Healthcare worker survey

Global Health and Infectious Disease Group

10/15/2021

## Demographic characteristics

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| Age | 30 (26, 36) | 31 (28, 36) | 29 (25, 36) |
| Unknown | 2 | 341 | 10 |
| Gender |  |  |  |
| Male | 811 (31%) | 1,361 (43%) | 611 (60%) |
| Female | 1,834 (69%) | 1,786 (57%) | 414 (40%) |
| Unknown | 5 | 1,586 | 9 |
| Education Status |  |  |  |
| Undergraduate | 1,436 (54%) | 855 (20%) | 0 (NA%) |
| Graduate | 706 (27%) | 2,536 (58%) | 0 (NA%) |
| Post-graduate | 403 (15%) | 967 (22%) | 0 (NA%) |
| Others | 98 (3.7%) | 21 (0.5%) | 0 (NA%) |
| Unknown | 7 | 354 | 1,034 |
| Hospital Type |  |  |  |
| Public facility | 1,187 (45%) | 2,957 (68%) | 30 (2.9%) |
| Private facility | 1,287 (49%) | 753 (17%) | 435 (43%) |
| Denominational | 172 (6.5%) | 642 (15%) | 558 (55%) |
| Other | 0 (0%) | 0 (0%) | 0 (0%) |
| Unknown | 4 | 381 | 11 |
| Job Role |  |  |  |
| Non-Clinical | 2,405 (97%) | 919 (21%) | 447 (44%) |
| Clinical | 78 (3.1%) | 3,427 (79%) | 574 (56%) |
| Unknown | 167 | 387 | 13 |
| Marital Status |  |  |  |
| Prefer not to say | 1,682 (66%) | 1,726 (39%) | 493 (61%) |
| Living alone/Single | 883 (34%) | 2,259 (52%) | 312 (39%) |
| Living with a partner/Married | 0 (0%) | 393 (9.0%) | 0 (0%) |
| Unknown | 85 | 355 | 229 |
| Number of children |  |  |  |
| None | 89 (3.4%) | 1,795 (41%) | 303 (31%) |
| 1 to 2 | 1,313 (50%) | 1,501 (34%) | 358 (37%) |
| 3 to 4 | 946 (36%) | 931 (21%) | 264 (27%) |
| 5 or more | 302 (11%) | 154 (3.5%) | 54 (5.5%) |
| Unknown | 0 | 352 | 55 |
| 1Median (IQR); n (%) | | | |

## Experience

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| Previous pandemic exposure |  |  |  |
| No | 1,998 (76%) | 2,894 (66%) | 0 (0%) |
| Yes | 596 (23%) | 1,301 (30%) | 405 (43%) |
| Unsure | 51 (1.9%) | 172 (3.9%) | 538 (57%) |
| Unknown | 5 | 366 | 91 |
| Cared for respiratory pathogen |  |  |  |
| No | 2,094 (79%) | 2,900 (66%) | 0 (0%) |
| Yes | 493 (19%) | 1,270 (29%) | 312 (32%) |
| Unsure | 59 (2.2%) | 193 (4.4%) | 668 (68%) |
| Unknown | 4 | 370 | 54 |
| COVID-19 cases at your hospital |  |  |  |
| No | 1,485 (56%) | 558 (13%) | 0 (0%) |
| Yes | 992 (37%) | 3,679 (84%) | 677 (70%) |
| Unsure | 169 (6.4%) | 125 (2.9%) | 286 (30%) |
| Unknown | 4 | 371 | 71 |
| Cared for a COVID-19 victim |  |  |  |
| No | 2,324 (88%) | 1,658 (38%) | 0 (0%) |
| Yes | 231 (8.7%) | 2,537 (58%) | 393 (41%) |
| Unsure | 88 (3.3%) | 165 (3.8%) | 575 (59%) |
| Unknown | 7 | 373 | 66 |
| 1n (%) | | | |

