## Spotlight: Online Depression Screening

Screening improves the chances of getting treatment. Primary care physicians providing usual care miss $30 \%$ to $50 \%$ of depressed patients and likely fail to recognize many common mental health disorders. However, when results from a positive screening are included in the chart, doctors were over 3 times more likely to recognize the symptoms of mental illness and to plan to follow-up with people about their mental health concerns. ${ }^{7-9}$

MHA provides individuals with free, anonymous, and confidential screening tools that allow people to explore their mental health concerns and bring results to a provider through our MHA Screening program (at www.mhascreening.org). The site hosts scientifically validated screening tools commonly used by mental health and primary health practitioners. MHA Screening started with just four screens: depression, anxiety, bipolar, and PTSD. Over time we added screens for substance and alcohol use, youth and parents, and psychosis. In 2017, we launched Spanish language screens for depression and anxiety and an eating disorder screen.

As part of our program, we asked users to share voluntary demographic data. The analysis of screening results has assisted in the development of public education campaigns, needs assessments, and program development to better meet the needs of individuals, families and communities seeking supports online.

The screening most often taken by users online has been the depression screen (the Patient Health Questionnaire-9 or PHQ-9). Today, an average of 2,700 individuals come online to take a screen per day, and about 50 percent of those screens are depression screens. The following information includes analysis of our state level data from our depression screens from May 2014 through December 2016) and demographic data analysis from 2016.

The PHQ-9 asks the questions below. For each question, individuals check among the following options: Not at all, Several Days, More than half the days, and Nearly Every day.

## Patient Health Questionnaire (PHQ-9)

Over the last 2 weeks, how often have you been bothered by any of the following problems?

1. Little interest or pleasure in doing things.
2. Feeling down, depressed, or hopeless.
3. Trouble falling or staying asleep, or sleeping too much.
4. Feeling tired or having little energy.
5. Poor appetite or overeating.

[^0]6. Feeling bad about yourself - or that you are a failure or have let yourself or your family down.
7. Trouble concentrating on things, such as reading the newspaper or watching television.
8. Moving or speaking so slowly that other people could have noticed.
9. Thoughts that you would be better off dead, or of hurting yourself.

## Score Interpretation

Score and results are measured by adding up all checked boxes on PHQ-9. For every $\checkmark$ Not at all $=0$ points; Several days $=1$ point; More than half the days $=2$ points; and Nearly every day $=3$ points.

Results are categorized based on scores.
1-4 = Minimal depression
5-9 =Mild depression
10-14 = Moderate depression
15-19 = Moderately severe depression
20-27 = Severe depression
To view the screening online, visit http://www.mentalhealthamerica.net/mental-health-screen/patienthealth

## State Level Data Analysis of Online Depression Screening (2014 - 2016)

The analysis in this section is from data collected between May 2014 through December 2016.
During this period, 508,393 individuals provided MHA with information about which state they lived in. The average number of screening results among the ten states with the smallest sample size is 1,523 screens. The average number of screens among our largest states is 27,511 screens. Wyoming had the fewest number of screening results with 1,052 screens, and California had the largest sample (57,891 screens).

Among states, only 15.86 percent of screeners scored Minimal and Mild Depression while 59.70 percent scored Moderately Severe and Severely Depressed.


Minnesota (ranked $2^{\text {nd }}$ after District of Columbia) had the lowest percentage of Severely Depressed screeners (24.51\%). Nevada had the highest percentage of Severely Depressed screeners (33.72\%)

33.72\%
of Nevadans report being Severely Depressed

## Depression Screen Results by State (Count in Alphabetical Order)

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |

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| West Virginia | 79 | 271 | 631 | 805 | 904 | 2,690 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wisconsin | 374 | 1,316 | 2,501 | 3,109 | 2,801 | 10,101 |
| Wyoming | 44 | 133 | 271 | 305 | 299 | 1,052 |
| National | 18,680 | 61,958 | 124,226 | 154,994 | 148,535 | 508,393 |

