**Supplemental Appendix**

**Table S1.** Frequency of use of specific ICTs classified by intended use

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** n (%) |  | **Frequency** n (%) |
| **Communicating with colleagues** | **Communicating with Patients** |
|  WhatsApp | 333 (97.4) |  WhatsApp  | 320 (93.6) |
|  Mail  | 320 (93.6) |  Mail  | 240 (70.2) |
|  SMS  | 196 (57.3) |  SMS  | 235 (68.7) |
|  Facebook Messenger | 195 (57.0) |  Facebook Messenger | 185 (54.1) |
|  Line  | 23 (6.7) |  Line  | 10 (2.9) |
|  Hangouts  | 21 (6.1) |  Telegram  | 4 (1.2) |
|  Telegram  | 7 (2.0) |  Hangouts | 4 (1.2) |
|  Vibe  | 6 (1.8) |  Vibe  | 3 (0.9) |
| **Interacting with colleagues** | **Interacting with Patients** |
|  Facebook  | 301 (88.0) |  Facebook  | 232 (67.8) |
|  YouTube  | 267 (78.1) |  Instagram  | 198 (57.9) |
|  Instagram  | 261 (76.3) |  YouTube  | 73 (21.3) |
|  Twitter  | 139 (40.6) |  Twitter  | 61 (17.8) |
|  Google Photos  | 63 (18.4) |  Google Photos  | 26 (7.6) |
|  Snapchat  | 38 (11.1) |  Snapchat  | 18 (5.3) |
|  Blogger  | 11 (3.2) |  Blogger  | 3 (0.9) |
|  Tumbler  | 8 (2.3) |  Tumbler  | 0 (0.0) |
| **Academic purposes** |  |  |
|  PubMed  | 146 (42.7) |  |  |
|  Medscape  | 87 (25.4) |  |  |
|  Google Scholar  | 80 (23.4) |  |  |
|  Academia.edu  | 75 (21.9) |  |  |
|  Cochrane  | 49 (14.3) |  |  |
|  Scopus  | 43 (12.6) |  |  |
|  ResearchGate  | 40 (11.7) |  |  |
|  UpToDate  | 15 (4.4) |  |  |

**Table S2:** Logistic regression analysis between demographic variables and specific perceptions related to ICTs among Ecuadorian dentists.

|  |  |  |
| --- | --- | --- |
| **Variable** | **ICTs useful to search for new work opportunities** | **ICTs useful for continuing dental education** |
| OR  | CI | *p*-value | OR  | CI | *p*-value |
| Age > 33 years | **0.209** | **(0.046-0.96)** | **0.0434\*** | **0.091** | **(0.019-0.462)** | **0.00303\*\*** |
| Years of practice > 8 | 1.79 | (0.405-7.21) | 0.4267 | **4.78** | **(0.978-22.1)** | **0.0452\*** |
| Specialist Dentist | 1.33 | (0.56-3.28) | 0.5279 | 2.85 | (1.06-8.88) | 0.05014. |
| Rural Area | NA | NA | NA | 2.48 | (0.406-48.4) | 0.41282 |
| Female gender | 0.429 | (0.17-0.99) | 0.0569 | 0.562 | (0.225-1.32) | 0.1967 |
| Private Practice | 1.5 | (0.605-3.63) | 0.3741 | 2.17 | (0.852-5.66) | 0.10695 |
| **Variable** | **ICTs useful for health promotion** | **ICTs useful for working in group** |
| OR | CI | *p*-value | OR  | CI | *p-*value |
|  Age > 33 years | 0.424 | (0.102-1.70) | 0.23244 | 0.546 | (0.123-2.55) | 0.43773 |
|  Years of practice > 8 | 0.866 | (0.216-3.30) | 0.83627 | 1.37 | (0.292-6.1) | 0.68485 |
| Specialist Dentist | 1.45 | (0.647-3.38) | 0.3734 | 1.97 | (0.821-5.15) | 0.14382 |
| Rural Area | NA | NA | NA | 1.28 | (0.297-9.09) | 0.76396 |
| Female | **0.167** | **(0.055-0.42)** | **0.00041\*\*** | **0.288** | **(0.11-0.673)** | **0.00634\*\*** |
| Private Practice | 1.25 | (0.525-2.89) | 0.60552 | 1.85 | (0.776-4.4) | 0.16139 |
| **Variable** | **Prefer ICTs to Traditional Channels** | **ICTs useful for solving cases** |
| OR  | CI | *p*-value | OR  | CI | *p*-value |
|  Age > 33 years | **0.162** | **(0.049-0.496)** | **0.00187\*\*** | **0.206** | **(0.053-0.819)** | **0.023\*** |
|  Years of practice > 8 | **3.32** | **(1.1-10.7)** | **0.03706\*** | 3.12 | (0.784-12.1) | 0.1011 |
| Specialist Dentist | 0.809 | (0.429-1.54) | 0.51464 | **2.3** | **(1.04-5.46)** | **0.0469\*** |
| Rural Area | 1.35 | (0.402-6.25) | 0.6551 | 1.33 | (0.374-6.41) | 0.6829 |
| Female | 0.781 | (0.425-1.42) | 0.42037 | 0.502 | (0.24-1.01) | 0.0587 |
| Private Practice | 1.67 | (0.862-3.21) | 0.12559 | **2.35** | **(1.1-5.06)** | **0.027\*** |
| **Variable** | **Service Self Promotion** |
| OR | CI | *p*-value |
|  Age > 33 years | **0.012** | **(0-0.15)** | **0.00119\*\*** |
|  Years of practice > 8 | 3.52 | (0.421-23.5) | 0.20487 |
| Specialist Dentist | **5.03** | **(1.66-19.1)** | **0.00793\*\*** |
| Rural Area | NA | NA | NA |
| Female | 1.1 | (0.462-2.68) | 0.82477 |
| Private Practice | **5.84** | **(2.11-19.1)** | **0.00139\*\*** |

