

Supporting Information: Fine particulate matter exposure and health impacts from indoor activities

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Table S1:	Effect factors ($\mu\text{DALY}/\mu\text{g}_{\text{intake}}$), characterisation factors ($\mu\text{DALY}/\mu\text{g}_{\text{emitted}}$) and impact scores ($\mu\text{DALY}/\text{d}$) for 17 activities and 10 ventilation scenarios for small room volume
Table S2:	Effect factors ($\mu\text{DALY}/\mu\text{g}_{\text{intake}}$), characterisation factors ($\mu\text{DALY}/\mu\text{g}_{\text{emitted}}$) and impact scores ($\mu\text{DALY}/\text{d}$) for 17 activities and 10 ventilation scenarios for large room volume

Table S1 Activity	Effect factor factor ($\mu\text{DALY}/\mu\text{g}_{\text{intake}}$)									
	AC 0.2ACH	AC 0.6ACH	OA 3ACH	AO 14ACH	OB 3ACH	OB 14ACH	OD 3ACH	OD 14ACH	OA 3ACH	OA 14ACH
Candle burning (low)	31.70	39.48	40.24	39.75	30.92	30.83	43.64	44.19	33.63	32.85
Toasting/cooking electric (low)	23.07	33.79	38.70	38.64	22.49	22.68	40.72	42.67	25.94	25.35
Candle burning (medium)	20.90	31.89	38.02	38.09	20.27	20.35	40.71	42.69	23.71	23.22
Incense (low)	20.11	31.22	37.76	37.84	19.47	19.55	40.71	42.71	22.95	22.50
Gas stove	17.10	28.48	36.53	36.71	16.44	16.51	40.68	42.75	19.96	19.62
Printer (high)	15.92	27.36	35.90	36.58	15.25	15.27	40.68	42.69	18.72	18.40
Frying (low)	12.73	24.08	34.03	34.48	12.11	12.15	40.62	42.77	15.45	15.21
Grilling (low)	10.25	21.23	32.08	32.61	9.69	9.73	40.57	42.78	12.75	12.57
Smoking/Candle with eucalyptus oil diffusion (high)	7.83	17.88	29.49	30.03	7.39	7.42	40.47	42.80	9.90	9.77
Cookstove (low)	6.69	16.27	28.06	30.02	6.24	6.24	43.12	44.14	8.55	8.47
Cooking (high, with burning)	6.35	15.28	27.23	27.65	6.02	6.04	40.36	42.81	8.00	7.91
Frying/grilling (high)	4.41	10.19	22.00	22.31	4.25	4.25	39.95	42.82	5.24	5.19
Wood heater	3.30	8.73	20.11	22.18	3.04	3.22	39.64	42.45	4.45	4.56
Incense (high)	3.22	6.08	15.73	15.49	3.11	3.11	39.02	42.83	3.69	3.67
Cookstove (average)	2.95	5.40	14.12	16.52	2.85	2.85	38.61	42.68	3.38	3.36
Cookstove (high)	0.62	1.72	3.40	3.82	0.57	0.57	26.19	42.19	0.85	0.84