## Depression Screen Results by State (Percent by Rank of Severe Depression)

| Rank | Depression Results | Minimal Depression | Mild <br> Depression | Moderate Depression | Moderately Severe Depression | Severe Depression | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | District of Columbia | 7.54\% | 19.83\% | 28.59\% | 24.57\% | 19.46\% | 100.00\% |
| 2 | Minnesota | 4.96\% | 14.58\% | 26.77\% | 29.18\% | 24.51\% | 100.00\% |
| 3 | North Dakota | 5.23\% | 15.61\% | 24.65\% | 29.87\% | 24.65\% | 100.00\% |
| 4 | Utah | 12.18\% | 16.64\% | 21.99\% | 24.53\% | 24.68\% | 100.00\% |
| 5 | Massachusetts | 3.20\% | 14.46\% | 27.78\% | 29.57\% | 24.99\% | 100.00\% |
| 6 | Maryland | 4.02\% | 13.79\% | 25.78\% | 30.55\% | 25.86\% | 100.00\% |
| 7 | Nebraska | 7.84\% | 13.90\% | 24.17\% | 27.65\% | 26.43\% | 100.00\% |
| 8 | lowa | 3.68\% | 12.97\% | 26.06\% | 30.17\% | 27.12\% | 100.00\% |
| 9 | Delaware | 3.53\% | 12.78\% | 24.94\% | 31.23\% | 27.52\% | 100.00\% |
| 10 | New York | 3.50\% | 12.75\% | 25.79\% | 30.42\% | 27.54\% | 100.00\% |
| 11 | Connecticut | 3.15\% | 13.21\% | 25.65\% | 30.31\% | 27.67\% | 100.00\% |
| 12 | Rhode Island | 2.46\% | 13.51\% | 25.68\% | 30.65\% | 27.70\% | 100.00\% |
| 13 | New Jersey | 3.58\% | 12.63\% | 25.09\% | 30.97\% | 27.73\% | 100.00\% |
| 14 | Wisconsin | 3.70\% | 13.03\% | 24.76\% | 30.78\% | 27.73\% | 100.00\% |
| 15 | Vermont | 3.32\% | 15.21\% | 25.53\% | 28.20\% | 27.74\% | 100.00\% |
| 16 | Illinois | 3.41\% | 12.91\% | 24.74\% | 31.01\% | 27.94\% | 100.00\% |
| 17 | Colorado | 3.84\% | 13.51\% | 23.97\% | 30.69\% | 27.99\% | 100.00\% |
| 18 | Pennsylvania | 3.23\% | 12.41\% | 25.33\% | 31.02\% | 28.00\% | 100.00\% |
| 19 | New Hampshire | 2.82\% | 13.11\% | 25.21\% | 30.56\% | 28.30\% | 100.00\% |
| 20 | South Dakota | 4.90\% | 13.04\% | 26.00\% | 27.66\% | 28.41\% | 100.00\% |
| 21 | Wyoming | 4.18\% | 12.64\% | 25.76\% | 28.99\% | 28.42\% | 100.00\% |
| 22 | California | 3.70\% | 12.58\% | 24.71\% | 30.54\% | 28.46\% | 100.00\% |
| 23 | Hawaii | 4.47\% | 11.59\% | 24.22\% | 31.02\% | 28.70\% | 100.00\% |
| 24 | Montana | 3.38\% | 13.03\% | 23.82\% | 30.81\% | 28.97\% | 100.00\% |
| 25 | Virginia | 3.15\% | 12.36\% | 24.46\% | 31.03\% | 29.00\% | 100.00\% |
| 26 | Michigan | 3.13\% | 12.00\% | 25.17\% | 30.62\% | 29.08\% | 100.00\% |
| 27 | Alaska | 3.96\% | 13.44\% | 24.15\% | 29.17\% | 29.27\% | 100.00\% |
| 28 | Oregon | 3.36\% | 12.28\% | 24.73\% | 30.34\% | 29.29\% | 100.00\% |
| 29 | North Carolina | 3.45\% | 12.32\% | 24.62\% | 30.27\% | 29.34\% | 100.00\% |
| 30 | Missouri | 3.08\% | 12.06\% | 24.27\% | 30.68\% | 29.91\% | 100.00\% |
| 31 | Georgia | 6.86\% | 11.15\% | 22.91\% | 29.08\% | 30.00\% | 100.00\% |
| 32 | Kansas | 3.07\% | 12.26\% | 24.02\% | 30.63\% | 30.02\% | 100.00\% |
| 33 | Ohio | 2.94\% | 11.15\% | 24.52\% | 31.35\% | 30.04\% | 100.00\% |
| 34 | Washington | 2.90\% | 12.19\% | 24.43\% | 30.17\% | 30.31\% | 100.00\% |
| 35 | Maine | 2.76\% | 11.00\% | 24.22\% | 31.48\% | 30.54\% | 100.00\% |
| 36 | Indiana | 3.94\% | 11.53\% | 23.74\% | 30.09\% | 30.70\% | 100.00\% |
| 37 | Arkansas | 4.34\% | 11.33\% | 22.75\% | 30.76\% | 30.82\% | 100.00\% |
| 38 | Louisiana | 2.76\% | 10.24\% | 23.96\% | 32.20\% | 30.83\% | 100.00\% |
| 39 | Florida | 3.63\% | 11.49\% | 23.25\% | 30.53\% | 31.10\% | 100.00\% |
| 40 | Alabama | 2.93\% | 10.84\% | 23.90\% | 31.22\% | 31.10\% | 100.00\% |
| 41 | New Mexico | 2.94\% | 11.13\% | 23.98\% | 30.55\% | 31.40\% | 100.00\% |
| 42 | Arizona | 4.17\% | 11.48\% | 22.67\% | 30.26\% | 31.42\% | 100.00\% |
| 43 | Texas | 2.88\% | 10.81\% | 23.44\% | 31.30\% | 31.57\% | 100.00\% |
| 44 | Tennessee | 3.10\% | 10.32\% | 23.90\% | 31.02\% | 31.67\% | 100.00\% |
| 45 | Kentucky | 2.57\% | 10.37\% | 22.81\% | 31.90\% | 32.36\% | 100.00\% |

