

<b>Common cold</b>	n	%
Never	14 542	34.0
1-2 times	22 178	51.9
3-4 times	4494	10.5
5-6 times	778	1.8
>6 times	728	1.7
<b>Influenza</b>		
Never	32 957	77.2
1-2 times	9307	21.8
3-4 times	367	0.9
5-6 times	55	0.1
>6 times	34	0.1
<b>Tonsillitis</b>		
Never	38 558	90.3
1-2 times	3702	8.7
3-4 times	351	0.8
5-6 times	70	0.2
>6 times	39	0.1
<b>Pneumonia</b>		
Never	41 585	97.3
1-2 times	1073	2.5
3 or more times	62	0.2
<b>Conjunctivitis</b>		
Never	41 139	96.3
1-2 times	1382	3.2
3-4 times	133	0.3
5-6 times	31	0.1
>6 times	35	0.1

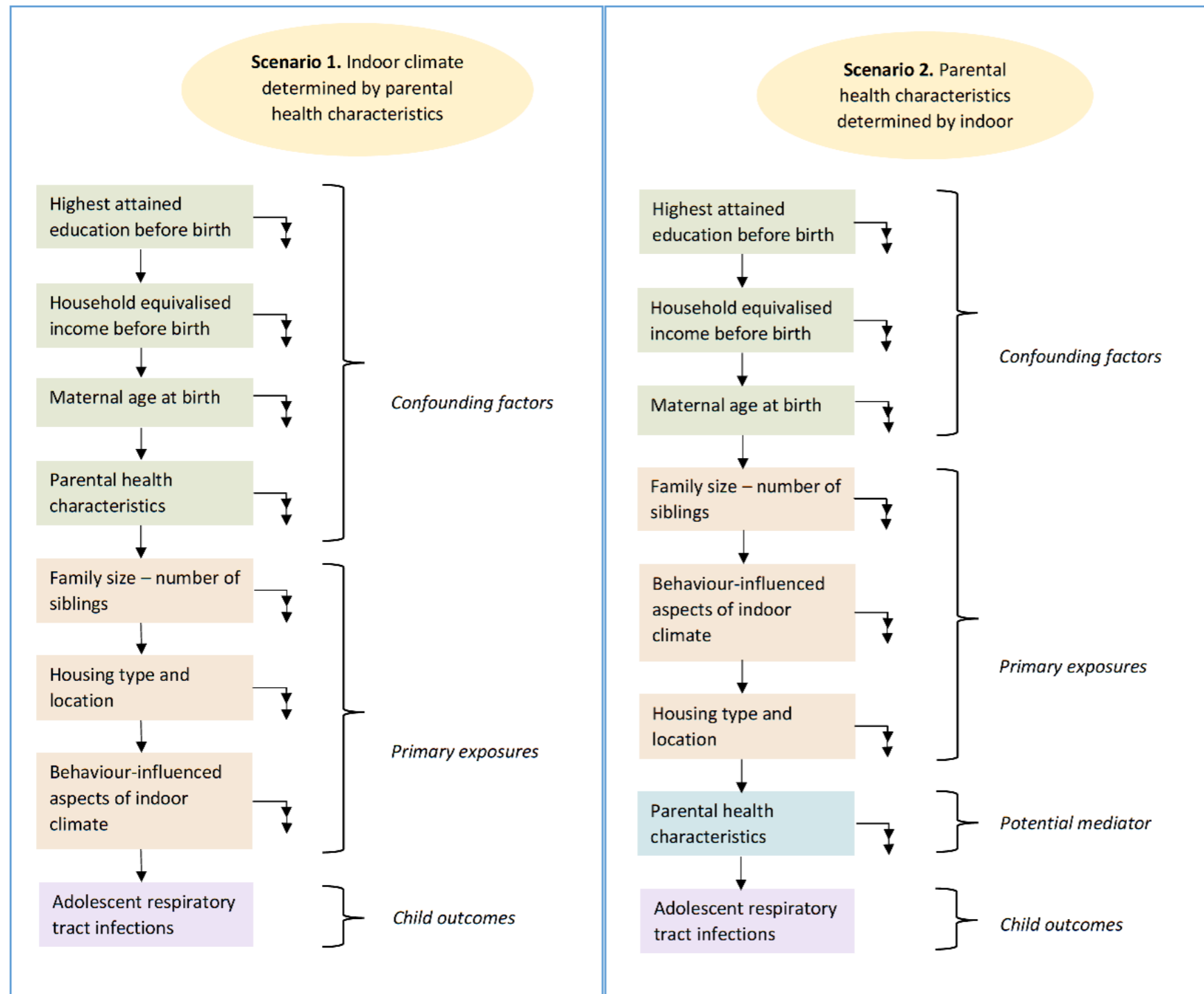
**eTable 1.** Distribution of outcomes in 42 720 adolescents

<b>Mold/dampness</b>	<b>%</b>
No	80
Yes	20
<b>Gas stove</b>	
Electric	91
Gas stove	9
<b>Summer candle-burning</b>	
Rarely	51
<1x week	30
1-2x week	12
3-4x week	5
5-6x week	1
Daily	1
<b>Winter candle-burning</b>	
Rarely	6
<1x week	12
1-2x week	16
3-4x week	21
5-6x week	20
Daily	25
<b>Fireplace usage</b>	
No fireplace	57
Rarely	13
Weekly	14
Daily	17
<b>Cats and dogs indoors</b>	
No	49
Yes	51
<b>Farmhouse</b>	
No	88
Yes, no livestock	5
yes, with livestock	7

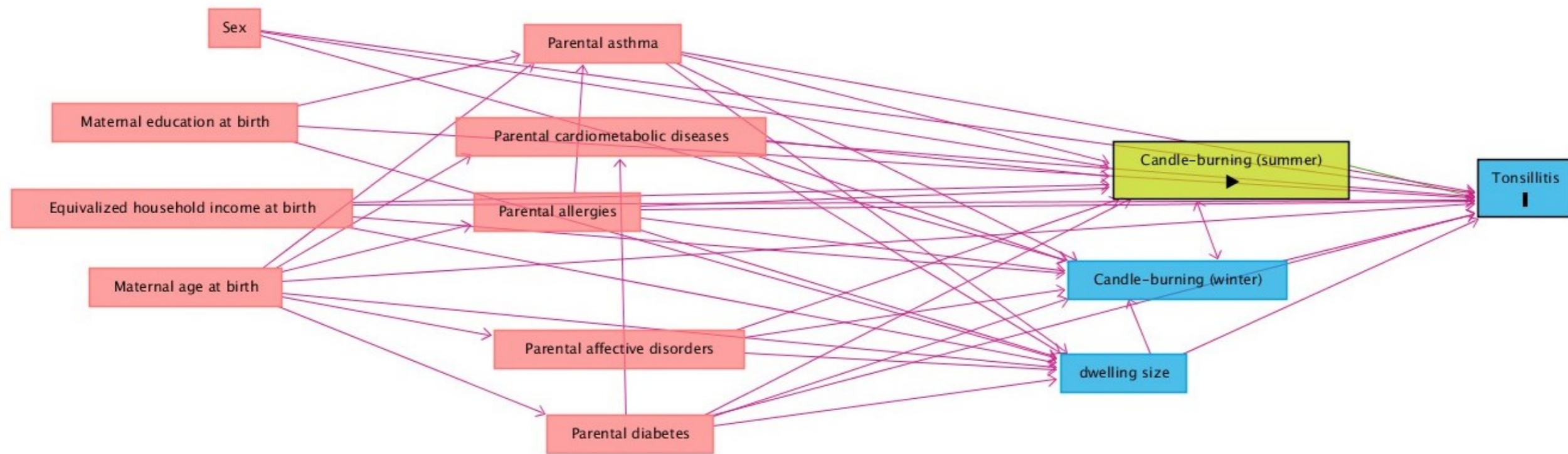
