**Table, Supplemental Digital Content 3.**  Patient Characteristics and Complete Survey Responses Stratified by Medical Condition

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** |  | **Total** | **IBD** | **Cirrhosis** | **LT recipient** | ***P*-value** |
| N |  | 1215 | 770 | 304 | 141 |  |
| Age (years), median (IQR) |  | 54 (36, 66) | 44 (32, 62) | 63 (54, 69) | 64 (57, 68) | <0.001 |
| Female | 0 | 608 (50.0%) | 336 (43.6%) | 170 (55.9%) | 102 (72.3%) | <0.001 |
|  | 1 | 607 (50.0%) | 434 (56.4%) | 134 (44.1%) | 39 (27.7%) |  |
| Black | 0 | 1139 (93.7%) | 728 (94.5%) | 288 (94.7%) | 123 (87.2%) | 0.003 |
|  | 1 | 76 (6.3%) | 42 (5.5%) | 16 (5.3%) | 18 (12.8%) |  |
| White | 0 | 164 (13.5%) | 103 (13.4%) | 34 (11.2%) | 27 (19.1%) | <0.072 |
|  | 1 | 1051 (86.5%) | 667 (86.6%) | 270 (88.8%) | 114 (80.9%) |  |
| Other | 0 | 1127 (92.8%) | 709 (92.1%) | 286 (94.1%) | 132 (93.6%) | 0.48 |
|  | 1 | 88 (7.2%) | 61 (7.9%) | 18 (5.9%) | 9 (6.4%) |  |
| Clinical Site | Hospital 1 (tertiary) | 884 (72.8%) | 470 (61.0%) | 273 (89.8%) | 141 (100.0%) | <0.001 |
|  | Hospital 2 (community) | 104 (8.6%) | 104 (13.5%) | 0 (0.0%) | 0 (0.0%) |  |
|  | Hospital 3 (community) | 198 (16.3%) | 195 (25.3%) | 3 (1.0%) | 0 (0.0%) |  |
|  | Satellite clinics | 29 (2.4%) | 1 (0.1%) | 28 (9.2%) | 0 (0.0%) |  |
| **Vaccine beliefs/behavior** |  | **Total** | **IBD** | **Cirrhosis** | **LT recipient** | ***P*-value** |
| **I believe that vaccines are safe** | Completely Disagree | 28 (2.3%) | 13 (1.7%) | 8 (2.6%) | 7 (5.0%) | 0.010 |
|  | Somewhat Disagree | 37 (3.0%) | 23 (3.0%) | 9 (3.0%) | 5 (3.5%) |  |
|  | Neutral | 73 (6.0%) | 37 (4.8%) | 22 (7.2%) | 14 (9.9%) |  |
|  | Somewhat Agree | 375 (30.9%) | 223 (29.0%) | 107 (35.2%) | 45 (31.9%) |  |
|  | Completely Agree | 702 (57.8%) | 474 (61.6%) | 158 (52.0%) | 70 (49.6%) |  |
| **I believe that vaccines are effective** | Completely Disagree | 24 (2.0%) | 14 (1.8%) | 6 (2.0%) | 4 (2.8%) | 0.057 |
|  | Somewhat Disagree | 18 (1.5%) | 11 (1.4%) | 5 (1.6%) | 2 (1.4%) |  |
|  | Neutral | 58 (4.8%) | 25 (3.2%) | 20 (6.6%) | 13 (9.2%) |  |
|  | Somewhat Agree | 349 (28.7%) | 215 (27.9%) | 92 (30.3%) | 42 (29.8%) |  |
|  | Completely Agree | 766 (63.0%) | 505 (65.6%) | 181 (59.5%) | 80 (56.7%) |  |
| **I believe that the COVID-19 vaccine will help control the pandemic** | Completely Disagree | 35 (2.9%) | 22 (2.9%) | 7 (2.3%) | 6 (4.3%) | 0.34 |
|  | Somewhat Disagree | 29 (2.4%) | 19 (2.5%) | 7 (2.3%) | 3 (2.1%) |  |
