

1 **Supplementary material**

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3 **Table S5** Overview of Kruskal-Wallis test results for KwaZamokuhle and eMzinoni presenting fuel use patterns, stove use and the
 4 presence and absence of smoke in the dwelling in the context of allergy sensitivity results from the conducted Phadiotop tests.

		KwaZamokuhle			eMzinoni		
		N=190			N=70		
Variable	Variable Category	Phadiatop concentration Median (IQR)	H statistic	P-value	Phadiatop concentration Median (IQR)	H statistic	P-value
Main cooking fuel	<i>Electricity</i>	n = 82 0.12 (0.30)	3.238	0.356	n = 48 0.09 (0.26)	2.380	0.3043
	<i>LPG</i>	n = 2 0.42 (0.50)			-		
	<i>Wood</i>	n = 5 0.70 (1.77)			n = 1 0.02 (0.00)		
	<i>Coal</i>	n = 101 0.09 (0.48)			n = 21 1.00 (0.43)		
	Total	190			70		
		KwaZamokuhle			eMzinoni		
		N=190			N=70		
Variable	Variable Category	Phadiatop concentration Median (IQR)	H statistic	P-value	Phadiatop concentration Median (IQR)	H statistic	P-value
Main heating fuel	<i>Electricity</i>	n = 2 0.25 (0.31)	2.933	0.569	n = 17 0.10 (0.36)	5.478	0.242
	<i>LPG</i>	n = 4 0.06 (0.40)			n = 2 0.95 (1.64)		
	<i>Wood</i>	n = 11 0.08 (0.23)			n = 1 0.04 (0.00)		
	<i>Coal</i>	n = 169			n = 49		

		0.10 (0.59)			0.08 (0.26)		
	<i>Other</i>	n = 4 0.30 (1.35)			n = 1 0.02 (0.00)		
	Total	190			70		
		KwaZamokuhle			eMzinoni		
		N=190			N=70		
Variable	Variable Category	Phadiatop concentration Median (IQR)	H statistic	P-value	Phadiatop concentration Median (IQR)	H statistic	P-value
Main lighting fuel	<i>Electricity</i>	n = 189 0.10 (0.49)	1.676	0.196	n = 69 0.08 (0.26)	0.088	0.767
	<i>LPG</i>	n = 1 0.04 (0.00)			-		
	<i>Other</i>	-			n = 1 0.11 (0.00)		
	Total	190			70		
		KwaZamokuhle			eMzinoni		
		N=190			N=70		
Variable	Variable Category	Phadiatop concentration Median (IQR)	H statistic	P-value	Phadiatop concentration Median (IQR)	H statistic	P-value
Stove use	<i>Hybrid (electric + LPG)</i>	n = 3 5.56 (6.80)	5.184	0.2690	n = 1 0.07 (0.00)	0.484	0.975
	<i>Electric</i>	n = 75 0.14 (0.48)			n = 26 0.11 (0.26)		
	<i>LPG</i>	n = 2 0.42 (0.49)			-		
	<i>Paraffin</i>	-			-		
	<i>Mbaula</i>	-			n = 1 0.08 (0.00)		
	<i>Cast iron stove</i>	n = 93			n = 39		

		0.08 (0.35)			0.07 (0.43)		
	<i>Own welded stove</i>	n = 17 0.09 (0.14)			n = 3 0.11 (1.36)		
	<i>Other</i>	-			-		
	Total	190			70		
		KwaZamokuhle			eMzinoni		
		N=190			N=70		
Variable	Variable Category	Phadiatop concentration Median (IQR)	H statisti c	P-value	Phadiatop concentration Median (IQR)	H stati stic	P- value
Stove smoke	<i>Yes</i>	n = 64 0.8 (0.21)	2.226	0.136	n = 33 0.08 (0.26)	0.0 35	0.851
	<i>No</i>	n = 126 0.12 (0.6)			n = 37 0.10 (0.20)		
	Total	190			70		