**eTable 2.** Distribution of primary exposures in 42 720 adolescents

	Common cold		Influenza		Tonsillitis		Pneumonia		Conjunctivitis	
	Crude	Adjusted	Crude	Adjusted	Crude	Adjusted	Crude	Adjusted	Crude	Adjusted
Mold/dampness										
Yes	1.11 (1.08, 1.13)	<b>1.09 (1.07, 1.12)</b>	1.12 (1.07, 1.17)	<b>1.10 (1.05, 1.15)</b>	1.22 (1.13, 1.32)	<b>1.19 (1.10, 1.28)</b>	1.07 (0.92, 1.23)	<b>1.05 (0.90, 1.21)</b>	1.22 (1.07, 1.38)	<b>1.16 (1.02, 1.32)</b>
Gas stove										
Yes	1.00 (0.97, 1.03)	<b>1.00 (0.97, 1.03)</b>	1.03 (0.97, 1.10)	<b>1.04 (0.98, 1.11)</b>	1.07 (0.96, 1.19)	<b>1.06 (0.95, 1.18)</b>	1.14 (0.93, 1.38)	<b>1.14 (0.93, 1.39)</b>	1.31 (1.11, 1.56)	<b>1.25 (1.05, 1.49)</b>
Summer candle-burning										
<1x week	1.01 (0.99, 1.03)	<b>1.03 (1.01, 1.05)</b>	1.11 (1.07, 1.16)	<b>1.13 (1.08, 1.18)</b>	1.04 (0.97, 1.12)	<b>1.06 (0.98, 1.14)</b>	0.98 (0.85, 1.12)	<b>1.02 (0.89, 1.18)</b>	1.11 (0.98, 1.26)	<b>1.15 (1.01, 1.31)</b>
1-2x week	1.01 (0.98, 1.04)	<b>1.02 (0.99, 1.05)</b>	1.17 (1.11, 1.24)	<b>1.18 (1.11, 1.26)</b>	1.18 (1.07, 1.30)	<b>1.16 (1.04, 1.30)</b>	1.06 (0.88, 1.27)	<b>1.10 (0.90, 1.34)</b>	1.08 (0.91, 1.28)	<b>1.12 (0.93, 1.35)</b>
