

評価対象論文リスト(要因:受動喫煙、アウトカム:早産・低出生体重児・在胎不当過小児)

評価判定日:2023/5/29

①既存の系統的レビュー・メタ解析・統合解析

1	Wu H, Cao MK, Yang LP, Jiang BF. Zhonghua Liu Xing Bing Xue Za Zhi. 2016;37(10):1417-1423. doi:10.3760/cma.j.issn.0254-6450.2016.10.020
2	Cui H, Gong TT, Liu CX, Wu QJ. Associations between Passive Maternal Smoking during Pregnancy and Preterm Birth: Evidence from a Meta-Analysis of Observational Studies. PLoS One. 2016;11(1):e0147848. Published 2016 Jan 25. doi:10.1371/journal.pone.0147848
3	Liu T, Chen W. Wei Sheng Yan Jiu. 2009;38(6):677-681.
4	Liu T, Chen WQ, He YH, Ding P, Ling WH. Zhonghua Liu Xing Bing Xue Za Zhi. 2009;30(1):68-72.
5	Carter T, Schoenaker D, Adams J, Steel A. Paternal preconception modifiable risk factors for adverse pregnancy and offspring outcomes: a review of contemporary evidence from observational studies. BMC Public Health. 2023;23(1):509. Published 2023 Mar 16. doi:10.1186/s12889-023-15335-1
6	Leonardi-Bee J, Smyth A, Britton J, Coleman T. Environmental tobacco smoke and fetal health: systematic review and meta-analysis. Arch Dis Child Fetal Neonatal Ed. 2008;93(5):F351-F361. doi:10.1136/adc.2007.133553

②日本人個別研究(ランダム化比較試験、コホート研究、症例対照研究、横断研究などの個別疫学研究)

7	Kobayashi S, Sata F, Hanaoka T, et al. Association between maternal passive smoking and increased risk of delivering small-for-gestational-age infants at full-term using plasma cotinine levels from The Hokkaido Study: a prospective birth cohort. BMJ Open. 2019;9(2):e023200. Published 2019 Feb 19. doi:10.1136/bmjopen-2018-023200
8	Miyake Y, Tanaka K, Arakawa M. Active and passive maternal smoking during pregnancy and birth outcomes: the Kyushu Okinawa maternal and child health study. BMC Pregnancy Childbirth. 2013;13:157. Published 2013 Aug 6. doi:10.1186/1471-2393-13-157
9	Ojima T, Uehara R, Watanabe M, Tajimi M, Oki I, Nakamura Y. Population attributable fraction of smoking to low birth weight in Japan. Pediatr Int. 2004;46(3):264-267. doi:10.1111/j.1442-200x.2004.01881.x

■ コホート研究

Reference			Study subjects					
Author	Title	Year	Study period	Number of subjects	Source of subjects	Event followed	Number of incident cases or deaths	Participant's race
Miyake, Y.; K. Tanaka; M. Arakawa	Active and passive maternal smoking during pregnancy and birth outcomes: the Kyushu Okinawa maternal and child health study	2013	2007-2008	1565	one cohort	low birth weight Preterm birth SGA		Japanese
				911				
				516				
				1255				
				172				

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Category	Number among cases	Relative risk (95%CI or p)									Confounding variables considered	<u>Magnitude of association</u>	
		Rate(%)	OR low birth weight	(95% CI)	Rate(%)	OR Preterm birth	(95% CI)	Rate(%)	OR SGA	(95% CI)	Adjusted mean of birth weight, g	Adjustment for maternal age; region of residence; number of children; family structure; maternal education; maternal employment; alcohol consumption during the preceding month; body mass index; gestational age; and baby's gender.	
ETS exposure at home /No		7.4	reference		3.5	reference		8.1	reference		3014.3		
ETS exposure at home /Yes		7.4	0.88	(0.53 – 1.42)	3.5	0.91	(0.48 -1.65)	6.6	0.8	(0.51 – 1.24)	3011.2		—
ETS exposure at work /No		7.5	reference		3.5	reference		7.7	reference		3010.4		
ETS exposure at work /Yes		6.4	0.97	(0.44 – 1.94)	3.5	0.97	(0.36 - 2.23)	7	0.96	(0.48 – 1.78)	3033.2		—

■メタ解析

Reference			Include study						Design	Category	Relative risk (95% CI or p)	Weight	Magnitude of association
Author	Title	Year	Ref No.	First author	Year	Study period	Study location	Event (*Definition)					
Cui H, Gong TT, Liu CX, Wu QJ.	Associations between Passive Maternal Smoking during Pregnancy and Preterm Birth: Evidence from a Meta-Analysis of Observational Studies	2016	24 studies included						Meta-analysis	Overall	1.20 (1.07, 1.37)		↑
Leonardi-Bee J, Smyth A, Britton J, Coleman T.	Environmental tobacco smoke and fetal health: systematic review and meta- analysis	2008	58 studies included						Meta-analysis	Pooled prospective studies	1.32 (1.07, 1.63)		↑
										Pooled retrospective studies	1.22 (1.08, 1.37)		↑
										Pooled prospective studies	1.21 (1.06, 1.37)		↑