate sulfur is a tracer for primary coal combustion, while secondary inorganic ions indicate a secondary source. Since coal combustion is a major source of energy in our study area, it is likely that the second source is a mixture of primary and secondary emissions that originate from coal and other sulfurous fuel combustion.

Additionally, in Figure 1 for details. the mean source contribution of the second source is higher in outdoor than personal exposure measurements. Secondary formation occurs outdoors in the presence of sunlight, so higher outdoor concentrations compared personal exposure further support our naming the second source and sulfur secondary. The third source had high percentages of ws-Ca nd Al, which in our study region, has been found to be indicative of transported

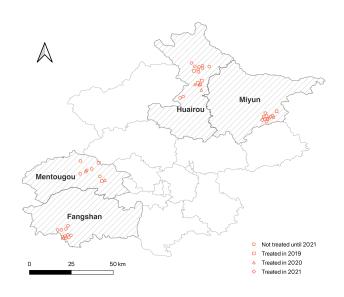


Figure 1: Google scholar metrics

dust from dust storms that can occur in the spring. While our samples were collected during winter months only, it is possible that transported dust from previous years still remained. The fourth source was characterized by high percentages of tracers for both coal (OC, wi-K, chloride, Pb) and biomass combustion (EC, ws-K). Coal and biomass combustion is common in our study setting so this source is likely a mixture of the two combustion sources.

Another example

Table 1: Policy impacts on self-reported fuel use (kg)

			Coal ^a	Biomass ^b		
Cohort	Time	ATT	(95%CI)	ATT	(95%CI)	
Average A	TT					
All	All	-2361	(-2677, -2044)	-487	(-805, -168)	
Cohort-Ti	me ATTs					
2019	2019	-2631	(-2913, -2348)	-653	(-991, -315)	
2019	2021	-2416	(-2847, -1984)	-633	(-1201, -64)	
2020	2021	-2018	(-2474, -1562)	-350	(-701, 0)	
2021	2021	-1961	(-2895, -1027)	338	(-30, 705)	

 $^{^{\}rm a}$ Joint test that all ATTs are equal: F(3, 2886)= 1.856, p= 0.135

^b Joint test that all ATTs are equal: F(3, 2886) = 5.545, p = 0.001

		Adjusted Total Effect ^a CDE Mediated					Mediated By:b		
				Indoor PM		Indoor Temp		PM + Temp	
Cohort	Time	ATT	(95%CI)	ATT	(95%CI)	ATT	(95%CI)	ATT	(95%CI)
Brachia	I SBP								
2019	2019	-2.36	(-5.23, 0.50)	-2.15	(-5.14, 0.84)	-1.69	(-4.54, 1.15)	-1.24	(-4.20, 1.72)
2019	2021	-1.51	(-4.01, 0.98)	-1.27	(-4.01, 1.47)	-0.41	(-2.92, 2.10)	0.01	(-2.71, 2.74)
2020	2021	-1.26	(-4.97, 2.45)	-0.54	(-4.25, 3.17)	0.43	(-2.86, 3.73)	1.04	(-2.59, 4.67)
2021	2021	2.39	(-0.49, 5.28)	2.68	(-0.42, 5.79)	1.95	(-1.74, 5.64)	1.88	(-1.92, 5.67)
Central	SBP								
2019	2019	-2.03	(-4.69, 0.63)	-1.75	(-4.61, 1.11)	-1.40	(-4.06, 1.27)	-0.89	(-3.73, 1.95)
2019	2021	-1.96	(-4.45, 0.52)	-1.65	(-4.40, 1.11)	-0.93	(-3.18, 1.32)	-0.44	(-2.95, 2.07)
2020	2021	-1.78	(-5.07, 1.52)	-1.00	(-4.36, 2.36)	-0.15	(-3.18, 2.88)	0.47	(-2.95, 3.89)
2021	2021	2.11	(-1.09, 5.31)	2.45	(-0.83, 5.73)	1.66	(-1.73, 5.05)	1.63	(-1.82, 5.08)
Brachia	I DBP								
2019	2019	-2.66	(-4.67, -0.65)	-2.47	(-4.70, -0.25)	-2.29	(-4.18, -0.40)	-1.94	(-4.03, 0.14)
2019	2021	-2.37	(-4.01, -0.72)	-2.10	(-4.09, -0.11)	-1.81	(-3.21, -0.41)	-1.50	(-3.28, 0.27)
2020	2021	0.20	(-1.54, 1.94)	0.31	(-1.43, 2.04)	1.14	(-0.65, 2.94)	1.23	(-0.70, 3.15)
2021	2021	0.78	(-0.48, 2.05)	1.05	(-0.59, 2.69)	0.20	(-1.21, 1.62)	0.36	(-1.34, 2.06)
Central	DBP								
2019	2019	-2.67	(-4.57, -0.78)	-2.43	(-4.58, -0.28)	-2.52	(-4.34, -0.70)	-2.13	(-4.18, -0.08)
2019	2021	-2.55	(-4.15, -0.94)	-2.20	(-4.18, -0.22)	-2.18	(-3.60, -0.76)	-1.80	(-3.58, -0.03)
2020	2021	0.11	(-1.67, 1.90)	0.22	(-1.58, 2.01)	1.07	(-0.74, 2.87)	1.16	(-0.80, 3.13)
2021	2021	1.09	(-0.06, 2.23)	1.39	(-0.16, 2.94)	0.51	(-0.80, 1.82)	0.70	(-0.94, 2.34)