*Notes: NA denotes insufficient instances for regression analysis. Significance codes: \*p < .05. \*\*p < .01. \*\*\*p < .001*

**Table S3:** Logistic regression analysis between demographic variables and specific barriers related to ICTs among Ecuadorian dentists.

|  |  |  |
| --- | --- | --- |
| **Variable** | **Privacy and security concerns** | **Lack of time to learn or use ICTs** |
| OR | CI | *p*-value | OR | CI | *p*-value |
| Age > 33 years | **4.52** | **(1.89-11.8)** | **0.00109\*\*** | 1.88 | (0.831-4.38) | 0.13186 |
| Years of practice > 8 | **0.405** | **(0.156-0.962)** | **0.04855\*** | 0.942 | (0.406-2.14) | 0.8874 |
| Specialist Dentist | 0.702 | (0.422-1.16) | 0.17111 | **0.524** | **(0.32-0.849)** | **0.00922\*\*** |
| Rural Area | 1.06 | (0.41-2.93) | 0.90487 | **0.303** | **(0.102-0.8)** | **0.02139\*** |
| Female gender | **0.52** | **(0.322-0.83)** | **0.00662\*\*** | 0.73 | (0.465-1.14) | 0.16923 |
| Private Practice | 1.22 | (0.701-2.1) | 0.48679 | 0.774 | (0.459-1.3) | 0.33545 |
| **Variable** | **Difficult Internet Access** | **No Internet Access** |
| OR | CI | *p*-value | OR | CI | *p*-value |
| Age > 33 years | 1.48 | (0.523-4.31) | 0.462817 | 2 | (0.688-6.02) | 0.2103 |
| Years of practice > 8 | 1.3 | (0.448-3.74) | 0.62343 | 1.17 | (0.39-3.47) | 0.77341 |
| Specialist Dentist | **0.309** | **(0.165-0.558)** | **0.000151\*\*\*** | **0.347** | **(0.182-0.638)** | **0.00091\*\*\*** |
| Rural Area | 0.873 | (0.3-2.34) | 0.793732 | 1.25 | (0.431-3.36) | 0.66625 |
| Female gender | **0.45** | **(0.267-0.748)** | **0.002307\*\*** | **0.528** | **(0.309-0.891)** | **0.01779\*** |
| Private Practice | 0.738 | (0.415-1.32) | 0.301758 | 0.834 | (0.463-1.52) | 0.54909 |

*Notes: Significance codes \*p < .05. \*\*p < .01. \*\*\*p < .001*