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 Use Facilitator Reasons Model Estimation Results

| | Telemedicine Use Facilitator Reasons | | | | | | | | | | | | | | | |
|---|--------------------------------------|--------|-------|--------|--------|--------|--------|----------|----------|--------|-------|----------|----------|----------|-------|--------|
| Explanatory Variables (base category) | DI | PA | Т | C | T | P | TS | | СН | | 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 | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | |
| Vehicle ownership (base: ≥1 vehicle) | | | | | | | | | | | | | | | | |
| 0 vehicles | 0.785 | 3.94 | | | | | | | | | | | | | | |
| 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) | | | | | | | | | 0.222 | 1.07 | 0.214 | 1.02 | | | | |
| Telework daily | | | | | | | | | 0.232 | | 0.214 | | | | | |
| Telework multiple times per week | | | | | | | | | 0.232 | 1.85 | 0.214 | 1.82 | | | | |
| Student (base: not student) | | | | | | | | | | | | | | | 0.252 | 1.00 |
| Student | <u> </u> |] | | | | | | <u> </u> | <u> </u> | |] | <u> </u> | <u> </u> | <u> </u> | 0.352 | 1.90 |

| Explanatory Variables (base category) | Telemedicine Use Facilitator Reasons | | | | | | | | | | | | | | | |
|--|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|
| | DIPA | | T | TC | | TP | | TS | | СН | | LCR | | LE | | CO |
| | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat |
| 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 | | | | | | | | | | |
| Region (base: Northeast) | | | | | | | | | | | | | | | | |
| Midwest | | | 0.216 | 1.50 | -0.303 | -1.68 | | | | | | | | | | |
| South | | | | | -0.303 | -1.68 | | | | | | | | | | |
| West | | | | | -0.484 | -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 Use Deterrent Reasons Model Estimation Results

| Explanatory Variables (base category) | Telemedicine Use Deterrent Reasons | | | | | | | | | | | | | |
|--|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | PT | Q. | NI | PT | 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 (base: man) | -0.279 | -2.78 | | | | | | | | | | | | |
| Lifecycle variables | | | | | | | | | | | | | | |
| Presence of children (base: no children) | 0.191 | 1.47 | | | | | | | 0.287 | 2.40 | | | | |
| Race (base: white) | | | | | | | | | | | | | | |
| Non-white | | | | | | | | | 0.283 | 2.43 | | | | |
| Age (base: 40 years or younger) | | | | | | | | | | | | | | |
| 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 (base: < Bachelor's | | | | | | | | | | | | | | |
| degree) | | | | | | | | | | | | | | |
| Bachelor's degree or higher | 0.354 | 2.43 | | | | | | | -0.274 | -2.41 | | | | |
| Income (base: less than \$25,000) | | | | | | | | | | | | | | |
| \$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 (base: not employed) | | | | | | | | | | | | | | |
| Employed full-time or part-time | | | -0.252 | -2.62 | | | | | | | | | | |
| Telework arrangements (base: no telework or | | | | | | | | | | | | | , | |
| telework less than once a week) | | | | | | | | | | | | | | |
| Telework daily | | | | | | | -0.195 | | -0.345 | | | | | |
| Telework multiple times per week | | | | | | | -0.195 | -1.44 | -0.345 | -2.21 | | | | |
| Personal Traits | | | | | | | | | | | | | | |
| Enjoy working from home (base: do not enjoy) | | | | | | | -0.203 | -1.45 | | | | | -0.222 | -1.25 |
| Residential Attributes | | | | | | | | | | | | | | |

| Explanatory Variables (base category) | | Telemedicine Use Deterrent Reasons | | | | | | | | | | | | |
|---|--------|------------------------------------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-------|--------|
| | PTQ | | NIPT | | TNA | | POP | | IPC | | NTC | | TS | SC |
| | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat | Coef. | t-stat |
| Access to healthcare services | | | | | | | | | | | | | | |
| # of physicians' offices in zip code > 3 (categorical variable) | | | | | | | | | 0.002 | 1.61 | | | | |
| Region (base: Northeast) | | | | | | | | | | | | | | |
| 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