Activity	Characterisation factor ($\mu\text{DALY}/\mu\text{g}_{\text{emitted}}$)									
	AC 0.2ACH	AC 0.6ACH	OA 3ACH	AO 14ACH	OB 3ACH	OB 14ACH	OD 3ACH	OD 14ACH	OA 3ACH	OA 14ACH
Candle burning (low)	3.43E-3	9.62E-4	1.94E-4	1.35E-4	3.68E-3	3.67E-3	2.73E-6	3.42E-8	2.52E-3	2.50E-3
Toasting/cooking electric (low)	2.55E-3	8.27E-4	1.87E-4	1.38E-4	2.75E-3	2.72E-3	2.56E-6	5.44E-8	1.95E-3	1.93E-3
Candle burning (medium)	2.28E-3	7.82E-4	1.84E-4	1.39E-4	2.43E-3	2.43E-3	2.55E-6	4.09E-8	1.78E-3	1.77E-3
Incense (low)	2.20E-3	7.68E-4	1.84E-4	1.41E-4	2.34E-3	2.33E-3	2.55E-6	4.39E-8	1.72E-3	1.71E-3
Gas stove	1.87E-3	7.04E-4	1.78E-4	1.45E-4	1.97E-3	1.97E-3	2.55E-6	4.64E-8	1.50E-3	1.49E-3
Printer (high)	1.73E-3	6.68E-4	1.73E-4	1.27E-4	1.82E-3	1.82E-3	2.54E-6	3.46E-8	1.41E-3	1.40E-3
Frying (low)	1.39E-3	5.96E-4	1.66E-4	1.40E-4	1.45E-3	1.45E-3	2.54E-6	4.42E-8	1.16E-3	1.16E-3
Grilling (low)	1.12E-3	5.27E-4	1.57E-4	1.36E-4	1.16E-3	1.16E-3	2.54E-6	4.68E-8	9.58E-4	9.57E-4
Smoking/Candle with eucalyptus oil diffusion (high)	8.53E-4	4.45E-4	1.45E-4	1.30E-4	8.84E-4	8.83E-4	2.53E-6	4.78E-8	7.44E-4	7.44E-4
Cookstove (low)	7.26E-4	3.96E-4	1.35E-4	1.02E-4	7.79E-4	7.78E-4	2.70E-6	3.37E-8	6.44E-4	6.45E-4
Cooking (high, with burning)	6.92E-4	3.81E-4	1.34E-4	1.24E-4	7.20E-4	7.19E-4	2.53E-6	4.98E-8	6.01E-4	6.02E-4
Frying/grilling (high)	4.80E-4	2.55E-4	1.08E-4	1.04E-4	5.06E-4	5.05E-4	2.50E-6	4.86E-8	3.93E-4	3.95E-4
Wood heater	2.86E-4	2.14E-4	9.75E-5	8.08E-5	3.80E-4	4.00E-4	2.67E-6	3.89E-8	3.63E-4	3.51E-4
Incense (high)	3.51E-4	1.53E-4	7.78E-5	7.87E-5	3.71E-4	3.70E-4	2.44E-6	5.27E-8	2.77E-4	2.80E-4
Cookstove (average)	3.20E-4	1.32E-4	6.82E-5	5.75E-5	3.35E-4	3.35E-4	2.41E-6	3.45E-8	2.53E-4	2.56E-4
Cookstove (high)	6.72E-5	4.20E-5	1.65E-5	1.36E-5	6.69E-5	6.68E-5	1.64E-6	3.43E-8	6.36E-5	6.38E-5

Activity	Impact score ($\mu\text{DALY}/\text{d}$)									
	AC 0.2ACH	AC 0.6ACH	OA 3ACH	AO 14ACH	OB 3ACH	OB 14ACH	OD 3ACH	OD 14ACH	OA 3ACH	OA 14ACH
Candle burning (low)	8.24E+0	2.31E+0	4.66E-1	3.25E-1	8.84E+0	8.81E+0	6.55E-3	8.20E-5	6.06E+0	6.00E+0
Toasting/cooking electric (low)	1.68E+1	5.46E+0	1.24E+0	9.08E-1	1.81E+1	1.79E+1	1.69E-2	3.59E-4	1.29E+1	1.27E+1
Candle burning (medium)	2.02E+1	6.95E+0	1.64E+0	1.23E+0	2.16E+1	2.15E+1	2.26E-2	3.63E-4	1.58E+1	1.57E+1
Incense (low)	2.15E+1	7.52E+0	1.80E+0	1.38E+0	2.29E+1	2.29E+1	2.50E-2	4.30E-4	1.69E+1	1.68E+1
Gas stove	2.69E+1	1.01E+1	2.57E+0	2.08E+0	2.84E+1	2.84E+1	3.67E-2	6.68E-4	2.16E+1	2.15E+1
Printer (high)	2.92E+1	1.13E+1	2.93E+0	2.16E+0	3.08E+1	3.08E+1	4.31E-2	5.85E-4	2.38E+1	2.37E+1
Frying (low)	3.58E+1	1.54E+1	4.30E+0	3.61E+0	3.74E+1	3.74E+1	6.57E-2	1.14E-3	3.00E+1	2.99E+1
Grilling (low)	4.16E+1	1.96E+1	5.85E+0	5.07E+0	4.32E+1	4.31E+1	9.46E-2	1.74E-3	3.57E+1	3.56E+1
Smoking/Candle with eucalyptus oil diffusion (high)	4.86E+1	2.54E+1	8.25E+0	7.40E+0	5.04E+1	5.03E+1	1.44E-1	2.72E-3	4.24E+1	4.24E+1
Cookstove (low)	5.23E+1	2.85E+1	9.74E+0	7.37E+0	5.61E+1	5.60E+1	1.94E-1	2.43E-3	4.63E+1	4.64E+1
Cooking (high, with burning)	5.52E+1	3.04E+1	1.07E+1	9.90E+0	5.75E+1	5.73E+1	2.02E-1	3.97E-3	4.80E+1	4.80E+1
Frying/grilling (high)	7.86E+1	4.17E+1	1.78E+1	1.70E+1	8.29E+1	8.27E+1	4.10E-1	7.96E-3	6.44E+1	6.47E+1
Wood heater	6.11E+1	4.57E+1	2.08E+1	1.72E+1	8.11E+1	8.54E+1	5.71E-1	8.30E-3	7.76E+1	7.49E+1
Incense (high)	1.31E+2	5.69E+1	2.90E+1	2.93E+1	1.38E+2	1.38E+2	9.10E-1	1.96E-2	1.03E+2	1.04E+2
Cookstove (average)	1.52E+2	6.26E+1	3.23E+1	2.73E+1	1.59E+2	1.59E+2	1.14E+0	1.64E-2	1.20E+2	1.21E+2
Cookstove (high)	4.84E+2	3.02E+2	1.19E+2	9.78E+1	4.81E+2	4.81E+2	1.18E+1	2.47E-1	4.58E+2	4.59E+2