|  | Neutral | 93 (7.7%) | 52 (6.8%) | 33 (10.9%) | 8 (5.7%) |  |
|  | Somewhat Agree | 278 (22.9%) | 174 (22.6%) | 75 (24.7%) | 29 (20.6%) |  |
|  | Completely Agree | 780 (64.2%) | 503 (65.3%) | 182 (59.9%) | 95 (67.4%) |  |
|  |  |  |  |  |  |  |
| **I would follow my government's recommendation about receiving the COVID-19 vaccine** | Completely Disagree | 69 (5.7%) | 39 (5.1%) | 18 (5.9%) | 12 (8.5%) | 0.020 |
|  | Somewhat Disagree | 64 (5.3%) | 31 (4.0%) | 22 (7.2%) | 11 (7.8%) |  |
|  | Neutral | 160 (13.2%) | 90 (11.7%) | 43 (14.1%) | 27 (19.1%) |  |
|  | Somewhat Agree | 311 (25.6%) | 204 (26.5%) | 77 (25.3%) | 30 (21.3%) |  |
|  | Completely Agree | 611 (50.3%) | 406 (52.7%) | 144 (47.4%) | 61 (43.3%) |  |
| **I would follow my employer's recommendation about receiving the COVID-19 vaccine** | Completely Disagree | 103 (8.5%) | 52 (6.8%) | 28 (9.2%) | 23 (16.3%) | <0.001 |
|  | Somewhat Disagree | 54 (4.4%) | 35 (4.5%) | 15 (4.9%) | 4 (2.8%) |  |
|  | Neutral | 373 (30.7%) | 208 (27.0%) | 108 (35.5%) | 57 (40.4%) |  |
|  | Somewhat Agree | 230 (18.9%) | 153 (19.9%) | 56 (18.4%) | 21 (14.9%) |  |
|  | Completely Agree | 455 (37.4%) | 322 (41.8%) | 97 (31.9%) | 36 (25.5%) |  |
| **I would follow my PCP's recommendation about receiving the COVID-19 vaccine** | Completely Disagree | 41 (3.4%) | 25 (3.2%) | 9 (3.0%) | 7 (5.0%) | 0.27 |
|  | Somewhat Disagree | 31 (2.6%) | 19 (2.5%) | 8 (2.6%) | 4 (2.8%) |  |
|  | Neutral | 88 (7.2%) | 50 (6.5%) | 23 (7.6%) | 15 (10.6%) |  |
|  | Somewhat Agree | 231 (19.0%) | 136 (17.7%) | 71 (23.4%) | 24 (17.0%) |  |
|  | Completely Agree | 824 (67.8%) | 540 (70.1%) | 193 (63.5%) | 91 (64.5%) |  |
| **I would follow my GI/liver specialist's recommendation about receiving the COVID-19 vaccine** | Completely Disagree | 39 (3.2%) | 25 (3.2%) | 9 (3.0%) | 5 (3.5%) | 0.98 |
|  | Somewhat Disagree | 26 (2.1%) | 16 (2.1%) | 6 (2.0%) | 4 (2.8%) |  |
|  | Neutral | 41 (3.4%) | 28 (3.6%) | 10 (3.3%) | 3 (2.1%) |  |
|  | Somewhat Agree | 146 (12.0%) | 97 (12.6%) | 34 (11.2%) | 15 (10.6%) |  |
|  | Completely Agree | 963 (79.3%) | 604 (78.4%) | 245 (80.6%) | 114 (80.9%) |  |
| **If a COVID-19 vaccine is available to me, I will take it** | Completely Disagree | 58 (4.8%) | 39 (5.1%) | 12 (3.9%) | 7 (5.0%) | 0.29 |
|  | Somewhat Disagree | 40 (3.3%) | 28 (3.6%) | 6 (2.0%) | 6 (4.3%) |  |
|  | Neutral | 84 (6.9%) | 42 (5.5%) | 29 (9.5%) | 13 (9.2%) |  |
|  | Somewhat Agree | 165 (13.6%) | 105 (13.6%) | 41 (13.5%) | 19 (13.5%) |  |
|  | Completely Agree | 868 (71.4%) | 556 (72.2%) | 216 (71.1%) | 96 (68.1%) |  |
