

Table S1 Exposure assessment place, time and validation in the Included Studies

Exposure assessment method	Study reference	Exposure assessment place	Exposure assessment time	Exposure assessment validation
TRAP surrogates	Clark et al. (2010)	Residential address <b>(considering moving residence)</b>	Pregnancy and birth year	No validation
	Dell et al. (2014)	Residential address	Birth year and current (year of recruitment)	No validation
	English et al. (1999)	Residential address within buffer region	Current (year of recruitment)	No validation
	Hasunuma et al. (2016)	UAt home. At school for part of the population and considering mobility	At 1.5 years	No validation
	Krämer et al. (2009)	Residential address <b>(considering moving residence)</b>	Birth year	No validation
	Lindgren et al. (2013)	Residential address <b>(additional analysis with children censored when/if moving during time at risk)</b>	Birth year	No validation
	McConnell et al. (2010)	Residential and school addresses	Year of recruitment	No validation
	Mölter et al. (2014b)	Residential address at birth, 4-5 years and at 8-10 years	Birth year At 4-5 y.o. At 8-10 y.o.	No validation
	Morgenstern et al. (2007)	Residential address	Birth year	No validation

	Morgenstern et al. (2008)	Residential address	Birth year	No validation
	Oftedal et al. (2009)	Residential address	Birth year	No validation
	Patel et al. (2011)	Residential address <b>(additional analysis for non-movers)</b>	At 1 y.o. At 2 y.o. At 3 y.o.	No validation
	Ranzi et al. (2014)	Residential address	Birth year	No validation
	Shima et al. (2003)	Residential address	Year of recruitment	No validation
	Yamazaki et al. (2014)	Houses and schools	Unclear	No validation
	Zmirou et al. (2004)	Residential and daycare or school addresses <b>(considering moving residence)</b>	Before the age of 3 y.o. Lifelong	No validation
Fixed-site monitoring stations	Clark et al. (2010)	Residential address <b>(considering moving residence)</b>	Pregnancy and birth year	No validation
	Dell et al. (2014)	Residential address	Birth year, current (year of recruitment) and cumulative	No validation
	Deng et al. (2015)	Kindergarten address <b>(additional analysis for non-movers)</b>	Pregnancy and birth year	No validation
	Deng et al. (2016)	Kindergarten address	Pre-conceptional (exposure during 1 year before conception), pre-natal (exposure during the whole pregnancy), and post-natal exposure (exposure from birth to the current)	No validation

	Kim et al. (2016)	Residential address	Birth year and the year preceding the questionnaire survey	No validation
	Liu et al. (2016)	Residential address	Pregnancy year, first year, first two years, first three years, and total years since birth (from birth day to the surveyed day)	No validation
	McConnell et al. (2010)	Residential area/district	The 2003 average ambient concentrations were assigned to all children in the community (exposure at the recruitment)	No validation
	Nishimura et al. (2013)	Residential address <b>(considering moving residence)</b>	Birth year and first 3 years of life	No validation
	Shima and Adachi (2000)	School area/district	3 years' average (1991-1993) before/at recruitment (in 1992)	No validation
	Shima et al. (2002)	School area/district <b>(children had to live at their address 3 years prior to entering the first grade)</b>	10 years' average (1988-1997)	No validation
	Wang et al. (2016)	Residential address	Long-term cumulative exposure from birth until end of the study	No validation
<b>Land-use regression models</b>	Brauer et al. (2002)	Residential address <b>(additional analysis for non-movers)</b>	Birth address (long-term exposure)	BC, $R^2 = 81\%$ NO <sub>2</sub> , $R^2 = 85\%$ PM <sub>2.5</sub> , $R^2 = 73\%$
	Brauer et al. (2007)	Residential address	Birth address (long-term exposure)	As above
	Gehring et al. (2010)	Residential address <b>(additional analysis for non-movers)</b>	Birth address (long-term exposure)	As above

