

Online Supplement to

Telemedicine Adoption Before, During, and After COVID-19: The Role of Socioeconomic and Built Environment Variables

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In this online supplement, we present the results of the effects on the propensity that each reason acts as a telemedicine facilitator or deterrent for a randomly selected individual from the population. Tables 1 and 2 below display these effects along with their corresponding t-statistics, which were excluded from the main manuscript for conciseness.

Table 1. Telemedicine Adoption Facilitator Reasons Model Estimation Results

Explanatory Variables (base category)	Telemedicine Adoption Facilitator Reasons															
	DIPA		TC		TP		TS		CH		LCR		LE		FCO	
	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat
Individual/Household Sociodemographics																
Gender																
Woman (base: man)	0.238	1.70	0.164	1.42							0.314	3.10	-0.298	-2.43		
Lifecycle variables																
Presence of children (base: no children)	0.290	1.95			0.237	1.62									0.278	1.91
Race (base: white)																
Non-white					0.304	2.12			-0.177	-1.51					0.250	1.67
Age (base: 50 years or younger)																
51 to 60 years old					0.446	3.22					0.356	3.00				
61 years or older					0.446	3.22	-0.254	-2.15			0.356	3.00				
Formal education level (base: < Bachelor's degree)																
Bachelor's degree or higher			0.431	2.14												
Household Income (base: less than \$75,000)																
\$75,000 to \$99,999					-0.463	-2.49	0.254	1.78	-0.264	-1.49						
\$100,000 to \$149,999	-0.267	-1.79			-0.501	-2.98	0.254	1.78	-0.264	-1.49						
\$150,000 to \$199,999	-0.267	-1.79			-0.420	-2.25	0.254	1.78	-0.264	-1.49						
\$200,000 or more	-0.267	-1.79	0.516	2.07	-0.420	-2.25	0.254	1.78	-0.264	-1.49						
Income change (base: no change or increase)																
Income decreased during COVID	0.304	1.32														
Number of motorized vehicles (base: ≥1 vehicle)																
0 vehicles	0.785	3.94														

Explanatory Variables (base category)	Telemedicine Adoption Facilitator Reasons															
	DIPA		TC		TP		TS		CH		LCR		LE		FCO	
	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat
Employment Characteristics																
Employment status (base: not employed) Employed full-time or part-time	-0.459	-3.31			0.503	3.21			-0.363	-3.18						
Telework arrangements (base: no telework or telework less than once a week) Telework daily Telework multiple times per week									0.232 0.232	1.85 1.85	0.214 0.214	1.82 1.82				
Student (base: not student) Student															0.352	1.90
Commute mode (base: not car) Car			-0.249	-2.08												
Personal Traits																
Enjoy working from home (base: do not enjoy)	0.235	1.78														
Residential Attributes																
Access to healthcare services # of physicians' offices in zip code (count variable)	-0.005	-1.43			-0.004	-1.54										
Census region (base: Northeast) Midwest South West			0.216	1.50	-0.303 -0.303 -0.484	-1.68 -1.68 -2.57										
Threshold 0 1	1.024	4.09	-0.606	-2.09	0.323	1.03	-0.060	-0.39	-0.149	-0.65	0.323	1.72	0.705	2.13	1.004	4.60

DIPA - Getting to medical appointments is difficult for me; PTQ - The quality of care is worse; TC - Telemedicine is more convenient for me; NIPT - Most of my medical appointments require in-person tests or procedures; TP - I like the privacy offered by telemedicine; TNA - I do not expect my healthcare provider to offer telemedicine; TS - I do not have to wait as long; POP - I like the privacy of a healthcare provider's office; CH - My home is more comfortable than a healthcare provider's office; IPC - In-person appointments are more convenient; LCR - I do not have to risk getting sick from others in a healthcare provider's office; NTC - I am not confident using technology to access my appointments; LE - Telemedicine is cheaper; TSC - I am concerned about security with telemedicine; FCO - I can go see healthcare providers more often

Table 2. Telemedicine Adoption Deterrent Reasons Model Estimation Results

Explanatory Variables	Telemedicine Adoption Deterrent Reasons													
	PTQ		NIPT		TNA		POP		IPC		NTC		TSC	
	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat
Individual/Household Sociodemographics														
Gender														
Woman (<i>base: man</i>)	-0.279	-2.78												
Lifecycle variables														
Presence of children (<i>base: no children</i>)	0.191	1.47							0.287	2.40				
Race (<i>base: white</i>)														
Non-white									0.283	2.43				
Age (<i>base: 40 years or younger</i>)														
41 to 50 years														
51 to 60 years old											0.209	1.26		
61 years or older			0.182	1.38					0.202	2.07	0.209	1.26		
Formal education level (<i>base: < Bachelor's degree</i>)														
Bachelor's degree or higher	0.354	2.43							-0.274	-2.41				
Household Income (<i>base: less than \$25,000</i>)														
\$25,000 to \$74,999														
\$75,000 to \$99,999														
\$100,000 to \$149,999									-0.186	-1.81	-0.271	-1.57	-0.277	-2.03
\$150,000 to \$199,999	0.201	1.35							-0.186	-1.81	-0.422	-1.64	-0.277	-2.03
\$200,000 or more	0.201	1.35			0.323	1.50			-0.186	-1.81	-0.651	-2.13	-0.277	-2.03
Employment Characteristics														
Employment status (<i>base: not employed</i>)														
Employed full-time or part-time			-0.252	-2.62										
Telework arrangements (<i>base: no telework or telework less than once a week</i>)														
Telework daily							-0.195	-1.44	-0.345	-2.21				
Telework multiple times per week							-0.195	-1.44	-0.345	-2.21				

Explanatory Variables	Telemedicine Adoption Deterrent Reasons													
	PTQ		NIPT		TNA		POP		IPC		NTC		TSC	
	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat	Coef.	t-stat
Personal Traits														
Enjoy working from home (<i>base: do not enjoy</i>)							-0.203	-1.45					-0.222	-1.25
Residential Attributes														
Access to healthcare services # of physicians' offices in zip code > 3 (<i>categorical variable</i>)									0.002	1.61				
Census Region (<i>base: Northeast</i>)														
Midwest					-0.247	-1.63								
South	-0.269	-2.31												
West					-0.243	-1.86								
Threshold 0 1	1.026	3.52	-0.212	-1.62	1.221	5.16	0.346	2.56	-0.164	-0.96	0.839	3.79	0.966	4.37

DIPA - Getting to medical appointments is difficult for me; PTQ - The quality of care is worse; TC - Telemedicine is more convenient for me; NIPT - Most of my medical appointments require in-person tests or procedures; TP - I like the privacy offered by telemedicine; TNA - I do not expect my healthcare provider to offer telemedicine; TS - I do not have to wait as long; POP - I like the privacy of a healthcare provider's office; CH - My home is more comfortable than a healthcare provider's office; IPC - In-person appointments are more convenient; LCR - I do not have to risk getting sick from others in a healthcare provider's office; NTC - I am not confident using technology to access my appointments; LE - Telemedicine is cheaper; TSC - I am concerned about security with telemedicine; FCO - I can go see healthcare providers more often