Note: Results combined across 30 multiply-imputed datasets. ATT = Average Treatment Effect on the Treated, $\mathsf{CDE} = \mathsf{Controlled} \ \mathsf{Direct} \ \mathsf{Effect}, \ \mathsf{DBP} = \mathsf{Diastolic} \ \mathsf{blood} \ \mathsf{pressure}, \ \mathsf{SBP} = \mathsf{Systolic} \ \mathsf{blood} \ \mathsf{pressure}.$

^a Adjusted for age, sex, waist circumference, smoking, alcohol consumption, and use of blood pressure medication. ^b Mediators were set to the mean value for untreated participants at baseline.

Mean indoor temperature (**) 2019 2019 0.43 (.0.71, 1.57) All 2019 2020 0.52 (.0.22, 1.26) 2020 2021 0.79 (.0.1.57) 2020 2021 0.79 (.0.2.1.93) 2020 2021 0.58 (.0.66, 1.82) 2020 2021 0.58 (.0.66, 1.82) 2020 2021 0.58 (.0.66, 1.82) 2021 2021 1.06 (.0.32, 1.79) 2021 2021 1.26 (.0.36, 2.17) 2021 2021 1.5 (.0.55, 2.46) 2020 2021 1.5 (.0.55, 2.46) 2020 2021 1.5 (.0.52, 2.01) 2020 2021 1.3 (.0.1, 2.20) 2021 2021 1.24 (.0.64, 2.20) 2021 2021 2.0 (.0.83, 3.20) 2021 2021 2.0 (.0.43, 3.40) 2021 2021 2.0 (.0.43, 3.40)		Cohort	Time	ATT	(95%CI)
All	Moon indoor tomporations		Tille	ALI	(30/001)
All	ivicali illuoor telliperature	, ,	2019	0.43	(-0.71, 1.57)
2019 2021 0.79 (0,1.57) 2020 2020 0.87 (-0.2, 1.93) 2021 2021 0.58 (-0.66, 1.82) 2021 2021 1.06 (0.32, 1.79) 2021 2021 1.06 (0.32, 1.79) 2021 2021 1.26 (0.36, 2.17) 2020 2020 1.26 (0.36, 2.17) 2020 2020 0.28 (-1.45, 2.02) 2020 2021 0.13 (-1.7, 1.97) 2021 2021 1.44 (0.64, 2.25) 2021 2021 1.44 (0.64, 2.25) 2021 2021 2.07 (0.88, 3.27) 2020 2021 2.07 (0.88, 3.27) 2020 2021 2.07 (0.88, 3.27) 2020 2021 2.07 (0.83, 3.40) 2020 2021 2.07 (0.53, 3.41) 2020 2021 2.07 (0.53, 3.41) 2020 2021 2.07 (0.53, 3.41) 2020 2021 2.07 (0.53, 3.41) 2020 2021 2.07 (0.53, 3.41) 2020 2021 2.07 (0.53, 3.62) 2020 2021 2.07 (0.54, 3.39) 2020 2021 2.07 (0.64, 3.09) 2020 2021 2.07 (0.64, 3.09) 2020 2021 2.07 (0.64, 3.09) 2020 2021 2.07 (0.64, 3.09) 2020 2021 2.07 (0.54, 4.3) 2020 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2		2019	2020	0.52	(-0.22, 1.26)
	All	2019	2021	0.79	(0, 1.57)
Daytime		2020	2020	0.87	(-0.2, 1.93)
Daytime 2019 2019 0.44 (-0.96, 1.83) 2019 2020 1.26 (0.36, 2.17) 2019 2021 1.5 (0.55, 2.46) 2020 2020 0.28 (-1.45, 2.02) 2020 2021 0.13 (-1.7, 1.97) 2021 2021 1.44 (0.64, 2.25) 2019 2019 1.05 (-0.1, 2.2) 2019 2021 1.23 (-0.11, 2.58) 2019 2021 2.07 (0.88, 3.27) 2020 2020 2.71 (2.04, 3.37) 2020 2021 2.48 (1.33, 3.62) 2020 2021 2.48 (1.33, 3.62) 2021 2021 2.48 (1.03, 3.62) 2021 2021 2.48 (1.04, 3.40) 2029 2021 2.43 (0.04, 2.83) 2019 2021 2.43 (0.04, 3.34) 2021 2021 2.43 (1.46, 3.46) 2021 2.23 <t< td=""><td></td><td>2020</td><td>2021</td><td>0.58</td><td>(-0.66, 1.82)</td></t<>		2020	2021	0.58	(-0.66, 1.82)
