

SUPPLEMENTAL MATERIALS

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An Investigation of an Affordable Ventilation Retrofit to Improve the Indoor Air Quality in Australian Aged Care Homes

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Table S1: Instrument Specifications

Type of instrument	Parameter	Measuring range and accuracy
Testo 480	Air temperature (°C)	0 to +50°C, ±0.5°C
	Relative humidity (%)	0 to 100RH%, ±(1.8RH% + 0.7% or measured value)
	CO ₂ concentration (ppm)	0 to +10000, ±(75 ppm CO ₂ + 3% of measured value)
	Globe temperature (°C)	0 to +120°C, Class 1
	Air velocity (ms ⁻¹)	0 to +5ms ⁻¹ , ±(0.03ms ⁻¹ to 4% of measured value)
HOBO MX1102	Air temperature (°C)	±0.21°C from 0° to 50°C
	Relative humidity (%)	±2% from 20% to 80%
	CO ₂ concentration (ppm)	±50 ppm ±5% of reading at 25°C
Aerocet Handheld Particle Counter Model 531S	PM2.5	± 10%
	PM10	± 10%
TSI Dust Trak 8533 Aerosol Monitor	PM2.5	Particle size range 0.1 to 15µm
	PM10	Aerosol concentration range 0.001 to 150 mg/m ³ Resolution ±0.1% of reading or 0.001 mg/m ³ (whichever is greater)

Table S2- Descriptive statistics of CO₂ concentration across season 1 and seasons 2

Room	<i>CO₂ concentration (ppm) Season 1</i>					<i>CO₂ concentration (ppm)Season 2</i>				
	Median	Mean	Min	Max	Std Dev	Median	Mean	Min	Max	Std Dev
AC1A	517	524	362	859	61.6	499	502	330	821	64
AC1B	477	509	371	1499	127.4	467	494	381	1713	121.8
AC2A	471	487	379	1307	61.0	474	488	362	847	69.8
AC2B	472	498	360	870	80.7	481	505	366	900	84.2
AC3A	531	552	376	1058	92.4	506	541	367	1074	112.4
AC3B	472	497	360	870	80.7	507	542	348	1600	132
AC4A	521	554	376	1021	106.5	515	524	371	777	76
AC4B	561	583	371	1271	111.9	452	474	370	822	71.5
AC5A	537	547	371	986	71.8	481	502	373	843	77.4
AC5B	500	516	391	1033	72.7	484	488	319	736	59.1

Table S3- Descriptive statistics of CO₂ concentration across season 3 and seasons 4

Room	<i>CO2 concentration (ppm) Season 3</i>					<i>CO2 concentration (ppm)Season 4</i>				
	Median	Mean	Min	Max	Std Dev	Median	Mean	Min	Max	Std Dev
AC1A	505	506	332	863	64	497	508	380	948	67.2
AC1B	463	487	341	1977	115.3	461	488	391	2066	123.7
AC2A	461	479	373	818	63.7	470	477	353	667	51.3
AC2B	476	497	361	898	78.5	470	498	385	728	74
AC3A	530	553	334	1291	105.5	506	532	360	1085	100.3
AC3B	494	534	358	1310	128.4	466	504	387	1158	102
AC4A	523	533	363	821	84.1	513	525	367	1127	82.8
AC4B	441	466	370	1036	77.5	446	475	380	1656	96.2
AC5A	502	516	342	1057	75.3	509	522	382	872	73.7
AC5B	487	496	353	1014	61.1	474	488	375	830	60