

Supplementary Table 1. Prevalence ratios of utilization of clinical preventive services: differences by health insurance status, family income level and rurality—BRFSS, United States, 2018

Intersectional groups of population	Colon cancer screening (50-75 yrs)		Cervical cancer screening (women, 21-65 yrs)		Breast cancer screening (within 2 years) (women, 50-74 yrs)		HIV testing (ever) (15-65 yrs)		Pneumococcal vaccination (ever) (≥65 yrs)		Influenza vaccination (within 1 year) (≥18 yrs)		Diabetes screening (within 3 years) (40-70 yrs)		HPV vaccination (ever) (18-26 yrs)		Zoster (shingles) vaccination (ever) (≥50 yrs)		Tetanus vaccination (within 10 years) (≥19 yrs)		
	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	UNADJ	ADJ [†]	
Reference= Insured & Lower income & Rural (ILR)																					
Insured & Lower income & Urban (ILU) (95% CI)	1.10*** (1.16)	1.04*** (1.04)	1.06** (1.01-1.10)	1.01*** (1.01)	1.08** (1.02-1.15)	1.02*** (1.02)	1.09*** (1.04-1.15)	0.98*** (0.98-0.98)	0.98 (0.92-1.04)	1.01*** (1.01)	0.95 (0.89-1.01)	1.03*** (1.03)	1.05 (0.98-1.13)	1.02*** (1.02)	1.13 (0.49-2.61)	1.06** (1.06)	0.92 (0.64-1.33)	1.05 (1.05)	1.04 (0.94-1.14)	1.03*** (1.03)	
Insured & Higher income & Rural (IHR) (95% CI)	1.23*** (1.16-1.31)	1.05*** (1.05-1.05)	1.07*** (1.02-1.12)	1.01*** (1.01)	1.15*** (1.08-1.22)	1.04*** (1.04)	0.67*** (0.62-0.71)	0.47*** (0.45-0.49)	1.08** (1.02-1.14)	1.02*** (1.02)	1.13*** (1.06-1.21)	1.01*** (1.01)	1.12*** (1.04-1.20)	1.05*** (1.05)	1.09 (0.37-3.21)	0.62 (0.33-1.17)	1.38* (0.98-1.93)	1.12** (1.12)	1.03 (0.93-1.14)	0.98*** (0.98)	
Insured & Higher income & Urban (IHU) (95% CI)	1.32*** (1.24-1.39)	1.08*** (1.08-1.08)	1.14*** (1.09-1.19)	1.02*** (1.02)	1.20*** (1.13-1.27)	1.05*** (1.05)	0.94** (0.90-0.99)	0.95*** (0.95-0.95)	1.13** (1.07-1.19)	1.04*** (1.04)	1.17*** (1.10-1.24)	1.06*** (1.06)	1.11*** (1.04-1.19)	1.04*** (1.04)	1.45 (0.65-3.25)	1.17** (1.17)	1.58** (1.16-2.15)	1.25** (1.25)	1.04 (0.96-1.14)	0.99*** (0.99)	
Uninsured & Lower income & Rural (ULR) (95% CI)	0.70** (0.54-0.92)	0.50*** (0.39-0.65)	0.89** (0.80-0.98)	0.69*** (0.63-0.76)	0.67*** (0.54-0.84)	0.50*** (0.40-0.62)	0.93 (0.83-1.05)	0.98*** (0.98-0.98)	0.57 (0.25-1.30)	0.42** (0.18-0.96)	0.39*** (0.31-0.49)	0.21*** (0.17-0.26)	0.80* (0.64-1.01)	0.60*** (0.48-0.75)	0.41 (0.074-2.29)	0.81 (0.19-3.47)	0.06** (0.02-0.24)	0.04** (0.018-0.14)	0.77** (0.60-1.00)	0.56*** (0.43-0.72)	
Uninsured & Lower income & Urban (ULU) (95% CI)	0.52*** (0.46-0.59)	0.38*** (0.34-0.43)	0.96 (0.90-1.01)	0.96*** (0.96-0.96)	0.78*** (0.70-0.87)	0.57*** (0.63)	0.97 (0.91-1.04)	0.95*** (0.95-0.95)	0.59** (0.48-0.73)	0.47*** (0.38-0.57)	0.46*** (0.42-0.51)	0.27*** (0.25-0.30)	0.76*** (0.65-0.88)	0.55*** (0.47-0.63)	1.07 (0.37-3.06)	1.37 (1.37)	0.30** (0.14-0.61)	0.17** (0.09-0.34)	0.67*** (0.56-0.80)	0.51*** (0.43-0.60)	
Uninsured & Higher income & Rural (UHR) (95% CI)	0.55*** (0.45-0.67)	0.39*** (0.33-0.47)	0.81*** (0.72-0.92)	0.62*** (0.55-0.70)	0.64*** (0.52-0.79)	0.48*** (0.39-0.59)	0.68*** (0.58-0.80)	0.46*** (0.39-0.54)	0.75 (0.50-1.13)	0.57*** (0.39-0.85)	0.36*** (0.29-0.44)	0.20*** (0.17-0.24)	0.82** (0.70-0.97)	0.60*** (0.52-0.70)	0.70 (0.091-5.35)	0.60 (0.10-3.48)	0.34** (0.12-0.98)	0.21** (0.081-0.53)	0.94 (0.72-1.22)	0.97*** (0.97)	
Uninsured & Higher income & Urban (UHU) (95% CI)	0.68*** (0.61-0.75)	0.48*** (0.44-0.52)	0.88*** (0.83-0.93)	0.67*** (0.64-0.70)	0.80*** (0.72-0.89)	0.59*** (0.54-0.65)	0.93** (0.88-1.00)	0.94*** (0.94-0.94)	0.76** (0.65-0.89)	0.57*** (0.49-0.65)	0.41*** (0.37-0.45)	0.23*** (0.22-0.25)	0.78*** (0.70-0.87)	0.57*** (0.52-0.62)	0.60 (0.21-1.70)	0.43** (0.23-0.81)	0.60** (0.36-0.99)	0.38** (0.26-0.56)	0.87* (0.76-1.00)	0.69*** (0.62-0.77)	

Abbreviations: CI= confidence interval; HPV= human papillomavirus; BRFSS= Behavioral Risk Factor Surveillance System; UNADJ=Unadjusted; ADJ=Adjusted.

† Adjusted by age, sex (except for cervical cancer screening and breast cancer screening), race/ethnicity, education level, marital status, self-reported health status and state.

*** p<0.01; ** p<0.05; * p<0.1.