Authors (Study name)	Published	Study population	Study type	N	Countries	Exposure	Main results- (adj OR & 95% CI)	Reference	Authors, title
, , , , , , , , , , , , , , , , , , , ,		у при	, -, μ				Consumption of farm milk during first year of life inversely		Waser M, Maisch S, et al. Exposure to farming in early
		Rural farm & non-farm				Milk on farm/farm	associated with asthma, hay fever, and atopy, independent of		life and development of asthma and allergy: a
Riedler et al. (ALEX)	2001	children 6-12 years	Cross-sectional	812	AU. DE, CH	gate	other farm exposure	Lancet 2001;358:1129-33.	crosssectional survey.
							farm milk consumption ever in life and asthma: OR 0.47		
							(0.61–0.88), rhinoconjunctivitis: OR 0.56 (0.43–0.73),		Waser M, Michels KB, Bieli C, Floistrup H, Pershagen
		Rural farm, non-farm					sensitization to pollen:OR 0.67 (0.47–0.96), and food mix:OR		G, von Mutius E, et al. Inverse association of farm milk
		and peri-urban children			AU. DE, CH, NL,	Milk on farm/farm	0.42 (0.19–0.92). Association observed in all subgroups,		consumption with asthma and allergy in rural and
Waser et al. (PARSIFAL)	2007	5-13 years	Cross-sectional	14893	SE	gate	independent of farm-related co-exposures	Clin Exp Allergy 2007;37:661-70.	suburban populations across Europe.
							raw milk - less eczema OR 0.59 (0.40-0.87), less atopy OR 0.42		
		rural farm and non-farm					(0.10 - 0.53), higher stimulated production IFN-G, effect		"Which aspects of the farming lifestyle explain the
Perkin & Strachan	2006	children	Cross-sectional	4767	UK	Unpasteurized milk	independent of farming status. No effect on asthma	J Allergy Clin Immunol 2006;117:1374-81.	inwerse association with childhood allergy."
		rural farm and non-farm				Library and a complete and any fills	At a second seco		Contro Dono formula a suntain suntain and asset
Barnes et al.	2001	and urban children (11- 19 years)	Cross-sectional	929	GR	Unpasteurized milk products	Atopy and unpasteurized milk with & without farm animal contact 0.32 (0.13–0.78) and 0.58 (0.34–0.98), respectively	Clin. Exp. Allergy. 2001;31:1822–1828.	Crete: Does farming explain urban and rural differences in atopy?.
barries et al.	2001	15 years)	Cross-sectional	323	GK	products	Contact 0.52 (0.15-0.78) and 0.38 (0.54-0.38), respectively	Ciiii. Exp. Alieigy. 2001,51.1622–1626.	differences in atopy :.
									Radon K, Windstetter D, Eckart J, Dressel H, Leitritz L,
									Reichert J, et al. Farming exposure in childhood,
		rural farm and non-farm					Raw milk and atopy OR 0.65 (0.36–1.18), for those with early		exposure to markers of infections and the
Radon et al.	2004	adults (18-44 years)	Cross-sectional	321	DE	raw, unboiled milk	farm animal contact 0.35 (0.17-0.74)	Clin. Exp Allergy 2004;34:1178-83.	development of atopy in rural subjects. Clin
							Early yogurt consumption and hay fever OR 0.30 (0.1–0.7); any		
						unpasteurized milk	unpasteurized milk and atopic eczema: OR 0.2 (0.1–0.8). No		
L		farm and small town				(ever), yougurt	association between unpasteurized milk consumption and	/	
Wickens et al.	2002	children (7-10 years)	Cross-sectional	293	NZ	weekly	asthma or atopy	Allergy 57(12):1171-1179.	
		rural farm and non-farm							Which factos explain the lower prevalence of atoy
Remens et al.	2003	children (6-15 years)	Cross-sectional	710	FI	farm milk in infancy	No significant association with atopy	Clin. Exp. Allergy. 2003;33:427-34.	amongst farmers children?
nemens ee an	2005	cimaren (o 15 years)	Cross sectional	710		ranni militari maney	The significant association with acepy	EMPLY METALL EDGS (SST. 12.7 ST.	amongst tarmers amarem.
						maternal			
		farm and non-farm				consumption of raw			
		children followed since			FI, FR, AU, DE,	and boiled farm milk	Boiled farm milk associated with with specific IgE to cow's		
Ege et al. (PASTURE)	2008	pregnancy	Cohort	922	CH	during pregnancy	milk: adj. OR and (95% CI): 1.78 (1.08–2.93)	Eu Respir J. 2008 ;31:1241–1248.	
						Skimmed and	Maternal consumption of farm produced		
						unskimmed	butter during pregnancy associated		
		farm and non-farm				farm milk, farm produced butter	with increased IFN-g and TNF-a production in cord blood, farm produced		
		children followed since			FI, FR, AU, DE,	and yogurt	yogurt inversely associated with these		
Pfefferie et al. (PASTURE)	2010	pregnancy	Cohort	922	CH	during pregnancy	cytokines	J Allergy Clin Immunol. 2010;125:108.	
, , , , , , , , , , , , , , , , , , , ,		p8)				g pgy		7 mergy cim minution 2010,123.100.	C., Genuneit, J., Pekkanen, J., Roponen, M., Hirvonen,
							raw milk & asthma OR 0.59 (0.46-0.74), atopy OR, 0.74 (0.61-		M.R., Dalphin, J.C., Dalphin, M.L., Riedler, J., von, M.E.,
							0.90), and hay fever OR 0.51 (0.37-0.69) independent of other		Weber, J., Kabesch, M., Michel, S., Braun-Fahrlander,
							farm, The findings suggest that the protective effect of		C., Lauener, R., 2012. Prenatal and early-life exposures
						raw milk	raw milk consumption on asthma might be associated with the		alter expression of innate immunity genes: the
Land of ACADDIELA)	2011	ash and another title	C	0224	DE ALL CIL	consumption and	whey protein fraction of milk.	LAlleren Clie Incorporal 2044 420 755 72 h	PASTURE cohort study. J Allergy Clin Immunol 130,
Loss et al. (GABRIELA)	2011	school-aged children	Cross-sectional	8334	DE, AU, CH	milk constituents	exposures.	J Allergy Clin Immunol 2011;128:766-73.)	523-530.