## Social influence

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| My hospital is supported |  |  |  |
| Strongly disagree | 1,034 (40%) | 556 (13%) | 86 (8.7%) |
| Somewhat disagree | 275 (11%) | 513 (12%) | 75 (7.5%) |
| Neither agree nor disagree | 360 (14%) | 1,052 (24%) | 37 (3.7%) |
| Somwhat agree | 341 (13%) | 1,204 (28%) | 518 (52%) |
| Strongly agree | 603 (23%) | 978 (23%) | 278 (28%) |
| Unknown | 37 | 430 | 40 |
| Colleagues follow IPC measures |  |  |  |
| Strongly disagree | 145 (5.5%) | 118 (2.7%) | 85 (8.5%) |
| Somewhat disagree | 134 (5.1%) | 283 (6.6%) | 30 (3.0%) |
| Neither agree nor disagree | 300 (11%) | 403 (9.3%) | 9 (0.9%) |
| Somwhat agree | 620 (23%) | 1,753 (41%) | 405 (40%) |
| Strongly agree | 1,443 (55%) | 1,756 (41%) | 476 (47%) |
| Unknown | 8 | 420 | 29 |
| I am expected to follow IPC protocols |  |  |  |
| Strongly disagree | 54 (2.0%) | 74 (1.7%) | 79 (7.9%) |
| Somewhat disagree | 26 (1.0%) | 39 (0.9%) | 33 (3.3%) |
| Neither agree nor disagree | 171 (6.5%) | 80 (1.9%) | 28 (2.8%) |
| Somwhat agree | 900 (34%) | 585 (14%) | 500 (50%) |
| Strongly agree | 1,490 (56%) | 3,532 (82%) | 363 (36%) |
| Unknown | 9 | 423 | 31 |
| 1n (%) | | | |

## IPC

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| Type of contact |  |  |  |
| No direct contact | 22 (9.3%) | 796 (32%) | 174 (45%) |
| Direct contact | 191 (81%) | 1,189 (48%) | 177 (45%) |
| Unsure | 24 (10%) | 504 (20%) | 40 (10%) |
| Unknown | 2,413 | 2,244 | 643 |
| Aerosol generating procedure |  |  |  |
| No | 119 (51%) | 820 (69%) | 131 (100%) |
| Yes | 104 (44%) | 341 (29%) | 0 (0%) |
| Unsure | 12 (5.1%) | 25 (2.1%) | 0 (0%) |
| Unknown | 2,415 | 3,547 | 903 |
| N95 |  |  |  |
| No | 112 (48%) | 487 (41%) | 63 (86%) |
| Yes | 116 (49%) | 693 (58%) | 0 (0%) |
| Unsure | 7 (3.0%) | 6 (0.5%) | 10 (14%) |
| Unknown | 2,415 | 3,547 | 961 |
| Other masks |  |  |  |
| No | 50 (21%) | 365 (31%) | 357 (93%) |
| Yes | 180 (77%) | 811 (69%) | 0 (0%) |
| Unsure | 5 (2.1%) | 6 (0.5%) | 27 (7.0%) |
| Unknown | 2,415 | 3,551 | 650 |
| Hand hygiene |  |  |  |
| No | 17 (7.2%) | 23 (1.9%) | 226 (88%) |
| Yes | 215 (91%) | 1,158 (98%) | 0 (0%) |
| Unsure | 3 (1.3%) | 4 (0.3%) | 30 (12%) |
| Unknown | 2,415 | 3,548 | 778 |
| Gown |  |  |  |
| No | 91 (39%) | 662 (56%) | 524 (95%) |
| Yes | 140 (60%) | 516 (44%) | 0 (0%) |
| Unsure | 3 (1.3%) | 7 (0.6%) | 28 (5.1%) |
| Unknown | 2,416 | 3,548 | 482 |
| Apron |  |  |  |
| No | 106 (45%) | 664 (56%) | 314 (95%) |
| Yes | 123 (53%) | 516 (44%) | 0 (0%) |
| Unsure | 5 (2.1%) | 6 (0.5%) | 18 (5.4%) |
| Unknown | 2,416 | 3,547 | 702 |
| Full body suit |  |  |  |
| No | 114 (49%) | 753 (64%) | 129 (93%) |
| Yes | 115 (49%) | 425 (36%) | 0 (0%) |
| Unsure | 4 (1.7%) | 7 (0.6%) | 10 (7.2%) |
| Unknown | 2,417 | 3,548 | 895 |
| Gloves |  |  |  |
| No | 18 (7.7%) | 150 (13%) | 591 (96%) |
| Yes | 212 (91%) | 1,034 (87%) | 0 (0%) |
| Unsure | 3 (1.3%) | 2 (0.2%) | 27 (4.4%) |
| Unknown | 2,417 | 3,547 | 416 |
| Eye protections |  |  |  |
| No | 112 (48%) | 426 (36%) | 411 (96%) |
| Yes | 114 (49%) | 754 (64%) | 0 (0%) |
| Unsure | 6 (2.6%) | 3 (0.3%) | 18 (4.2%) |
| Unknown | 2,418 | 3,550 | 605 |
| Single-use equipments |  |  |  |
| No | 40 (17%) | 172 (15%) | 288 (89%) |
| Yes | 187 (81%) | 1,008 (85%) | 0 (0%) |
| Unsure | 5 (2.2%) | 6 (0.5%) | 34 (11%) |
| Unknown | 2,418 | 3,547 | 712 |
| 1n (%) | | | |

