

評価対象論文リスト(要因:魚、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:2024/5/31

①既存の系統的レビュー・メタ解析・統合解析

1	Malmir H, Larijani B, Esmailzadeh A. Fish consumption during pregnancy and risk of allergic diseases in the offspring: A systematic review and meta-analysis. <i>Critical Reviews in Food Science and Nutrition</i> . 2022;62(27):7449-7459. doi:10.1080/10408398.2021.1914543
2	Zhao R, Gao Q, Wang S, Yang X, Hao L. The effect of maternal seafood consumption on perinatal outcomes: a systematic review and dose-response meta-analysis. <i>Critical Reviews in Food Science and Nutrition</i> . 2021;61(21):3504-3517. doi:10.1080/10408398.2020.1802573
3	Zhang G, Liu B, Li J, et al. Fish intake during pregnancy or infancy and allergic outcomes in children: A systematic review and meta-analysis. <i>Pediatric Allergy Immunology</i> . 2017;28(2):152-161. doi:10.1111/pai.12648
4	Leventakou V, Roumeliotaki T, Martinez D, et al. Fish intake during pregnancy, fetal growth, and gestational length in 19 European birth cohort studies. <i>The American Journal of Clinical Nutrition</i> . 2014;99(3):506-516. doi:10.3945/ajcn.113.067421
5	Kremmyda LS, Vlachava M, Noakes PS, Diaper ND, Miles EA, Calder PC. Atopy risk in infants and children in relation to early exposure to fish, oily fish, or long-chain omega-3 fatty acids: a systematic review. <i>Clinic Rev Allerg Immunol</i> . 2011;41(1):36-66. doi:10.1007/s12016-009-8186-2

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)

6	Tsuji S, Adachi Y, Tsuchida A, et al. Association of allergies in children younger than 3 years with levels of maternal intake of n-3 polyunsaturated fatty acids or fish during pregnancy: A nationwide birth cohort study, the Japan Environment and Children's Study. <i>Allergology International</i> . 2024;73(2):282-289. doi:10.1016/j.alit.2023.12.004
7	Ishitsuka K, Tsuji M, Yamamoto M, et al. Association between maternal fish consumption during pregnancy and preterm births: the Japan Environment and Children's Study. <i>Environ Health Prev Med</i> . 2023;28(0):47-47. doi:10.1265/ehpm.23-00084
8	Miyake Y, Tanaka K, Okubo H, Sasaki S, Arakawa M. Maternal fat intake during pregnancy and wheeze and eczema in Japanese infants: the Kyushu Okinawa Maternal and Child Health Study. <i>Annals of Epidemiology</i> . 2013;23(11):674-680. doi:10.1016/j.annepidem.2013.08.004

■コホート研究(コホートのプール解析含む)

Reference			Study subjects						Category	Number among cases	Relative risk (95%CI or p)	P for trend	Confounding variables considered	<u>Magnitude of association</u>
Author	Title	Year	Study period	Number of subjects	Source of subjects	Event followed	Number of incident cases or deaths	Participant's race						
Ishitsuka K, Tsuji M, Yamamoto M, Tanaka R, Suga R, Kuwamura M, Sakuragi T, Shimono M, Kusuhara K; Japan Environment and Children's Study Group.	Association between maternal fish consumption during pregnancy and preterm births: the Japan Environment and Children's Study Group.	2023	2011-2014	81,428		PTB	fish intake during pregnancy	Japanese	Total fish	Q1 (Ref) Q2 Q3 Q4 Q5	Ref 0.97 (0.91, 1.04) 0.99 (0.93, 1.06) 0.96 (0.89, 1.02) 0.98 (0.91, 1.05)			
									Fatty fish	Q1 (Ref) Q2 Q3 Q4 Q5	Ref 0.96 (0.90, 1.03) 0.99 (0.92, 1.06) 0.96 (0.89, 1.02) 0.95 (0.89, 1.02)			
									Lean fish*	No intake Intake	Ref 0.98 (0.94, 1.03)			
									Fish paste	Q1 (Ref) Q2 Q3 Q4 Q5	Ref 1.02 (0.88, 1.18) 0.99 (0.90, 1.10) 0.96 (0.93, 1.05) 1.10 (1.04, 1.17)		↓ blood mercury	
									Seafood and other seafood	Q1 (Ref) Q2 Q3 Q4 Q5	Ref 0.95 (0.88, 1.03) 0.98 (0.92, 1.04) 0.96 (0.86, 0.98) 0.95 (0.90, 1.01)			↑
									Other seafood	Q1 (Ref) Q2 Q3 Q4 Q5	Ref 0.99 (0.93, 1.06) 1.00 (0.94, 1.07) 0.96 (0.90, 1.03) 1.00 (0.93, 1.07)			

■メタ解析、系統的レビュー

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					
Leventakou V et al.,	Fish intake during pregnancy, fetal growth, and gestational length in 19 European birth cohort studies	2014					Pooled of 13 studies	LBW	fish intake during pregnancy; ≤1 times	Ref	
									1<times/wk<3	0.87 (0.82, 0.92)	↓
									≥3 times/wk	0.89 (0.84, 0.96)	↓
							Pooled of 13 studies	PTB	fish intake during pregnancy; ≤1 times	Ref	

1<times/wk<3 0.87 (0.82, 0.92)

↓

≥3 times/wk 0.89 (0.84, 0.96)

↓