Daytime 2019 2020 1.26 (0.36, 2.17) 2019 2021 1.5 (0.55, 2.46) 2020 2020 0.28 (-1.45, 2.02) 2020 2021 0.13 (-1.7, 1.97) 2021 2021 1.44 (0.64, 2.25) 2019 2019 1.05 (-0.1, 2.2) 2019 2020 1.23 (-0.11, 2.58) 2019 2020 1.23 (-0.11, 2.58) 2019 2021 2.07 (0.88, 3.27) 2020 2020 2.71 (2.04, 3.37) 2020 2021 2.48 (1.33, 3.62) 2020 2021 2.48 (1.33, 3.62) 2021 2021 2.03 (0.04, 2.83) 2019 2020 1.43 (0.04, 2.83) 2019 2021 2.33 (1.03, 3.62) 2020 2021 2.46 (1.46, 3.46) 2020 2021 2.46 (1.46, 3.46) 2021 2.01 <t< td=""><td></td><td>2021</td><td>2021</td><td>1.06</td><td>(0.32, 1.79)</td></t<>		2021	2021	1.06	(0.32, 1.79)
Daytime 2019 2021 1.5 (0.55, 2.46) 2020 2020 0.28 (-1.45, 2.02) 2021 2021 0.13 (-1.7, 1.97) 2021 2021 1.44 (0.64, 2.25) 2021 2021 1.44 (0.64, 2.25) 2021 2021 1.44 (0.64, 2.25) 2019 2019 1.05 (-0.1, 2.2) 2019 2020 1.23 (-0.11, 2.58) 2019 2020 2.71 (2.04, 3.37) 2020 2021 2.48 (1.33, 3.62) 2020 2021 2.48 (1.33, 3.62) 2021		2019	2019	0.44	(-0.96, 1.83)
2019 2021 1.5 (0.55, 2.46)		2019	2020	1.26	(0.36, 2.17)
	Daytime	2019	2021	1.5	(0.55, 2.46)
		2020	2020	0.28	(-1.45, 2.02)
Heating season		2020	2021	0.13	(-1.7, 1.97)
Heating season		2021	2021	1.44	(0.64, 2.25)
Heating season 2019 2021 2.07 (0.88, 3.27) 2020 2020 2.71 (2.04, 3.37) 2020 2021 2.48 (1.33, 3.62) 2021 2021 1.97 (0.53, 3.41) 2021 2021 1.97 (0.53, 3.41) 2019 2020 1.43 (0.04, 2.83) 2019 2020 1.43 (0.04, 2.83) 2019 2020 2.63 (1.87, 3.39) 2020 2021 2.46 (1.46, 3.46) 2021 2021 2.13 (0.67, 3.59) 2021 2021 2.13 (0.67, 3.59) 2019 2021 2.13 (0.67, 3.59) 2019 2021 2.42 (0.54, 4.3) 2019 2021 2.42 (0.54, 4.3) 2019 2021 4.93 (2.28, 7.58) 2020 2021 4.93 (2.28, 7.58) 2020 2021 2.04 (0.08, 4) 2021 2021 2.04 (0.08, 4) 2021 2021 2.04 (0.08, 4) 2021 2021 2.04 (0.53, 4.3) 2029 2020 2.41 (0.53, 4.3) 2019 2020 2.41 (0.53, 4.3) 2019 2020 2.41 (0.53, 4.3) 2019 2020 2.41 (0.53, 4.3) 2020 2020 4.35 (3.17, 5.53) 2020 2020 2020 4.35 (3.17, 5.53) 2020		2019	2019	1.05	(-0.1, 2.2)
2019 2021 2.07 (0.88, 3.27)		2019	2020	1.23	(-0.11, 2.58)
2020 2021 2.48 (1.33, 3.62)	Heating season	2019	2021	2.07	(0.88, 3.27)
Daytime heating season 2021 2021 1.97 (0.53, 3.41)		2020	2020	2.71	(2.04, 3.37)
Daytime heating season 2019 2019 0.8 (-0.48, 2.09) 2019 2020 1.43 (0.04, 2.83) 2019 2021 2.33 (1.03, 3.62) 2020 2020 2.63 (1.87, 3.39) 2020 2021 2.46 (1.46, 3.46) 2021 2021 2.13 (0.67, 3.59) 2019 2021 2.13 (0.67, 3.59) 2019 201		2020	2021	2.48	(1.33, 3.62)