		ALEV I DADOIS **					genotypes of CD14/-1721. Adj. OR (95%CI) AA: 0.81		W, Waser M, et al. A polymorphism in CD14 modifies
		ALEX and PARSIFAL			CE NI ALI DE	Mills on form /for	(0.07–0.47); AG: 0.47 (0.26–0.86); and GG: 0.98(0.46–2.08).		the effect of farm milk consumption on allergic
Bieli et. Al. (ALEX & PARSIFAL)	2007	subset with DNA samples	Cross-sectional	2054	SE, NL, AU, DE, CH	Milk on farm/farm gate	Similar patterns for symptoms of hay fever and pollen sensitization.	Allergy Clin Immunol 2007;120:1308-15.	diseases and CD14 gene expression. J Allergy Clin Immunol 2007;120:1308-15.
DICH CO. AL. (ALLA & FARSIFAL)	2007	Jumples	C1033-3CCtional	2034	CII	Butc	Growing up on a farm was found to have a protective effect	Chieffy Citif Illinulioi 2007,120.1306-13.	IIIIIIIIIII 2007,120.1300-13.
							against all outcomes studied, both self-reported, such as		
							rhinoconjunctivitis, wheezing, atopic eczema and asthma and		
							sensitization (allergen specific IgE ≥0.35 kU/I). The adjusted		Alfven, T., Braun-Fahrlander, C., Brunekreef, B., von,
							odds ratio (OR) for current rhinoconjunctivitis symptoms was		M.E., Riedler, J., Scheynius, A., van, H.M., Wickman,
							0.50 (95% confidence interval (CI) 0.38–0.65) and for atopic		M., Benz, M.R., Budde, J., Michels, K.B., Schram, D.,
							sensitization 0.53 (95% CI 0.42–0.67) for the farm children		Ublagger, E., Waser, M., Pershagen, G., 2006. Allergic
		Rural farm, non-farm			ALL DE CUI VII		compared to their references. The prevalence of allergic		diseases and atopic sensitization in children related
Alfven et al. (PARSIFAL)	2006	and peri-urban children 5-13 years	Cross-sectional	14893	AU. DE, CH, NL,	farm lifestyle	symptoms and sensitization was also lower among Steiner school children compared to reference children, but the	Allergy 2006: 61, 414-421.	to farming and anthroposophic lifestylethe PARSIFAL study.
Alivell et al. (PAKSIFAL)	2006	2-12 Aegi2	CLOSS-SECTIONAL	14693	) SE	rarm mestyle	school children compared to reference children, but the	Allergy 2000: 01, 414-421.	ransıral study.

									Perkin MR. Unpasteurized milk: health or hazard? Clin
Perkin MR.	2007						commentary on Wasset et al. 2007	Clin Exp Allergy 2007;37: 627-30	Exp Allergy 2007;37: 627-30
		farm and non-farm children followed since			FI, FR, AU, DE,	raw milk, UHT milk,	When contrasted with ultra-heat treated milk, raw milk consumption was inversely associated with occurrence of rhinitis (adjusted odds ratio from longitudinal models [95% CI]: 0.71 [0.54-0.94]), respiratory tract infections (0.77 [0.59-0.99]), otitis (0.14 [0.05-0.42]), and fever (0.69 [0.47-1.01]). Boiled farm milk showed similar but weaker associations. Industrially processed pasteurized milk was inversely associated with fever. Raw farm milk consumption was inversely associated with C-reactive protein levels at 12		Consumption of unprocessed cow's milk protects
Loss, G et al. (PASTURE)	2015	pregnancy	Cohort	922	CH	pasteurized milk	months (geometric means ratio [95% CI]: 0.66 [0.45-0.98]).	J Allergy Clin Immunol 2015: 135, p 56–62	infants from common respiratory infections.
Loss, G et al.	2012							J Allergy Clin Immunol 2012: 130, 523-530.	Loss, G., Bitter, S., Wohlgensinger, J., Frei, R., Roduit, C., Genuneit, J., Pekkanen, J., Roponen, M., Hirvonen, M.R., Dalphin, J.C., Dalphin, M.L., Riedler, J., von, M.E., Weber, J., Kabesch, M., Michel, S., Braun-Fahrlander, C., Lauener, R., Prenatal and early-life exposures alter expression of innate immunity genes: the PASTURE cohort study. J Allergy Clin Immunol 130, 523-530.
Tremonte et al.	2014								Raw milk from vending machines: Effects of boiling, microwave treatment, and refrigeration on microbiological quality
Abbring et al.	2017	laboratory mice	clinical trial		na	raw milk, pasteurized milk		Frontiers Immunol 2017: Vol 8, Art 1045	Raw milk ws not able to induce sensitization in contract to processed milk. Acute allergic skin response, body temperature and anaphylactic shock symptoms were missing in mise fed raw milk, but present in mice fed pasteurized and processed milk
Braun-Fahrländer C, von Mutius	2011							Clin Exp Allergy. 2011 Jan;41(1):29-35. doi: 1	Can farm milk consumption prevent allergic diseases?  Braun-Fahrländer C, von Mutius E.