## Beliefs and Capabilities

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| Follow procedures |  |  |  |
| Strongly disagree | 162 (6.1%) | 121 (2.8%) | 112 (11%) |
| Somewhat disagree | 80 (3.0%) | 244 (5.6%) | 55 (5.4%) |
| Neither agree nor disagree | 212 (8.0%) | 310 (7.2%) | 26 (2.6%) |
| Somwhat agree | 663 (25%) | 1,521 (35%) | 450 (45%) |
| Strongly agree | 1,525 (58%) | 2,135 (49%) | 368 (36%) |
| Unknown | 8 | 402 | 23 |
| Protocols can prevent spread |  |  |  |
| Strongly disagree | 142 (5.4%) | 164 (3.8%) | 123 (12%) |
| Somewhat disagree | 51 (1.9%) | 262 (6.1%) | 157 (16%) |
| Neither agree nor disagree | 257 (9.7%) | 371 (8.6%) | 29 (2.9%) |
| Somwhat agree | 799 (30%) | 1,336 (31%) | 459 (46%) |
| Strongly agree | 1,394 (53%) | 2,197 (51%) | 236 (24%) |
| Unknown | 7 | 403 | 30 |
| IPC recommendations will protect me |  |  |  |
| Strongly disagree | 114 (4.3%) | 110 (2.5%) | 101 (10%) |
| Somewhat disagree | 47 (1.8%) | 141 (3.3%) | 55 (5.5%) |
| Neither agree nor disagree | 217 (8.2%) | 316 (7.3%) | 16 (1.6%) |
| Somwhat agree | 745 (28%) | 1,434 (33%) | 471 (47%) |
| Strongly agree | 1,520 (58%) | 2,321 (54%) | 360 (36%) |
| Unknown | 7 | 411 | 31 |
| IPC recommendations are straining |  |  |  |
| Strongly disagree | 659 (25%) | 760 (18%) | 171 (17%) |
| Somewhat disagree | 124 (4.7%) | 726 (17%) | 247 (25%) |
| Neither agree nor disagree | 242 (9.2%) | 720 (17%) | 31 (3.1%) |
| Somwhat agree | 562 (21%) | 1,342 (31%) | 378 (38%) |
| Strongly agree | 1,051 (40%) | 768 (18%) | 181 (18%) |
| Unknown | 12 | 417 | 26 |
| I will comply IPC protocols |  |  |  |
| Strongly disagree | 116 (4.4%) | 117 (2.7%) | 94 (9.3%) |
| Somewhat disagree | 97 (3.7%) | 68 (1.6%) | 24 (2.4%) |
| Neither agree nor disagree | 235 (9.0%) | 108 (2.5%) | 13 (1.3%) |
| Somwhat agree | 660 (25%) | 669 (15%) | 401 (40%) |
| Strongly agree | 1,514 (58%) | 3,366 (78%) | 478 (47%) |
| Unknown | 28 | 405 | 24 |
| 1n (%) | | | |