Activity	Effect factor factor ($\mu\text{DALY}/\mu\text{g}_{\text{intake}}$)									
	AC 0.2ACH	AC 0.6ACH	OA 3ACH	AO 14ACH	OB 3ACH	OB 14ACH	OD 3ACH	OD 14ACH	OA 3ACH	OA 14ACH
Candle burning (low)	40.31	40.35	40.30	40.09	39.38	39.16	44.51	43.14	39.67	37.46
Toasting/cooking electric (low)	33.59	37.25	39.58	39.97	33.06	33.27	42.55	41.98	34.27	30.85
Candle burning (medium)	31.64	36.07	39.27	39.91	31.08	31.22	42.49	41.92	32.52	28.86
Incense (low)	30.95	35.63	39.15	39.90	30.38	30.51	42.47	41.90	31.91	28.17
Gas stove	28.14	33.72	38.53	39.77	27.55	27.65	42.34	41.79	29.35	25.39
Printer (high)	26.96	32.82	38.14	39.62	26.35	26.42	42.31	41.83	28.22	24.19
Frying (low)	23.68	30.24	37.10	39.40	23.06	23.12	42.05	41.59	25.13	20.95
Grilling (low)	20.81	27.79	35.87	39.05	20.19	20.24	41.76	41.40	22.36	18.13
Smoking/Candle with eucalyptus oil diffusion (high)	17.46	24.74	34.05	38.46	16.85	16.89	41.28	41.08	19.07	14.89
Cookstove (low)	15.60	23.05	32.96	37.57	14.92	14.92	44.55	42.05	17.33	13.21
Cooking (high, with burning)	14.87	22.22	32.34	37.82	14.28	14.31	40.76	40.73	16.48	12.44
Frying/grilling (high)	9.87	16.72	27.94	35.79	9.39	9.41	39.04	39.60	11.25	8.01
Wood heater	7.01	14.72	26.23	34.10	6.58	6.91	42.73	39.21	9.56	6.68
Incense (high)	5.92	10.80	22.06	32.11	5.66	5.67	35.79	37.25	6.73	4.98
Cookstove (average)	5.21	9.31	20.42	29.90	5.01	5.01	42.78	36.65	5.84	4.46
Cookstove (high)	1.66	2.58	4.75	10.58	1.59	1.59	42.73	19.06	1.84	1.38

