

Additional File 2: Multivariable analyses of associations with not advising vaccinations despite STIKO-recommendation, n=1230

Variables	Did not advise any vaccination		Did not advise tetanus vaccination		Did not advise influenza vaccination		Did not advise pneumococcal vaccination	
	OR (95%CI)	p-value	OR (95%CI)	p-value	OR (95%CI)	p-value	OR (95%CI)	p-value
SD								
Respondent is GP (Reference: PA)	1.43 (0.91-2.22)	0.118	2.81 (1.46-5.42)	0.002	2.63 (1.51-4.58)	0.001	1.84 (1.13-3.01)	0.015
Practice in Western part of Germany (Reference: East)	2.91 (1.72-4.92)	<0.001	1.77 (0.88-3.57)	0.110	2.36 (1.25-4.45)	0.008	2.80 (1.55-5.06)	0.001
Amount of patients of ≥60 yrs less than 50% (Reference: ≥50%)	1.57 (1.10-2.23)	0.013					1.61 (1.10-2.37)	0.015
Age at least at the median of the respected profession (Reference: In GP: younger than 50 years; in PA: younger than 40 years)			1.75 (1.00-3.06)	0.049				
Wants more information for patients by public authorities Reference: Yes Neutral No	1.62 (1.08-2.42) 1.22 (0.74-1.99)	0.019 0.435					1.52 (0.98-2.35) 1.31 (0.77-2.22)	0.064 0.321
Wants better information on changes of official recommendations Reference: Yes Neutral No	0.62 (0.39-1.01) 0.77 (0.43-1.36)	0.055 0.363	0.53 (0.26-1.04) 0.70 (0.30-1.61)	0.065 0.400			0.58 (0.34-0.98) 0.67 (0.34-1.30)	0.041 0.234
Trusts in official STIKO-recommendations Reference: Yes Neutral No	3.86 (1.94-7.65) 4.43 (1.01-19.42)	<0.001 0.048	2.00 (0.83-4.85) 4.89 (1.45-16.49)	0.124 0.010	2.98 (1.46-6.08) 4.45 (1.29-15.39)	0.003 0.018	1.55 (0.73-3.27) 2.86 (0.78-10.49)	0.251 0.113
Likes to counsel about vaccinations Reference: Yes Neutral No	2.56 (1.44-4.54) 0.77 (0.20-2.97)	0.001 0.699	2.09 (1.01-4.34) 2.20 (0.62-7.81)	0.047 0.223	1.98 (1.03-3.82) 0.55 (0.08-3.70)	0.041 0.538	2.13 (1.18-3.84) 1.16 (0.33-4.06)	0.012 0.818
Perceived benefit of officially recommended influenza vaccine exceeds its potential harms (Reference: Yes) Neutral No	0.96 (0.50-1.86) 2.00 (0.76-5.25)	0.906 0.159			2.33 (1.28) 7.79 (3.59-16.93)	0.005 <0.001		
Benefit of officially recommended pneumococcal vaccine exceeds its potential harms Reference: Yes Neutral No	1.24 (0.65-2.35) 2.84 (1.11-7.28)	0.511 0.030					1.34 (0.76-2.37) 3.54 (1.52-8.20)	0.314 0.003
Regarding vaccinations, patients should be informed by: Other medical specialist Health insurance company Groups of self-help for vaccine-preventable diseases Public authorities			1.43 (0.85-2.40) 1.85 (1.02-3.37)	0.176 0.043			0.74 (0.49-1.10)	0.131
Financial compensation for vaccinating and counseling is sufficient Reference: Yes Neutral No	0.53 (0.31-0.93) 0.69 (0.43-1.13)	0.027 0.142			0.49 (0.26-0.93) 0.42 (0.24-0.75)	0.029 0.003		
Practices								
Not counseling routinely at regular intervals	2.83 (1.52-5.26)	0.001	1.97 (0.87-4.46)	0.106	2.34 (1.08-5.10)	0.032	3.14 (1.46-6.74)	0.003
Not counseling due to travel plans	2.56 (1.34-4.91)	0.005					2.39 (1.16-4.91)	0.018
Not counseling when indicated by recall-system			0.50 (0.30-0.82)	0.007				
Not counseling at preventive checkups	0.52 (0.25-1.10)	0.087			0.30 (0.11-0.83)	0.021	0.54 (0.25-1.19)	0.126
Not counseling at first visit of patient	0.75 (0.52-1.07)	0.112						
Not counseling when patient addresses it							0.41 (0.15-1.12)	0.084
Source of information regarding vaccines Continuing training Pharmaceutical representative Professional journals Professional association Specialty: No specialization	0.75 (0.52-1.07) 1.83 (1.24-2.81)	0.108 0.003	1.78 (1.04-3.05) 1.64 (0.90-2.98)	0.034 0.109	1.63 (1.0-2.69) 1.95 (1.11-3.43)	0.055 0.021	2.16 (1.36-3.43) 1.58 (0.95-2.63)	0.001 0.077
			0.17 (0.02-1.31)	0.088				

Statistical significant Odds Ratios (p<0.05) are shown in bold. SD=Sociodemographic and practice-characteristics