Brunst et al. (2015)	Addresses of all locations where the child spent 8 or more hours in an average week (e.g., home, daycare, relative's home, school etc.)	Time-weighted average (birth, birth-1, 1-2, 2-3, 3-4, 6-7, birth-4, 4-6, birth-7 y.o.)	EC, R <sup>2</sup> = 75%
Carlsten et al. (2010)	Residential address	Birth year	BC, R <sup>2</sup> = 39% - 41% NO, R <sup>2</sup> = 57% - 62% NO <sub>2</sub> , R <sup>2</sup> = 56% - 60% PM <sub>2.5</sub> , R <sup>2</sup> = 52%
Clark et al. (2010)	Residential address <b>(considering moving residence)</b>	Pregnancy and birth year	As above
Dell et al. (2014)	Residential address, daycare and school	Birth year, current (year of recruitment) and cumulative	NO <sub>2</sub> , R <sup>2</sup> = 69%
Fuertes et al. (2013)	Residential address	Birth year, at 6 y.o. and 10 y.o.	BC, R <sup>2</sup> = 91% - 97% NO <sub>2</sub> , R <sup>2</sup> = 81% - 89% PM <sub>2.5</sub> , R <sup>2</sup> = 55% - 88%
Gehring et al. (2002)	Residential address	Birth address (annual average)	BC, R <sup>2</sup> = 67% NO <sub>2</sub> , R <sup>2</sup> = 62% PM <sub>2.5</sub> , R <sup>2</sup> = 56%
Gehring et al. (2015a)	Residential address	"long-term" at the birth and current address	BC, R <sup>2</sup> = 89% NO <sub>2</sub> , R <sup>2</sup> = 81% PM <sub>2.5</sub> , R <sup>2</sup> = 61%

				<p>PM<sub>10</sub>, R<sup>2</sup> = 60%</p> <p>PM<sub>coarse</sub>, R<sup>2</sup> = 38%</p> <p>Cu PM<sub>2.5</sub>, R<sup>2</sup> = 81%</p> <p>Cu PM<sub>10</sub>, R<sup>2</sup> = 71%</p> <p>Fe PM<sub>2.5</sub>, R<sup>2</sup> = 73%</p> <p>Fe PM<sub>10</sub>, R<sup>2</sup> = 70%</p> <p>Ni PM<sub>2.5</sub>, R<sup>2</sup> = 72%</p> <p>Ni PM<sub>10</sub>, R<sup>2</sup> = 73%</p> <p>S PM<sub>2.5</sub>, R<sup>2</sup> = 27%</p> <p>S PM<sub>10</sub>, R<sup>2</sup> = 39%</p> <p>V PM<sub>2.5</sub>, R<sup>2</sup> = 63%</p> <p>V PM<sub>10</sub>, R<sup>2</sup> = 67%</p> <p>Zn PM<sub>2.5</sub>, R<sup>2</sup> = 58%</p> <p>Zn PM<sub>10</sub>, R<sup>2</sup> = 67%</p>
	Gehring et al. (2015b)	Residential address	Birth and current year (at the different follow-up visits)	<p>BC, R<sup>2</sup> = 81% - 97%</p> <p>NO<sub>2</sub>, R<sup>2</sup> = 82% - 89%</p> <p>PM<sub>2.5</sub>, R<sup>2</sup> = 67% - 88%</p> <p>PM<sub>10</sub>, R<sup>2</sup> = 68% - 83%</p>

				PM <sub>coarse</sub> , R <sup>2</sup> = 51% - 81%
Kerkhof et al. (2010)	Residential address	Birth year		BC, R <sup>2</sup> = 81% NO <sub>2</sub> , R <sup>2</sup> = 85% PM <sub>2.5</sub> , R <sup>2</sup> = 73%
Krämer et al. (2009)	Residential address <b>(considering moving residence)</b>	Birth year, at 6 y.o.		BC, R <sup>2</sup> = 65% NO <sub>2</sub> , R <sup>2</sup> = 81%
LeMasters et al. (2015)	Addresses of all locations where the child spent 8 or more hours in an average week from birth to age 7 y.o. (e.g., home, daycare, relative's home, school)	Time-weighted average		EC, R <sup>2</sup> = 74%
MacIntyre et al. (2014)	Residential address	Birth year		Differs by cohort, all included in this table
Mölter et al. (2014a)	The child's home (kitchen, living room, bedroom), the child's school and the journey between home and school	Birth year, birth to review (age 0–3, 0–5, 0–8, 0–11), 1 year prior to review (ages 2–3, 4–5, 7–8, 10–11)		BC, R <sup>2</sup> = 91% NO <sub>2</sub> , R <sup>2</sup> = 83% NO <sub>x</sub> , R <sup>2</sup> = 83% PM <sub>2.5</sub> , R <sup>2</sup> = 35% PM <sub>10</sub> , R <sup>2</sup> = 84% PM <sub>coarse</sub> , R <sup>2</sup> = 79%
Mölter et al. (2014b)	Residential address	Birth year, age 4 or 5 years and age 8 or 10 years' addresses		NO <sub>2</sub> , R <sup>2</sup> = 67% - 87% NO <sub>x</sub> , R <sup>2</sup> = 76% - 84%

