

評価対象論文リスト(要因:低出生体重児で生まれた人、アウトカム:循環器病)

評価判定日:2025/5/29

①既存の系統的レビュー・メタ解析・統合解析

1	Mohseni R, Mohammed SH, Safabakhsh M, et al. Birth Weight and Risk of Cardiovascular Disease Incidence in Adulthood: a Dose-Response Meta-analysis. <i>Curr Atheroscler Rep.</i> 2020;22(3):12. Published 2020 Apr 23. doi:10.1007/s11883-020-0829-z
2	Knop MR, Geng TT, Gorny AW, et al. Birth Weight and Risk of Type 2 Diabetes Mellitus, Cardiovascular Disease, and Hypertension in Adults: A Meta-Analysis of 7 646 267 Participants From 135 Studies. <i>J Am Heart Assoc.</i> 2018;7(23):e008870. doi:10.1161/JAHA.118.008870
3	Belbasis L, Savvidou MD, Kanu C, Evangelou E, Tzoulaki I. Birth weight in relation to health and disease in later life: an umbrella review of systematic reviews and meta-analyses. <i>BMC Med.</i> 2016;14(1):147. Published 2016 Sep 28. doi:10.1186/s12916-016-0692-5 (アンブレラレビュー)
4	Wang SF, Shu L, Sheng J, et al. Birth weight and risk of coronary heart disease in adults: a meta-analysis of prospective cohort studies. <i>J Dev Orig Health Dis.</i> 2014;5(6):408-419. doi:10.1017/S2040174414000440

②日本人の個別疫学研究

5	Yoshii K, Morisaki N, Piedvache A, et al. Association Between Birth Weight and Prevalence of Cardiovascular Disease and Other Lifestyle-related Diseases Among the Japanese Population: The JPHC-NEXT Study. <i>J Epidemiol.</i> 2024;34(7):307-315. doi:10.2188/jea.JE20230045
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■コホート研究(コホートのプール解析含む)

Author	Title	Year	Study subjects						Category	Number among cases	Relative risk (95%CI or p)	P for trend	Confounding variables considered	Magnitude of association
			Study period	Number of subjects	Source of subjects	Event followed	Number of incident cases or	Participant's race						
Yoshii K et al.	Association Between Birth Weight and Prevalence of Cardiovascular Disease and Other Lifestyle-related Diseases Among the Japanese Population: The JPHC-NEXT Study.	2024	2011～2016年	88,653	JPHC-NEXT Studyのベースライン調査	CVD	3,965	Japanese	<1.5	73	1.76 (1.37, 2.26)	< 0.001	年齢 + 生年 + 性別、+ 学歴、家族歴、10歳前後の受動喫煙、ベースライン調査時の身長、兄弟の有無。	
									1.5-2.5	583	1.25 (1.12, 1.39)	< 0.001		
									2.5-3.0	2338	1.07 (0.99, 1.16)			
									3.0-4.0	950	1 (ref)			
								≥4.0	21	1.03 (0.67, 1.59)				

■系統的レビュー・メタ解析・統合解析

Reference			Include study					Design	Category	Relative risk (95% CI or p)	Weight	<u>Magnitude of association</u>
Author	Title	Year	Ref No.	First author	Year	Study period	Study location					
Knop MR et al.	Birth Weight and Risk of Type 2 Diabetes Mellitus, Cardiovascular Disease, and Hypertension in Adults: A Meta-Analysis of 7 646 267 Participants From 135 Studies.	2018						CVD	HR (95%信頼区間)		↑	
									<2.5 kg	1.335 (0.972; 1.834)		
									2.5~3.0 kg	1.171 (0.993; 1.381)		
									3.0~3.5 kg	1.118 (1.064; 1.175)		
									3.5~4.0 kg	1.095 (0.979; 1.224)		
									4.0~4.5 kg	1.00 (ref)		
									>4.5	1.221 (1.086; 1.372)		
CVD	<2.5 kg	1.30 (1.01-1.67)										
	>2.5 kg	1 (ref)										
Wang SF et al.	Birth weight and risk of coronary heart disease in adults: a meta-analysis of prospective cohort studies	2014						CHD		1.12 (1.01, 1.24)	44.80%	
										1.15 (1.00, 1.33)	22.20%	
										0.88 (0.47, 1.64)	1.40%	
										2.19 (1.40, 3.43)	1.30%	
										1.50 (0.31, 7.32)	0.10%	
										1.30 (0.68, 2.48)	1.00%	
										1.12 (0.67, 1.87)	1.70%	
										1.25 (0.45, 3.46)	0.40%	
										1.35 (0.90, 2.04)	2.40%	
										1.28 (1.02, 1.62)	7.80%	
										1.34 (0.88, 2.03)	2.20%	
										1.26 (0.55, 2.92)	0.60%	
										1.39 (1.03, 1.87)	4.20%	
										1.14 (0.89, 1.44)	7.70%	
										1.51 (0.85, 2.69)	1.20%	
										1.89 (1.16, 3.07)	1.20%	
Total									1.19 (1.11, 1.27)	100.00%	↑	