

Respiratory health symptoms among schoolchildren in relation to possible food-related risk and protective factors

Table S1. Unadjusted odds ratios of respiratory symptoms, diseases and allergies among children where * indicates the reference group.

Outcome	Risk factor	Crude Odds Ratio	Confidence Interval (95% CI)	p-value	
Wheeze	Eating chicken and/or fish regularly	1.30	0.61-2.78	0.495	
	Eating red meat regularly	0.57	0.32-1.02	0.061	
	Eating fruit regularly	1.69	0.88-3.27	0.116	
	Eating vegetables regularly	1.47	0.73-2.97	0.277	
	Sex				
		<i>Girls*</i>	1.00		
		<i>Boys</i>	1.25	0.72-2.19	0.427
	Type of house residing in				
		<i>Single family house not attached*</i>	1.00		
		<i>Single family house attached</i>	0.30	0.70-1.31	0.110
		<i>Flat</i>	0.48	0.11-2.13	0.338
		<i>Prefabricated house</i>	1.07	0.34-3.25	0.910
	ETS exposure at home		1.71	0.93-3.16	0.087
	Fuel used for cooking at home				
		<i>Electricity*</i>	1.00		
		<i>Gas</i>	1.00	0.22-4.59	1.00
		<i>Paraffin</i>	3.00	0.28-33.66	0.373
		<i>Wood</i>	-	-	-
		<i>Coal</i>	6.00	0.37-97.37	0.208
	Heating system used in the house				
	<i>Fireplace*</i>	1.00			
	<i>Gas/Paraffin heater</i>	0.72	0.40-1.31	0.283	
	<i>Wood/coal stove</i>	0.71	0.16-3.25	0.662	
	<i>Asbestos heater</i>	2.67	0.47-15.15	0.267	
Household overcrowded					
	< 3*	1.00			
	≥ 3	0.69	0.39-1.20	0.190	
Hay fever	Eating chicken and/or fish regularly	0.92	0.97-3.80	0.063	
	Eating red meat regularly	0.99	0.62-1.57	0.963	
	Eating fruit regularly	1.60	0.94-2.72	0.083	
	Eating vegetables regularly	0.93	0.55-1.58	0.797	
	Sex				
		<i>Girls*</i>	1		
		<i>Boys</i>	0.99	0.63-1.58	0.986
	Type of house residing in				
		<i>Single family house not attached*</i>	1		
		<i>Single family house attached</i>	0.62	0.24-1.54	0.303
		<i>Flat</i>	0.40	0.11-1.36	0.144
		<i>Prefabricated house</i>	1.24	0.50-3.09	0.638
	ETS exposure at home		1.00	0.58-1.75	0.987
	Fuel used for cooking at home				
		<i>Electricity*</i>	1.00		
	<i>Gas</i>	0.92	0.25-3.35	0.193	
	<i>Paraffin</i>	-	-	-	
	<i>Wood</i>	1.68	0.15-18.72	0.674	

	<i>Coal</i>	-	-	-
	Heating system used in the house			
	<i>Fireplace*</i>	1.00		
	<i>Gas/Paraffin heater</i>	1.11	0.69-1.80	0.670
	<i>Wood/coal stove</i>	2.44	0.90-6.62	0.081
	<i>Asbestos heater</i>	1.91	0.34-10.77	0.461
	Household overcrowded			
	< 3*	1.00		
	≥ 3	0.95	0.60-1.52	0.839
Bronchitis	Eating chicken and/or fish regularly	0.61	0.30-1.29	0.198
	Eating red meat regularly	2.14	1.12-4.11	0.022
	Eating fruit regularly	0.72	0.37-1.39	0.331
	Eating vegetables regularly	0.72	0.36-1.45	0.360
	Sex			
	<i>Girls*</i>	1.00		
	<i>Boys</i>	1.20	0.64-2.26	0.571
	Type of house residing in			
	<i>Single family house not attached*</i>	1.00		
	<i>Single family house attached</i>	0.42	0.96-1.80	0.241
<i>Flat</i>	0.58	0.13-2.56	0.475	
<i>Prefabricated house</i>	-	-	-	
ETS exposure at home	0.53	0.22-1.29	0.162	
Fuel used for cooking at home				
<i>Electricity*</i>	1.00			
<i>Gas</i>	0.64	0.08-5.02	0.672	
<i>Paraffin</i>	-	-	-	
<i>Wood</i>	-	-	-	
<i>Coal</i>	-	-	-	
Heating system used in the house				
<i>Fireplace*</i>	1.00			
<i>Gas/Paraffin heater</i>	2.04	1.06-3.94	0.033	
<i>Wood/coal stove</i>	1.54	0.33-7.28	0.583	
<i>Asbestos heater</i>	-	-	-	
Household overcrowded				
< 3*	1.00			
≥ 3	3.16	1.43-6.99	0.005	
Asthma	Eating chicken and/or fish regularly	1.04	0.48-2.24	0.921
	Eating red meat regularly	3.14	1.66-5.95	<0.001
	Eating fruit regularly	3.03	1.32-6.94	0.009
	Eating vegetables regularly	1.81	0.82-4.00	0.140
	Sex			
	<i>Girls*</i>	1.00		
	<i>Boys</i>	1.51	0.84-2.74	0.172
	Type of house residing in			
	<i>Single family house not attached*</i>	1.00		
	<i>Single family house attached</i>	0.54	0.16-1.83	0.322
<i>Flat</i>	0.25	0.03-1.93	0.186	
<i>Prefabricated house</i>	0.25	0.04-1.93	0.186	
ETS exposure at home	1.72	0.90-3.29	0.098	
Fuel used for cooking at home				
<i>Electricity*</i>	1.00			
<i>Gas</i>	1.98	0.53-7.35	0.308	
<i>Paraffin</i>	-	-	-	
<i>Wood</i>	-	-	-	
<i>Coal</i>	-	-	-	
Heating system used in the house				