	Morgenstern et al. (2007)	Residential address	Birth year	BC, $R^2 = 47\%$ NO <sub>2</sub> , $R^2 = 51\%$ PM <sub>2.5</sub> , $R^2 = 36\%$
	Morgenstern et al. (2008)	Residential address <b>(considering moving residence)</b>	Birth year and at 2 or 3 y.o. and at 6 y.o.	BC, $R^2 = 42\%$ NO <sub>2</sub> , $R^2 = 51\%$ PM <sub>2.5</sub> , $R^2 = 36\%$
	Ranzi et al. (2014)	Residential address <b>(considering moving residence)</b>	Birth year, current exposure (calculated at residence 6 months before the date of interview), time-weighted average (from birth to 6 months before the interview)	NO <sub>2</sub> , $R^2 = 70\%$
	Tétreault et al. (2016)	Residential address <b>(considering moving residence)</b>	Birth year, time-varying annual exposures	NO <sub>2</sub> , $R^2 = 80\%$
	Yang et al. (2016)	Residential address	Birth year, current year	BC, $R^2 = 92\%$ NO <sub>2</sub> , $R^2 = 86\%$ PM <sub>2.5</sub> , $R^2 = 67\%$
<b>Dispersion modelling</b>	Gruzieva et al. (2013)	Residential, daycare, and school addresses <b>(unclear if they considered moving houses)</b>	Birth year, current exposure (12 months before the date of a questionnaire), average exposure during since the previous follow-up	NO <sub>x</sub> , $R^2 = 74\% - 80\%$ PM <sub>10</sub> , $R^2 = 61\%$
	Hasunuma et al. (2016)	Residential and nursery address <b>(considering moving residence)</b>	Time-weighted average during the first 1.5 years of life	EC, $R^2 = 59\% - 67\%$ NO <sub>x</sub> , $R^2 = 76\% - 88\%$

	Lindgren et al. (2013)	Residential address <b>(considering moving residence)</b>	Birth year, lifetime mean (2005-2010)	NO <sub>x</sub> , R <sub>s</sub> = 80%
	MacIntyre et al. (2014) – BAMSE cohort only	Residential address at birth	Birth year	NO <sub>x</sub> , r <sup>2</sup> = 0.93
	McConnell et al. (2010)	Residential and school addresses <b>(sensitivity analysis restricted to lifetime residents at same address)</b>	1997 (little change from 1997 over the lifetime of these children prior to study enrollment)	NO <sub>2</sub> , R <sup>2</sup> = 34% - 56%
	Oftedal et al. (2009)	Residential address <b>(considering moving residence)</b>	Birth year, cumulatively before onset	NO <sub>2</sub> , r = 76%
	Rancière et al. (2016)	Residential and daycare address <b>(considering moving residence)</b>	Birth year	NO <sub>x</sub> , r = 0.89
	Yamazaki et al. (2014)	Residential and school addresses	Two years mean before asthma development	EC, R <sup>2</sup> = 59% - 67% NO <sub>x</sub> , R <sup>2</sup> = 76% - 88%
<b>Residential measurements (NO<sub>2</sub>)</b>	Jerrett et al. (2008)	Residential address	Annual/ fall-winter/ summer 2 weeks' average concentrations in 2000	No validation

Remote sensing (PM <sub>2.5</sub> )	Tétreault et al. (2016)	Post code (considering moving residence)	Birth year, time-varying annual exposures	No validation
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