**DisComp Sample Size**

Recommendation – sample 3,371 veterans each week to obtain an overall margin of error (MOE) of 2% for the Trust score

Assumptions

* 20% response rate
* 89% working email rate
* 30-day rolling proportions
* Weekly sampling cadence

MTM Outpatient Quarantine Assumptions – based on previous review of DicComp population

The population counts used for sampling were adjusted to account for quarantine effects from the MTM Outpatient surveys. The final weekly population size was estimated to be 51,275 veterans.

|  |  |
| --- | --- |
|  | **% veterans excluded by quarantine** |
| **Total** | **9.10%** |
| Filing Only | 8.37% |
| Vendor Scheduling Only | 7.76% |
| Vendor Exams Only | 4.98% |
| VHA Scheduling Only | 13.21% |
| trVHA Exams Only | 14.74% |
| Notification Only | 9.46% |
| Multiple Events | 8.64% |

Two sampling strategies were examined

1. Reach an overall target level of precision for the Trust score: MOE = 2%
2. Obtain 10 respondents per stratum

Table 1 shows that, while providing a smaller fielded sample size, the MOE is increased for the 10-respondent strategy. Furthermore, targeting a MOE = 2% only samples 6.57% of the weekly popultion

 Table 1. Overall sample strategy comparison

|  |  |  |
| --- | --- | --- |
|   | **Overall MOE = 2%** | **10 Responses Per Stratum** |
| MOE | 0.02 | 0.04 |
| Total sample size | 2,401 | 700 |
| Total weekly sample size | 600 | 175 |
| Total fielded sample size | 13,489 | 3,933 |
| total weekly fielded sample size | 3,371 | 983 |
| % of population fielded each week | 6.57% | 1.92% |

Table 2 shows that targeting the overall MOE = 2% results in much smaller MOE’s for each of the stratum variables, suggesting a more precise estimate.

Table 2. Stratum variable sample comparison

|  |  |  |
| --- | --- | --- |
|  | **Overall MOE = 2%** | **10 Responses Per Stratum** |
| **Target Sample Size** | **MOE** | **Weekly Fielded Sample Size** | **Target Sample Size** | **MOE** | **Weekly Fielded Sample Size** |
| Gender |
| F | 349 | 5.25% | 493 | 350 | 5.24% | 490 |
| M | 2,053 | 2.16% | 2877 | 350 | 5.24% | 490 |
| Age Group |
| <= 29 | 337 | 5.34% | 470 | 140 | 8.28% | 196 |
| 30-39 | 553 | 4.17% | 778 | 140 | 8.28% | 196 |
| 40-49 | 495 | 4.40% | 694 | 140 | 8.28% | 196 |
| 50-59 | 443 | 4.66% | 622 | 140 | 8.28% | 196 |
| 60+ | 574 | 4.09% | 806 | 140 | 9.8% | 196 |
| Event |
| Filing | 498 | 4.39% | 698 | 100 | 9.80% | 140 |
| Vendor Scheduling | 451 | 4.61% | 633 | 100 | 9.80% | 140 |
| Vendor Exams | 284 | 5.82% | 399 | 100 | 9.80% | 140 |
| VHA Scheduling | 113 | 9.22% | 158 | 100 | 9.80% | 140 |
| VHA Exams | 172 | 7.47% | 243 | 100 | 9.80% | 140 |
| Notification | 634 | 3.89% | 890 | 100 | 9.80% | 140 |
| Multiple Events | 184 | 7.22% | 256 | 100 | 9.80% | 140 |

Table 3. Population and sample sizes for OMB

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gender | AgeGroup | Filing | Vendor Scheduling | Vendor Exams | VHA Scheduling | VHA Exams | Notification | Multiple Events |
|   | Population | weekly fielded sample | Population | weekly fielded sample | Population | weekly fielded sample | Population | weekly fielded sample | Population | weekly fielded sample | Population | weekly fielded sample | Population | weekly fielded sample |
| F | <= 29 | 285 | 19 | 303 | 20 | 235 | 15 | 46 | 3 | 78 | 5 | 323 | 21 | 147 | 10 |
| F | 30 - 39 | 486 | 32 | 487 | 32 | 315 | 21 | 109 | 7 | 160 | 11 | 518 | 34 | 180 | 12 |
| F | 40 - 49 | 384 | 25 | 426 | 28 | 280 | 18 | 68 | 4 | 137 | 9 | 419 | 28 | 143 | 9 |
| F | 50 - 59 | 318 | 21 | 312 | 21 | 178 | 12 | 63 | 4 | 101 | 7 | 359 | 24 | 103 | 7 |
| F | >= 60 | 117 | 8 | 92 | 6 | 50 | 3 | 29 | 2 | 40 | 3 | 156 | 10 | 38 | 2 |
| M | <= 29 | 1100 | 72 | 1315 | 86 | 808 | 53 | 171 | 11 | 317 | 21 | 1477 | 97 | 567 | 37 |
| M | 30 - 39 | 1921 | 126 | 1971 | 130 | 1315 | 86 | 445 | 29 | 715 | 47 | 2356 | 155 | 858 | 56 |
| M | 40 - 49 | 1761 | 116 | 1877 | 123 | 1244 | 82 | 397 | 26 | 593 | 39 | 2179 | 143 | 662 | 44 |
| M | 50 - 59 | 1680 | 110 | 1611 | 106 | 983 | 65 | 411 | 27 | 598 | 39 | 2135 | 140 | 589 | 39 |
| M | >= 60 | 2859 | 188 | 1529 | 101 | 897 | 59 | 726 | 48 | 1017 | 67 | 3943 | 259 | 763 | 50 |
| Total | 10911 | 698 | 9923 | 633 | 6305 | 399 | 2465 | 158 | 3756 | 243 | 13865 | 890 | 4050 | 256 |