3-4x week	1.07 (1.02, 1.11)	<b>1.08 (1.03, 1.13)</b>	1.22 (1.13, 1.33)	<b>1.21 (1.11, 1.32)</b>	1.28 (1.11, 1.46)	<b>1.23 (1.06, 1.43)</b>	1.17 (0.89, 1.53)	<b>1.18 (0.88, 1.58)</b>	1.32 (1.04, 1.67)	<b>1.36 (1.06, 1.76)</b>
5-6x week	1.02 (0.94, 1.10)	<b>1.01 (0.94, 1.09)</b>	1.48 (1.30, 1.68)	<b>1.43 (1.25, 1.63)</b>	1.40 (1.09, 1.80)	<b>1.29 (1.00, 1.67)</b>	1.00 (0.62, 1.61)	<b>0.98 (0.60, 1.60)</b>	1.31 (0.85, 1.99)	<b>1.31 (0.85, 2.02)</b>
Daily	0.99 (0.91, 1.07)	<b>1.01 (0.92, 1.09)</b>	1.19 (1.02, 1.38)	<b>1.16 (0.99, 1.35)</b>	1.51 (1.21, 1.88)	<b>1.41 (1.12, 1.78)</b>	1.06 (0.64, 1.75)	<b>1.01 (0.60, 1.70)</b>	1.08 (0.72, 1.64)	<b>1.11 (0.72, 1.70)</b>
Winter candle-burning										
<1x week	0.97 (0.92, 1.02)	<b>0.98 (0.93, 1.02)</b>	0.96 (0.87, 1.06)	<b>0.95 (0.86, 1.05)</b>	0.88 (0.75, 1.03)	<b>0.89 (0.76, 1.05)</b>	0.78 (0.58, 1.03)	<b>0.81 (0.61, 1.07)</b>	0.94 (0.72, 1.23)	<b>0.94 (0.72, 1.24)</b>
1-2x week	0.96 (0.91, 1.00)	<b>0.96 (0.91, 1.00)</b>	0.97 (0.88, 1.06)	<b>0.94 (0.85, 1.03)</b>	0.88 (0.76, 1.02)	<b>0.88 (0.76, 1.03)</b>	0.73 (0.56, 0.95)	<b>0.76 (0.58, 0.99)</b>	0.91 (0.70, 1.17)	<b>0.88 (0.68, 1.14)</b>