## Emotional state

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| I am encouraged to follow IPC protocols |  |  |  |
| Strongly disagree | 378 (14%) | 104 (2.4%) | 110 (11%) |
| Somewhat disagree | 145 (5.5%) | 148 (3.4%) | 176 (18%) |
| Neither agree nor disagree | 282 (11%) | 443 (10%) | 70 (7.0%) |
| Somwhat agree | 665 (25%) | 1,478 (34%) | 455 (45%) |
| Strongly agree | 1,171 (44%) | 2,134 (50%) | 191 (19%) |
| Unknown | 9 | 426 | 32 |
| Concerned about COVID-19 risk |  |  |  |
| Strongly disagree | 0 (NA%) | 129 (3.0%) | 87 (8.7%) |
| Somewhat disagree | 0 (NA%) | 143 (3.3%) | 33 (3.3%) |
| Neither agree nor disagree | 0 (NA%) | 294 (6.8%) | 22 (2.2%) |
| Somwhat agree | 0 (NA%) | 1,098 (25%) | 390 (39%) |
| Strongly agree | 0 (NA%) | 2,644 (61%) | 467 (47%) |
| Unknown | 2,650 | 425 | 35 |
| Concerned about COVID-19 risk on family |  |  |  |
| Strongly disagree | 0 (NA%) | 128 (3.0%) | 81 (8.1%) |
| Somewhat disagree | 0 (NA%) | 105 (2.4%) | 40 (4.0%) |
| Neither agree nor disagree | 0 (NA%) | 208 (4.8%) | 26 (2.6%) |
| Somwhat agree | 0 (NA%) | 896 (21%) | 389 (39%) |
| Strongly agree | 0 (NA%) | 2,977 (69%) | 468 (47%) |
| Unknown | 2,650 | 419 | 30 |
| Afraid of COVID-19 victims |  |  |  |
| Strongly disagree | 0 (NA%) | 1,027 (24%) | 126 (13%) |
| Somewhat disagree | 0 (NA%) | 923 (21%) | 247 (25%) |
| Neither agree nor disagree | 0 (NA%) | 846 (20%) | 38 (3.8%) |
| Somwhat agree | 0 (NA%) | 983 (23%) | 382 (38%) |
| Strongly agree | 0 (NA%) | 534 (12%) | 208 (21%) |
| Unknown | 2,650 | 420 | 33 |
| Acceptance of risk |  |  |  |
| Strongly disagree | 0 (NA%) | 268 (6.2%) | 146 (15%) |
| Somewhat disagree | 0 (NA%) | 219 (5.1%) | 112 (11%) |
| Neither agree nor disagree | 0 (NA%) | 443 (10%) | 26 (2.6%) |
| Somwhat agree | 0 (NA%) | 1,318 (31%) | 426 (43%) |
| Strongly agree | 0 (NA%) | 2,062 (48%) | 286 (29%) |
| Unknown | 2,650 | 423 | 38 |
| Control over risk |  |  |  |
| Strongly disagree | 0 (NA%) | 464 (11%) | 140 (14%) |
| Somewhat disagree | 0 (NA%) | 592 (14%) | 200 (20%) |
| Neither agree nor disagree | 0 (NA%) | 812 (19%) | 53 (5.3%) |
| Somwhat agree | 0 (NA%) | 1,357 (31%) | 411 (41%) |
| Strongly agree | 0 (NA%) | 1,086 (25%) | 192 (19%) |
| Unknown | 2,650 | 422 | 38 |
| 1n (%) | | | |