Activity	Characterisation factor ($\mu\text{DALY}/\mu\text{g}_{\text{emitted}}$)									
	AC 0.2ACH	AC 0.6ACH	OA 3ACH	AO 14ACH	OB 3ACH	OB 14ACH	OD 3ACH	OD 14ACH	OA 3ACH	OA 14ACH
Candle burning (low)	1.06E-3	4.01E-4	8.38E-5	1.78E-5	1.12E-3	1.12E-3	1.23E-5	7.13E-6	8.40E-4	1.37E-3
Toasting/cooking electric (low)	8.95E-4	3.70E-4	8.27E-5	1.78E-5	9.52E-4	9.50E-4	1.18E-5	6.99E-6	7.26E-4	1.13E-3
Candle burning (medium)	8.36E-4	3.58E-4	8.22E-5	1.78E-5	8.89E-4	8.90E-4	1.17E-5	7.01E-6	6.89E-4	1.05E-3
Incense (low)	8.18E-4	3.54E-4	8.21E-5	1.79E-5	8.69E-4	8.70E-4	1.17E-5	7.04E-6	6.76E-4	1.03E-3
Gas stove	7.44E-4	3.35E-4	8.11E-5	1.79E-5	7.88E-4	7.89E-4	1.17E-5	7.08E-6	6.22E-4	9.27E-4
Printer (high)	7.10E-4	3.26E-4	7.95E-5	1.76E-5	7.52E-4	7.53E-4	1.17E-5	6.94E-6	5.98E-4	8.83E-4
Frying (low)	6.25E-4	3.00E-4	7.83E-5	1.78E-5	6.58E-4	6.59E-4	1.16E-5	7.08E-6	5.32E-4	7.65E-4
Grilling (low)	5.49E-4	2.76E-4	7.58E-5	1.76E-5	5.77E-4	5.77E-4	1.15E-5	7.08E-6	4.74E-4	6.62E-4
Smoking/Candle with eucalyptus oil diffusion (high)	4.61E-4	2.46E-4	7.21E-5	1.74E-5	4.81E-4	4.81E-4	1.14E-5	7.05E-6	4.04E-4	5.44E-4
Cookstove (low)	4.18E-4	2.29E-4	6.86E-5	1.98E-5	4.35E-4	4.35E-4	1.23E-5	6.95E-6	3.67E-4	4.83E-4
Cooking (high, with burning)	3.93E-4	2.21E-4	6.86E-5	1.72E-5	4.08E-4	4.08E-4	1.12E-5	7.02E-6	3.49E-4	4.54E-4
Frying/grilling (high)	2.60E-4	1.66E-4	5.94E-5	1.63E-5	2.68E-4	2.68E-4	1.08E-5	6.86E-6	2.38E-4	2.92E-4
Wood heater	2.43E-4	1.46E-4	5.48E-5	1.81E-5	2.53E-4	2.45E-4	1.30E-5	6.56E-6	2.02E-4	2.50E-4
Incense (high)	1.56E-4	1.07E-4	4.71E-5	1.47E-5	1.61E-4	1.61E-4	9.87E-6	6.51E-6	1.43E-4	1.82E-4
Cookstove (average)	1.37E-4	9.25E-5	4.26E-5	1.58E-5	1.42E-4	1.42E-4	1.18E-5	6.08E-6	1.24E-4	1.63E-4
Cookstove (high)	4.34E-5	2.56E-5	9.91E-6	5.60E-6	4.50E-5	4.50E-5	1.18E-5	3.18E-6	3.90E-5	5.04E-5

Activity	Impact score ($\mu\text{DALY}/\text{d}$)									
	AC 0.2ACH	AC 0.6ACH	OA 3ACH	AO 14ACH	OB 3ACH	OB 14ACH	OD 3ACH	OD 14ACH	OA 3ACH	OA 14ACH
Candle burning (low)	2.55	0.96	0.20	0.04	2.70	2.68	0.03	0.02	2.02	3.28
Toasting/cooking electric (low)	5.91	2.44	0.55	0.12	6.28	6.27	0.08	0.05	4.79	7.44
Candle burning (medium)	7.43	3.18	0.73	0.16	7.89	7.91	0.10	0.06	6.12	9.36
Incense (low)	8.02	3.47	0.80	0.18	8.52	8.53	0.11	0.07	6.62	10.08
Gas stove	10.72	4.82	1.17	0.26	11.35	11.35	0.17	0.10	8.95	13.35
Printer (high)	12.02	5.51	1.34	0.30	12.72	12.74	0.20	0.12	10.11	14.94
Frying (low)	16.15	7.76	2.02	0.46	17.01	17.03	0.30	0.18	13.76	19.77
Grilling (low)	20.45	10.27	2.82	0.66	21.46	21.47	0.43	0.26	17.63	24.65
Smoking/Candle with eucalyptus oil diffusion (high)	26.27	14.00	4.11	0.99	27.42	27.42	0.65	0.40	23.02	30.98
Cookstove (low)	30.09	16.48	4.94	1.42	31.34	31.29	0.89	0.50	26.42	34.76
Cooking (high, with burning)	31.33	17.60	5.48	1.37	32.54	32.54	0.90	0.56	27.84	36.23
Frying/grilling (high)	42.61	27.19	9.73	2.67	43.87	43.87	1.76	1.12	39.02	47.88
Wood heater	51.90	31.20	11.71	3.86	54.00	52.38	2.79	1.40	43.25	53.33
Incense (high)	58.13	39.96	17.55	5.48	60.16	60.13	3.68	2.43	53.11	67.72
Cookstove (average)	64.80	43.82	20.18	7.48	67.38	67.37	5.58	2.88	58.62	77.21
Cookstove (high)	312.57	184.34	71.35	40.30	324.31	324.27	84.70	22.87	281.04	362.77