3-4x week	0.95 (0.91, 1.00)	<b>0.95 (0.91, 0.99)</b>	1.00 (0.91, 1.09)	<b>0.95 (0.87, 1.04)</b>	0.92 (0.80, 1.07)	<b>0.91 (0.78, 1.05)</b>	0.82 (0.64, 1.06)	<b>0.84 (0.65, 1.10)</b>	0.97 (0.75, 1.23)	<b>0.92 (0.71, 1.18)</b>
5-6x week	0.97 (0.92, 1.01)	<b>0.96 (0.91, 1.00)</b>	0.97 (0.89, 1.06)	<b>0.90 (0.82, 0.99)</b>	0.92 (0.79, 1.06)	<b>0.88 (0.75, 1.02)</b>	0.71 (0.54, 0.92)	<b>0.71 (0.54, 0.93)</b>	0.92 (0.72, 1.18)	<b>0.85 (0.66, 1.11)</b>
Daily	0.96 (0.92, 1.00)	<b>0.94 (0.90, 0.99)</b>	1.08 (0.99, 1.18)	<b>0.96 (0.88, 1.06)</b>	1.05 (0.91, 1.20)	<b>0.95 (0.82, 1.11)</b>	0.83 (0.65, 1.07)	<b>0.82 (0.63, 1.08)</b>	0.98 (0.77, 1.24)	<b>0.86 (0.67, 1.12)</b>
Fireplace usage										
Rarely	0.99 (0.95, 1.02)	<b>1.02 (0.98, 1.05)</b>	1.03 (0.97, 1.09)	<b>1.06 (0.99, 1.13)</b>	0.97 (0.86, 1.08)	<b>1.03 (0.92, 1.16)</b>	0.87 (0.70, 1.07)	<b>0.97 (0.78, 1.21)</b>	1.06 (0.88, 1.27)	<b>1.13 (0.94, 1.37)</b>
<1x week	0.95 (0.90, 1.00)	<b>1.00 (0.94, 1.05)</b>	0.86 (0.77, 0.96)	<b>0.92 (0.82, 1.03)</b>	0.91 (0.76, 1.09)	<b>1.03 (0.86, 1.23)</b>	1.04 (0.75, 1.45)	<b>1.23 (0.87, 1.73)</b>	0.85 (0.61, 1.19)	<b>0.96 (0.69, 1.36)</b>
