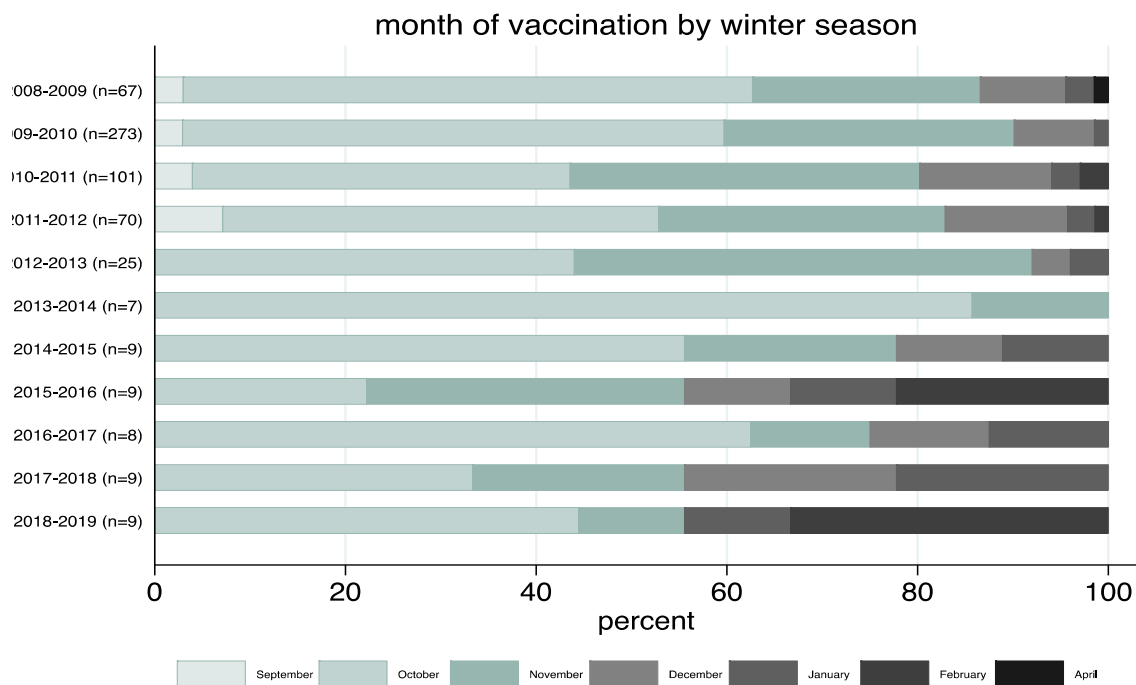


Supplementary material

This supplementary material is hosted by Vaccines as supporting information alongside the article "Influenza vaccination coverage rates and determinants in Greek children until the age of ten (2008-2019); the Rhea mother-child cohort", on behalf of the authors, who remain responsible for the accuracy and appropriateness of the content. The same standards for ethics, copyright, attributions and permissions as for the article apply.



Supplementary Figure S1. Distribution of vaccinations by month of vaccination in each winter season. The season 2019-2020 was excluded from this analysis and graph, because only a few children were evaluated at this season.

Supplementary table S1. Frequency of trades among all vaccine doses administered		
trade	n	%
vaxigrip	733	80.1
fluarix	26	2.8
focetria	11	1.2
influvac	2	0,2
unknown	143	15.7
Total	915	100

Supplementary Table S2. Determinants of ever vaccination by age four based on univariate regression models.

Characteristics	all	Ever vaccinated until age four		
	n (%)	n (%)	OR	95% CI
maternal age				
35-45	97 (11,8)	30 (9,8)	0.74	[0.43,1.26]
25-35	558 (68,1)	214 (69,9)	1.02	[0.71,1.47]
17-25	164 (20,0)	62 (20,3)		REF
Maternal education				
high	261 (32,5)	104 (35,0)	1.55	[0.99,2.44]
medium	414 (51,6)	155 (52,2)	1.40	[0.91,2.15]
low	127 (15,8)	38 (12,8)		REF
Maternal origin				
Greek	772 (94,1)	288 (95,0)	1.31	[0.70,2.45]
non-Greek	48 (5,9)	15 (5,0)		REF
Gender				
girl	405 (49,0)	147 (47,9)	0.93	[0.70,1.24]
boy	422 (51,0)	160 (52,1)		REF
preterm birth				
yes	95 (11,8)	40 (13,6)	1.29	[0.84,2.00]
no	709 (88,2)	255 (86,4)		REF
delivery type				
caesarean	400 (49,5)	142 (47,8)	0.90	[0.67,1.20]
vaginal	408 (50,5)	155 (52,2)		REF
breastfeeding ever				
yes	672 (86,5)	244 (85,0)	0.82	[0.54,1.25]
no	105 (13,5)	43 (15,0)		REF
older siblings				
yes	445 (55,4)	150 (50,8)	0.75*	[0.56,1.00]
no	358 (44,6)	145 (49,2)		REF
child's health insurance				
"IKA"	346 (42.2%)	105 (34.4%)	0.53***	[0.37, 0.74]
"OGA"	136 (16.6%)	59 (19.3%)	0.93	[0.61, 1.42]
"OPAD/OAEE"	232 (28.3%)	105 (34.4%)		REF
other	93 (11.3%)	31 (10.2%)	0.60*	[0.37, 1.00]
none	13 (1.6%)	5 (1.6%)	0.76	[0.24, 2.38]
passive smoking 4 years				
yes	368 (46,2)	121 (41,0)	0.72*	[0.53,0.96]
no	428 (53,8)	174 (59,0)		REF
residency 4 years				
urban	588 (71,1)	210 (68,4)	0.81	[0.60,1.11]
rural	239 (28,9)	97 (31,6)		REF
asthma diagnosis 4 years				
yes	44 (5,4)	19 (6,3)	1.30	[0.71,2.41]
no	771 (94,6)	284 (93,7)		REF
obese 4 years				

yes	60 (7,3)	23 (7,5)	1.06	[0.62,1.82]
no	764 (92,7)	282 (92,5)		REF

Supplementary Table S3. Determinants of ever vaccination by age four based on stepwise regression models among children without asthma and/or obesity (n=501 with complete data)

Characteristics	Univariate		Multivariate	
	OR	95% CI	OR	95% CI
early daycare attendance				
yes	1.46*	[1.02, 2.09]	1.51	[0.97, 2.35]
no		REF		REF
younger siblings				
yes	1.62**	[1.18, 2.21]	1.75**	[1.19, 2.59]
no		REF		REF
passive smoking 1 year				
yes	0.70*	[0.51, 0.97]	0.70	[0.48, 1.02]
no		REF		REF
respiratory infections the first year				
2-4 infections	1.75**	[1.16, 2.64]	2.08**	[1.32, 3.29]
0-1 infections		REF		REF
respiratory infections the fourth year				
2-4 infections	1.49*	[1.05, 2.10]	1.44	[0.94, 2.21]
0-1 infections		REF		REF