Daytime heating season 2019 2020 1.43 (0.04, 2.83)		2021	2021	1.97	(0.53, 3.41)
Daytime heating season 2019 2021 2.33 (1.03, 3.62)		2019	2019	0.8	(-0.48, 2.09)
2019 2021 2.33 (1.03, 3.62)		2019	2020	1.43	(0.04, 2.83)
2020 2021 2.46 (1.46, 3.46) 2021 2021 2.13 (0.67, 3.59)	Daytime heating season	2019	2021	2.33	(1.03, 3.62)
Minimum indoor temperature (°C) 2019 2019 1.96 (0.43, 3.48) 2019 2020 2.42 (0.54, 4.3) 2019 2021 4.93 (2.28, 7.58) 2020 2020 5 (3.22, 6.79) 2020 2021 6.87 (4.35, 9.39) 2021 2021 2.04 (0.08, 4) 2019 2020 2.41 (0.53, 4.3) 2019 2020 2.41 (0.53, 4.3) 2019 2020 2.41 (0.53, 4.3) 2019 2020 2.41 (0.53, 4.3) 2019 2020 4.35 (3.17, 5.53) 2020 2020 4.35 (3.17, 5.53)		2020	2020	2.63	(1.87, 3.39)
Minimum indoor temperature (°C) 2019 2019 1.96 (0.43, 3.48) 2019 2020 2.42 (0.54, 4.3) 2019 2021 4.93 (2.28, 7.58) 2020 2020 5 (3.22, 6.79) 2020 2021 6.87 (4.35, 9.39) 2021 2021 2.04 (0.08, 4) 2019 2019 1.94 (0.42, 3.47) 2019 2020 2.41 (0.53, 4.3) 2019 2021 5.34 (2.66, 8.02) 2020 2020 4.35 (3.17, 5.53) 2020 2020 4.35 (3.73, 8.81)		2020	2021	2.46	(1.46, 3.46)
All 2019 2019 1.96 (0.43, 3.48) 2019 2020 2.42 (0.54, 4.3) 2019 2021 4.93 (2.28, 7.58) 2020 2020 5 (3.22, 6.79) 2020 2021 6.87 (4.35, 9.39) 2021 2021 2.04 (0.08, 4) 2019 2019 1.94 (0.42, 3.47) 2019 2020 2.41 (0.53, 4.3) 2019 2020 4.35 (3.17, 5.53) 2020 2020 4.35 (3.17, 5.53)		2021	2021	2.13	(0.67, 3.59)
All	Minimum indoor tempera	ture (°C)			
All 2019 2021 4.93 (2.28, 7.58) 2020 2020 5 (3.22, 6.79) 2020 2021 6.87 (4.35, 9.39) 2021 2021 2.04 (0.08, 4) 2019 2019 1.94 (0.42, 3.47) 2019 2020 2.41 (0.53, 4.3) 2019 2021 5.34 (2.66, 8.02) 2020 2020 4.35 (3.17, 5.53) 2020 2020 4.35 (3.73, 8.81)		2019	2019	1.96	(0.43, 3.48)
Heating season 2019 2021 4.93 (2.28, 7.58)	ΔII	2019	2020	2.42	(0.54, 4.3)
Heating season	All	2019	2021	4.93	(2.28, 7.58)
Heating season 2021 2021 2.04 (0.08, 4) 2019 2019 1.94 (0.42, 3.47) 2019 2020 2.41 (0.53, 4.3) 2019 2021 5.34 (2.66, 8.02) 2020 2020 4.35 (3.17, 5.53) 2020 2021 6.27 (3.73, 8.81)		2020	2020	5	(3.22, 6.79)
Heating season		2020	2021	6.87	(4.35, 9.39)
Heating season		2021	2021	2.04	(0.08, 4)
Heating season 2019 2021 5.34 (2.66, 8.02) 2020 2020 4.35 (3.17, 5.53) 2020 2021 6.27 (3.73, 8.81)		2019	2019	1.94	(0.42, 3.47)
2019 2021 5.34 (2.66, 8.02) 2020 2020 4.35 (3.17, 5.53) 2020 2021 6.27 (3.73, 8.81)	11	2019	2020	2.41	(0.53, 4.3)
2020 2021 6.27 (3.73, 8.81)	Heating season	2019	2021	5.34	(2.66, 8.02)
-4		2020	2020	4.35	(3.17, 5.53)
2021 2021 2.23 (0.26, 4.21)		2020	2021	6.27	(3.73, 8.81)
		2021	2021	2.23	(0.26, 4.21)