1-2x week	0.95 (0.91, 1.00)	<b>0.99 (0.95, 1.05)</b>	0.94 (0.84, 1.05)	<b>1.00 (0.89, 1.11)</b>	0.78 (0.64, 0.94)	<b>0.88 (0.72, 1.06)</b>	0.80 (0.56, 1.13)	<b>0.94 (0.66, 1.34)</b>	0.80 (0.58, 1.10)	<b>0.90 (0.65, 1.25)</b>
3-4x week	0.94 (0.90, 0.97)	<b>0.98 (0.94, 1.02)</b>	0.92 (0.84, 1.00)	<b>0.97 (0.89, 1.06)</b>	0.96 (0.83, 1.10)	<b>1.06 (0.92, 1.22)</b>	0.77 (0.58, 1.03)	<b>0.91 (0.68, 1.22)</b>	0.84 (0.65, 1.08)	<b>0.94 (0.73, 1.22)</b>
5-6x week	0.95 (0.91, 0.99)	<b>0.99 (0.95, 1.03)</b>	0.92 (0.84, 1.01)	<b>0.97 (0.88, 1.06)</b>	0.90 (0.77, 1.06)	<b>0.99 (0.85, 1.16)</b>	0.80 (0.59, 1.09)	<b>0.94 (0.69, 1.27)</b>	0.89 (0.68, 1.16)	<b>1.00 (0.76, 1.31)</b>
Daily	0.95 (0.92, 0.97)	<b>0.98 (0.95, 1.00)</b>	0.92 (0.87, 0.97)	<b>0.95 (0.90, 1.00)</b>	0.98 (0.90, 1.07)	<b>1.05 (0.96, 1.15)</b>	0.94 (0.80, 1.11)	<b>1.05 (0.88, 1.25)</b>	0.90 (0.77, 1.05)	<b>0.98 (0.84, 1.15)</b>
Cats or dogs										
Yes	0.98 (0.96, 1.00)	<b>0.99 (0.97, 1.01)</b>	1.07 (1.03, 1.11)	<b>1.06 (1.02, 1.10)</b>	1.05 (0.98, 1.12)	<b>1.06 (0.99, 1.13)</b>	1.05 (0.93, 1.18)	<b>1.08 (0.95, 1.22)</b>	0.95 (0.86, 1.06)	<b>0.94 (0.84, 1.05)</b>