## Envoronmental context and resources

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| IPC protocols are in my hospital |  |  |  |
| Strongly disagree | 182 (6.9%) | 173 (4.0%) | 104 (10%) |
| Somewhat disagree | 78 (3.0%) | 309 (7.2%) | 100 (10%) |
| Neither agree nor disagree | 223 (8.4%) | 409 (9.5%) | 27 (2.7%) |
| Somwhat agree | 524 (20%) | 1,405 (33%) | 516 (52%) |
| Strongly agree | 1,635 (62%) | 2,018 (47%) | 253 (25%) |
| Unknown | 8 | 419 | 34 |
| PPE are accessible |  |  |  |
| Strongly disagree | 671 (25%) | 612 (14%) | 129 (13%) |
| Somewhat disagree | 220 (8.3%) | 784 (18%) | 207 (21%) |
| Neither agree nor disagree | 311 (12%) | 599 (14%) | 32 (3.2%) |
| Somwhat agree | 575 (22%) | 1,331 (31%) | 429 (43%) |
| Strongly agree | 864 (33%) | 988 (23%) | 209 (21%) |
| Unknown | 9 | 419 | 28 |
| There are isolation facilities |  |  |  |
| Strongly disagree | 1,670 (63%) | 587 (14%) | 224 (23%) |
| Somewhat disagree | 103 (3.9%) | 315 (7.3%) | 214 (22%) |
| Neither agree nor disagree | 216 (8.2%) | 321 (7.4%) | 31 (3.1%) |
| Somwhat agree | 201 (7.6%) | 920 (21%) | 321 (32%) |
| Strongly agree | 450 (17%) | 2,172 (50%) | 205 (21%) |
| Unknown | 10 | 418 | 39 |
| There is a contact person after exposure |  |  |  |
| Strongly disagree | 356 (13%) | 353 (8.2%) | 156 (16%) |
| Somewhat disagree | 143 (5.4%) | 327 (7.6%) | 195 (20%) |
| Neither agree nor disagree | 233 (8.8%) | 448 (10%) | 65 (6.5%) |
| Somwhat agree | 890 (34%) | 1,276 (30%) | 412 (41%) |
| Strongly agree | 1,017 (39%) | 1,905 (44%) | 167 (17%) |
| Unknown | 11 | 424 | 39 |
| 1n (%) | | | |

## Trust in health facility

| Characteristic | Cameroon, N = 2,6501 | Ghana, N = 4,7331 | Uganda, N = 1,0341 |
| --- | --- | --- | --- |
| IPC protocols are in my hospital |  |  |  |
| Strongly disagree | 182 (6.9%) | 173 (4.0%) | 104 (10%) |
| Somewhat disagree | 78 (3.0%) | 309 (7.2%) | 100 (10%) |
| Neither agree nor disagree | 223 (8.4%) | 409 (9.5%) | 27 (2.7%) |
| Somwhat agree | 524 (20%) | 1,405 (33%) | 516 (52%) |
| Strongly agree | 1,635 (62%) | 2,018 (47%) | 253 (25%) |
| Unknown | 8 | 419 | 34 |
| PPE are accessible |  |  |  |
| Strongly disagree | 671 (25%) | 612 (14%) | 129 (13%) |
| Somewhat disagree | 220 (8.3%) | 784 (18%) | 207 (21%) |
| Neither agree nor disagree | 311 (12%) | 599 (14%) | 32 (3.2%) |
| Somwhat agree | 575 (22%) | 1,331 (31%) | 429 (43%) |
| Strongly agree | 864 (33%) | 988 (23%) | 209 (21%) |
| Unknown | 9 | 419 | 28 |
| There are isolation facilities |  |  |  |
| Strongly disagree | 1,670 (63%) | 587 (14%) | 224 (23%) |
| Somewhat disagree | 103 (3.9%) | 315 (7.3%) | 214 (22%) |
| Neither agree nor disagree | 216 (8.2%) | 321 (7.4%) | 31 (3.1%) |
| Somwhat agree | 201 (7.6%) | 920 (21%) | 321 (32%) |
| Strongly agree | 450 (17%) | 2,172 (50%) | 205 (21%) |
| Unknown | 10 | 418 | 39 |
| There is a contact person after exposure |  |  |  |
| Strongly disagree | 356 (13%) | 353 (8.2%) | 156 (16%) |
| Somewhat disagree | 143 (5.4%) | 327 (7.6%) | 195 (20%) |
| Neither agree nor disagree | 233 (8.8%) | 448 (10%) | 65 (6.5%) |
| Somwhat agree | 890 (34%) | 1,276 (30%) | 412 (41%) |
| Strongly agree | 1,017 (39%) | 1,905 (44%) | 167 (17%) |
| Unknown | 11 | 424 | 39 |
| 1n (%) | | | |