2019 — 2020 — 2021 Daytime 2019 — 2020 —	2019 2020 2021 2020 2021 2021 2021	1.77 2.29 2.36 0.64	(95%CI) (0.66, 2.88) (0.51, 4.07) (0.54, 4.17)	p-value	0.43 0.52 0.79	(95%CI) (-0.71, 1.57) (-0.22, 1.26)	p-value	ATT 1.96	(95%CI) (0.43, 3.48)	p-value
2019 — 2020 — 2021 Daytime 2019 — 2020 —	2020 2021 2020 2021 2021	2.29	(0.51, 4.07)		0.52			1.96	(0.43, 3.48)	
2019 — 2020 — 2021 Daytime 2019 — 2020 —	2020 2021 2020 2021 2021	2.29	(0.51, 4.07)		0.52			1.96	(0.43, 3.48)	
2020 2021 Daytime 2019 2020	2021 2020 2021 2021	2.36	,			(-0.22, 1.26)			(31.12, 31.13)	
2020 2021 Daytime 2019 2020	2020 2021 2021	2.36	,		0.79	, -,		2.42	(0.54, 4.3)	
2020	2021 2021		(0.54.4.17)			(0, 1.57)		4.93	(2.28, 7.58)	
2021 Daytime 2019 — 2020 —	2021		(0.54.4.17)		0.87	(-0.2, 1.93)		5.00	(3.22, 6.79)	
Daytime 2019 — 2020 —		0.64	(0.01, 1.11)		0.58	(-0.66, 1.82)		6.87	(4.35, 9.39)	
2019 —	2019		(-1.08, 2.35)	0.440	1.06	(0.32, 1.79)	0.320	2.04	(0.08, 4)	0.000
2019 —	2019									
2020					0.44	(-0.96, 1.83)				
2020 _	2020				1.26	(0.36, 2.17)				
2020 _	2021				1.50	(0.55, 2.46)				
	2020				0.28	(-1.45, 2.02)				
2021	2021				0.13	(-1.7, 1.97)				
	2021				1.44	(0.64, 2.25)	0.260			
Daytime h	heating	;								
2019 —	2019				0.80	(-0.48, 2.09)				
2019	2020				1.43	(0.04, 2.83)				
	2021				2.33	(1.03, 3.62)				
2020 _	2020				2.63	(1.87, 3.39)				
	2021				2.46	(1.46, 3.46)				
2021	2021				2.13	(0.67, 3.59)	0.000			
Heating s	season									
	2019				1.05	(-0.1, 2.2)		1.94	(0.42, 3.47)	
2019 —	2020				1.23	(-0.11, 2.58)		2.41	(0.53, 4.3)	
	2021				2.07	(0.88, 3.27)		5.34	(2.66, 8.02)	
2020 _	2020				2.71	(2.04, 3.37)		4.35	(3.17, 5.53)	
	2021				2.48	(1.33, 3.62)		6.27	(3.73, 8.81)	
2021										