| **I get the flu vaccine every year** | Completely Disagree | 64 (5.3%) | 33 (4.3%) | 23 (7.6%) | 8 (5.7%) | 0.090 |
|  | Somewhat Disagree | 28 (2.3%) | 22 (2.9%) | 2 (0.7%) | 4 (2.8%) |  |
|  | Neutral | 36 (3.0%) | 25 (3.2%) | 10 (3.3%) | 1 (0.7%) |  |
|  | Somewhat Agree | 91 (7.5%) | 60 (7.8%) | 18 (5.9%) | 13 (9.2%) |  |
|  | Completely Agree | 996 (82.0%) | 630 (81.8%) | 251 (82.6%) | 115 (81.6%) |  |
| **COVID-19 vaccine concerns** |  | **Total** | **IBD** | **Cirrhosis** | **LT recipient** | ***P*-value** |
| **I am concerned that the COVID-19 vaccine may not be safe** | Completely Disagree | 383 (31.5%) | 238 (30.9%) | 96 (31.6%) | 49 (34.8%) | 0.011 |
|  | Somewhat Disagree | 264 (21.7%) | 181 (23.5%) | 67 (22.0%) | 16 (11.3%) |  |
|  | Neutral | 169 (13.9%) | 89 (11.6%) | 50 (16.4%) | 30 (21.3%) |  |
|  | Somewhat Agree | 297 (24.4%) | 196 (25.5%) | 67 (22.0%) | 34 (24.1%) |  |
|  | Completely Agree | 102 (8.4%) | 66 (8.6%) | 24 (7.9%) | 12 (8.5%) |  |
| **I am concerned that the COVID-19 vaccine may not be effective** | Completely Disagree | 426 (35.1%) | 267 (34.7%) | 110 (36.2%) | 49 (34.8%) | 0.58 |
|  | Somewhat Disagree | 302 (24.9%) | 204 (26.5%) | 70 (23.0%) | 28 (19.9%) |  |
|  | Neutral | 162 (13.3%) | 93 (12.1%) | 46 (15.1%) | 23 (16.3%) |  |
|  | Somewhat Agree | 269 (22.1%) | 169 (21.9%) | 67 (22.0%) | 33 (23.4%) |  |
|  | Completely Agree | 56 (4.6%) | 37 (4.8%) | 11 (3.6%) | 8 (5.7%) |  |
| **I am concerned that I will not be prioritized to get the COVID-19 vaccine** | Completely Disagree | 217 (17.9%) | 143 (18.6%) | 53 (17.4%) | 21 (14.9%) | 0.018 |
|  | Somewhat Disagree | 164 (13.5%) | 111 (14.4%) | 40 (13.2%) | 13 (9.2%) |  |
|  | Neutral | 363 (29.9%) | 234 (30.4%) | 86 (28.3%) | 43 (30.5%) |  |
|  | Somewhat Agree | 341 (28.1%) | 215 (27.9%) | 90 (29.6%) | 36 (25.5%) |  |
|  | Completely Agree | 130 (10.7%) | 67 (8.7%) | 35 (11.5%) | 28 (19.9%) |  |
| **I am concerned about COVID-19 vaccine costs** | Completely Disagree | 556 (45.8%) | 352 (45.7%) | 141 (46.4%) | 63 (44.7%) | 0.066 |
|  | Somewhat Disagree | 137 (11.3%) | 100 (13.0%) | 27 (8.9%) | 10 (7.1%) |  |
|  | Neutral | 278 (22.9%) | 179 (23.2%) | 61 (20.1%) | 38 (27.0%) |  |
|  | Somewhat Agree | 152 (12.5%) | 84 (10.9%) | 51 (16.8%) | 17 (12.1%) |  |
|  | Completely Agree | 92 (7.6%) | 55 (7.1%) | 24 (7.9%) | 13 (9.2%) |  |
| **I am concerned it will be inconvenient for me to get the COVID-19 vaccine** | Completely Disagree | 678 (55.8%) | 443 (57.5%) | 160 (52.6%) | 75 (53.2%) | 0.32 |
