## Table S1 Quality Assessment of Included Studies using the NOS $tool^{\#}$

Author/year/country	Overall quality assessment	Selection				Comparability	Outcome		
		Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	Demonstration that outcome of interest was not present at start of study	Comparability of cohorts on the basis of the design or analysis	Assessment of outcome	Follow-up was long enough for outcomes to occur	Adequacy of follow-up of cohorts
Berger K/2019/USA	8	*	*	*	*	*	_	*	*
Buckley JP/2018/USA	8	*	*	*	*	*	_	*	*
Vernet C/2017/France	8	*	*	*	*	*	_	*	*
Wang IJ/2016/China	8	*	*	*	*	*	_	*	*
Gascon M/2015/Spain	8	*	*	*	*	*	_	*	*
Spanier AJ/2014/USA	8	*	*	*	*	*	_	*	*
Kim KN/2014/Korea	8	*	*	*	*	*	_	*	*
Donohue KM/2013/USA	9	*	*	*	*	*	*	*	*
Spanier AJ/2012/USA	8	*	*	*	*	*	_	*	*

<sup>#</sup>, the New Castle-Ottawa Scale for cohort studies. The score ranges from 0 to 9.

Table S2 Limitations	of included studies
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Source	limitations				
Berger K (2019)	The researchers cannot differentiate atopic and nonatopic cases, some of the probable asthma cases may be nonatopic The result cannot generalize to other population. The study is based on small sample size				
Buckley JP (2018)	The researchers assess exposure based on a spot urine samplecollected during the third trimester, may cause misclassified exposure. The result lack of information on postnatal exposure. The study did not have adequate sample size. The study lack of clinical confirmation of outcomes. The researchers failed to follow up and this may lead to selection bias. The result cannot generalize to other population Sample BPA level may not represent recent exposure				
Vernet C (2017)	The researchers were unable to differentiate bronchiolitis and bronchitis occurrences. The result cannot generalize to girls. There is limited sample size. The study did not consider the well-known wheezing phenotypic heterogeneity. The single sample contributes to exposure misclassification. There is no information on postnatal exposures				
Wang IJ (2016)	The exposure based on a spot urine sample collected during the third trimester, may cause misclassified exposure . Lack of data on prenatal BPA exposure and cross section design may limit conclusion. There is potential selection bias				
Gascon M (2015)	The researchers failed to follow up				
Spanier AJ (2014)	A spot urine sample may cause misclassified exposure. Lung function assessment, FEV1, which cannot be available for all the children participated in the study ,cannot pred future lung function and distinguish the effects of BPA. The children who can provide FEV1 result have poorer lung function than children's as reference sample. Parent-repo outcomes lead to under or over reported wheeze. Confounders influence the generalizability of the results. Samples recruited in the study were limited to English speaking families. Concurrent exposure may affect results				
Kim KN (2014)	The study is on the basis of small sample size. The result cannot be generalized.				
Donohue KM (2013)	The exposure based on a spot urine sample collected during the third trimester, may cause misclassified exposure. Unmeasured confounding may affect the results. There is wheeze outcome misclassification because of miss data. The researchers did not use bronchial provocation testing				
Spanier AJ (2012)	The study cannot place the three maternal measurements and the three creatinine concentrations in the same analysis. BPA concentrations is changing over time, the collected sample may cause exposure classification. Parent-report outcomes lead to under or over reported wheeze. The sample is not a random sample. There was differential attrition in the study				

Subgroup	Included datas	Begg's test	Egger's test		
Prenatal BPA-asthma	5	1	0.793		
Prenatal BPA-wheeze	5	0.592	0.528		
Prenatal BPA-gestation	2	1	0.517		
Postnatal BPA-asthma	3	0.133	0.056		
Postnatal BPA-wheeze	3	0.806	0.317		

Table S3 Publication bias of each subgroup using Stata SE12.0

All studies were without publication bias (P>0.05).