<i>Fireplace*</i>	1.00		
<i>Gas/Paraffin heater</i>	1.79	0.96-3.35	0.068
<i>Wood/coal stove</i>	4.27	1.37-13.35	0.013
<i>Asbestos heater</i>	-	-	-
Household overcrowded			
< 3*	1.00		
≥ 3	3.81	1.74-8.35	0.001

Table S2. Adjusted odds ratios of respiratory symptoms, diseases and allergies among children where “*” indicates the reference group.

Outcome	Risk factor	Crude Odds Ratio	Confidence Interval (95% CI)	p-value	
Wheeze	Eating chicken and/or fish regularly	0.93	0.36-2.40	0.888	
	Eating red meat regularly	0.39	0.20-0.77	0.007	
	Eating fruit regularly	1.10	0.44-2.80	0.834	
	Eating vegetables regularly	1.40	0.57-3.43	0.464	
	Type of house residing in				
	<i>Single family house not attached*</i>	1.00			
	<i>Single family house attached</i>	0.24	0.05-1.23	0.087	
	<i>Flat</i>	0.36	0.08-1.79	0.215	
	<i>Prefabricated house</i>	0.89	0.27-3.01	0.858	
	ETS exposure at home	2.01	1.02-4.00	0.044	
	Heating system used in the house				
	<i>Fireplace*</i>	1.00			
	<i>Gas/Paraffin heater</i>	0.72	0.04-1.49	0.678	
	<i>Wood/coal stove</i>	0.96	0.16-4.62	0.394	
	<i>Asbestos heater</i>	3.64	0.55-24.16	0.181	
	Household overcrowded				
< 3*	1.00				
≥ 3	0.69	0.35-1.36	0.287		
Hay fever	Eating red meat regularly	0.88	0.52-1.49	0.635	
	Eating vegetables regularly	0.82	0.46-1.48	0.525	
	Type of house residing in				
	<i>Single family house not attached*</i>	1.00			
	<i>Single family house attached</i>	0.63	0.15-1.56	0.349	
	<i>Flat</i>	0.35	0.60-4.59	0.108	
	<i>Prefabricated house</i>	1.19	0.42-2.29	0.730	
	ETS exposure at home	1.03	0.58-1.85	0.895	
	Heating system used in the house				
	<i>Fireplace*</i>	1.00			
	<i>Gas/Paraffin heater</i>	1.01	0.67-1.82	0.705	
	<i>Wood/coal stove</i>	2.91	1.02-8.29	0.046	
	<i>Asbestos heater</i>	1.90	0.32-11.08	0.222	
	Household overcrowded				
	< 3*	1.00			
	≥ 3	0.79	0.45-1.37	0.349	
Bronchitis	Eating chicken and/or fish regularly	0.55	0.24-1.26	0.155	
	Eating red meat regularly	2.49	1.14-5.45	0.022	
	Eating fruit regularly	0.42	0.16-1.03	0.059	
	Eating vegetables regularly	0.76	0.32-1.84	0.547	
	Type of house residing in				
	<i>Single family house not attached*</i>	1.00			
<i>Single family house attached</i>	0.35	0.72-1.72	0.198		

	<i>Flat</i>	0.93	0.19-4.68	0.934
	<i>Prefabricated house</i>	-	-	-
	ETS exposure at home	0.50	0.19-1.28	0.149
	Heating system used in the house			
	<i>Fireplace*</i>	1.00		
	<i>Gas/Paraffin heater</i>	1.86	0.93-3.70	0.079
	<i>Wood/coal stove</i>	0.99	0.19-5.00	0.989
	<i>Asbestos heater</i>	-	-	-
	Household overcrowded			
	< 3*	1.00		
	≥ 3	3.05	1.30-7.17	0.011
Asthma	Eating chicken and/or fish regularly	0.71	0.29-1.74	0.451
	Eating red meat regularly	2.02	1.98-4.14	0.044
	Eating fruit regularly	2.11	0.73-6.13	0.169
	Eating vegetables regularly	0.81	0.30-2.16	0.674
	Type of house residing in			
	<i>Single family house not attached*</i>	1.00		
	<i>Single family house attached</i>	0.94	0.24-3.70	0.932
	<i>Flat</i>	0.52	0.06-4.32	0.548
	<i>Prefabricated house</i>	0.61	0.07-5.23	0.656
	ETS exposure at home	2.08	1.03-4.20	0.040
	Heating system used in the house			
	<i>Fireplace*</i>	1.00		
	<i>Gas/Paraffin heater</i>	1.77	0.90-3.46	0.096
	<i>Wood/coal stove</i>	2.13	0.63-7.16	0.218
<i>Asbestos heater</i>	-	-	-	
Household overcrowded				
< 3*	1.00			
≥ 3	2.27	1.93-5.51	0.005	