|  | Somewhat Disagree | 209 (17.2%) | 123 (16.0%) | 59 (19.4%) | 27 (19.1%) |  |
|  | Neutral | 195 (16.0%) | 121 (15.7%) | 52 (17.1%) | 22 (15.6%) |  |
|  | Somewhat Agree | 100 (8.2%) | 66 (8.6%) | 25 (8.2%) | 9 (6.4%) |  |
|  | Completely Agree | 33 (2.7%) | 17 (2.2%) | 8 (2.6%) | 8 (5.7%) |  |
| **Best way to get the COVID-19 vaccine** | |  |  |  |  |  |
|  |  | **Total** | **IBD** | **Cirrhosis** | **LT recipient** | ***P*-value** |
| **Medical Office** | Not At All Likely | 47 (3.9%) | 29 (3.8%) | 13 (4.3%) | 5 (3.5%) | 0.44 |
|  | Not Very Likely | 18 (1.5%) | 14 (1.8%) | 3 (1.0%) | 1 (0.7%) |  |
|  | Neutral | 81 (6.7%) | 52 (6.8%) | 19 (6.3%) | 10 (7.1%) |  |
|  | Somewhat Likely | 143 (11.8%) | 103 (13.4%) | 29 (9.5%) | 11 (7.8%) |  |
|  | Very Likely | 926 (76.2%) | 572 (74.3%) | 240 (78.9%) | 114 (80.9%) |  |
| **Drive-through Site** | Not At All Likely | 427 (35.1%) | 242 (31.4%) | 122 (40.1%) | 63 (44.7%) | 0.050 |
|  | Not Very Likely | 130 (10.7%) | 92 (11.9%) | 28 (9.2%) | 10 (7.1%) |  |
|  | Neutral | 250 (20.6%) | 161 (20.9%) | 62 (20.4%) | 27 (19.1%) |  |
|  | Somewhat Likely | 209 (17.2%) | 141 (18.3%) | 48 (15.8%) | 20 (14.2%) |  |
|  | Very Likely | 199 (16.4%) | 134 (17.4%) | 44 (14.5%) | 21 (14.9%) |  |
| **Pharmacy** | Not At All Likely | 226 (18.6%) | 125 (16.2%) | 62 (20.4%) | 39 (27.7%) | 0.087 |
|  | Not Very Likely | 99 (8.1%) | 69 (9.0%) | 22 (7.2%) | 8 (5.7%) |  |
|  | Neutral | 220 (18.1%) | 137 (17.8%) | 55 (18.1%) | 28 (19.9%) |  |
|  | Somewhat Likely | 301 (24.8%) | 199 (25.8%) | 74 (24.3%) | 28 (19.9%) |  |
|  | Very Likely | 369 (30.4%) | 240 (31.2%) | 91 (29.9%) | 38 (27.0%) |  |
| **Employer** | Not At All Likely | 709 (58.4%) | 385 (50.0%) | 208 (68.4%) | 116 (82.3%) | <0.001 |
|  | Not Very Likely | 94 (7.7%) | 64 (8.3%) | 21 (6.9%) | 9 (6.4%) |  |
|  | Neutral | 143 (11.8%) | 98 (12.7%) | 37 (12.2%) | 8 (5.7%) |  |
|  | Somewhat Likely | 90 (7.4%) | 76 (9.9%) | 11 (3.6%) | 3 (2.1%) |  |
|  | Very Likely | 179 (14.7%) | 147 (19.1%) | 27 (8.9%) | 5 (3.5%) |  |
| **Community Site** | Not At All Likely | 616 (50.7%) | 368 (47.8%) | 166 (54.6%) | 82 (58.2%) | 0.12 |
|  | Not Very Likely | 191 (15.7%) | 123 (16.0%) | 50 (16.4%) | 18 (12.8%) |  |
|  | Neutral | 205 (16.9%) | 140 (18.2%) | 44 (14.5%) | 21 (14.9%) |  |
|  | Somewhat Likely | 101 (8.3%) | 75 (9.7%) | 16 (5.3%) | 10 (7.1%) |  |
|  | Very Likely | 102 (8.4%) | 64 (8.3%) | 28 (9.2%) | 10 (7.1%) |  |

IBD-inflammatory bowel disease, LT-liver transplant