Farmhouse										
Yes, without livestock	0.96 (0.91, 1.00)	<b>1.00 (0.95, 1.04)</b>	1.00 (0.92, 1.09)	<b>1.03 (0.95, 1.13)</b>	0.85 (0.73, 0.99)	<b>0.88 (0.76, 1.03)</b>	1.11 (0.84, 1.46)	<b>1.17 (0.88, 1.55)</b>	1.16 (0.92, 1.45)	<b>1.20 (0.96, 1.51)</b>
Yes, with livestock	0.94 (0.90, 0.97)	<b>0.98 (0.94, 1.01)</b>	0.97 (0.90, 1.04)	<b>0.99 (0.92, 1.07)</b>	0.90 (0.78, 1.02)	<b>0.92 (0.80, 1.05)</b>	0.88 (0.69, 1.13)	<b>0.93 (0.72, 1.20)</b>	1.02 (0.82, 1.27)	<b>1.05 (0.83, 1.32)</b>

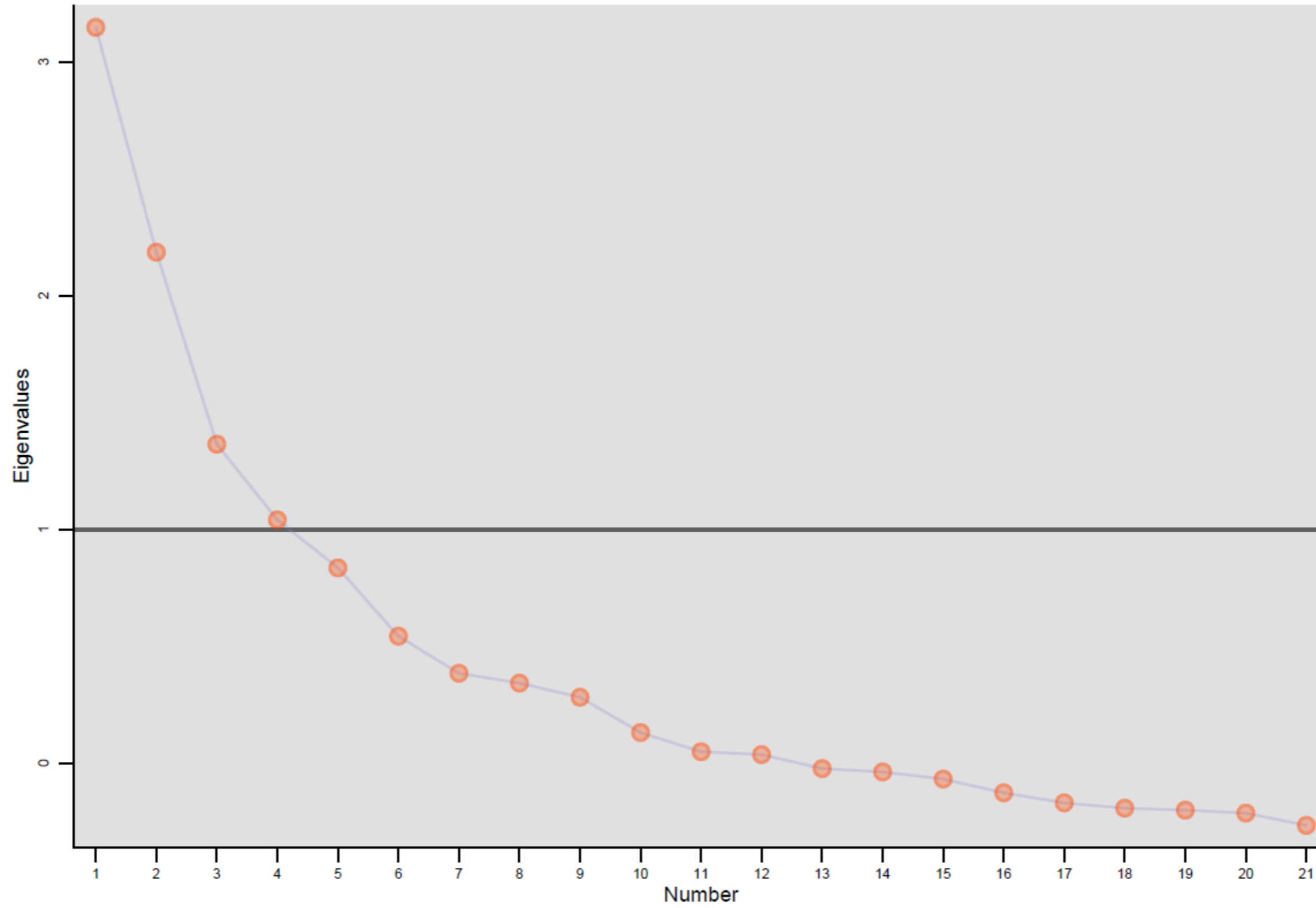
**Table 3.** Housing and indoor home environment exposures and crude and adjusted IRRs and 95 % CIs of A) common cold, B) influenza, C) tonsillitis, D) pneumonia and E) conjunctivitis in 42 720 adolescents



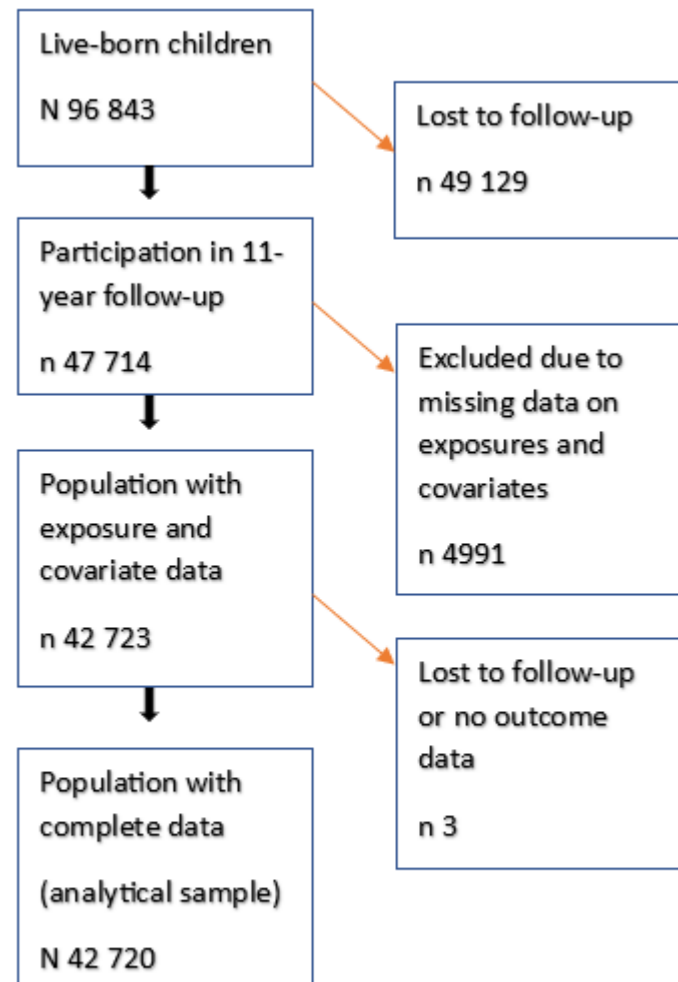
eFigure 1. Saturated directed acyclic graph



**eFigure 2.** Directed acyclic graph demonstrating model assumptions for analyses of summer candle-burning



eFigure 3. Scree plot of factor retention



eFigure 4. Flow chart of participation