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| 46 | Idaho | $2.87 \%$ | $10.69 \%$ | $23.48 \%$ | $30.59 \%$ | $32.38 \%$ | $100.00 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 47 | South Carolina | $2.38 \%$ | $10.51 \%$ | $22.93 \%$ | $31.32 \%$ | $32.86 \%$ |  |
| 48 | Mississippi | $3.55 \%$ | $9.88 \%$ | $23.38 \%$ | $30.28 \%$ | $32.91 \%$ |  |
| 49 | West Virginia | $2.94 \%$ | $10.07 \%$ | $23.46 \%$ | $29.93 \%$ | $33.61 \%$ |  |
| 50 | Oklahoma | $2.21 \%$ | $10.39 \%$ | $23.24 \%$ | $30.49 \%$ | $33.66 \%$ | $100.00 \%$ |
| 51 | Nevada | $3.38 \%$ | $9.89 \%$ | $22.13 \%$ | $30.87 \%$ | $33.72 \%$ | $100.00 \%$ |
|  | National | $\mathbf{3 . 6 7 \%}$ | $\mathbf{1 2 . 1 9 \%}$ | $\mathbf{2 4 . 4 4 \%}$ | $\mathbf{3 0 . 4 9 \%}$ | $\mathbf{2 9 . 2 2 \%}$ | $\mathbf{1 0 0 . 0 0 \%}$ |
|  |  |  |  |  |  |  |  |

## Self-Harm and Suicidal Thoughts

Question 9 of the PHQ-9 asks screeners how often they have "Thoughts that you would be better off dead, or of hurting yourself."

Across the US, $31.73 \%$ of all screeners report significant thoughts of suicide or self-harm (having thoughts that they would be better off dead, or of hurting themselves more than half the days and nearly every day during the last 2 weeks).
48.77\% of screeners age 11-17 report having significant thoughts about self-harm or suicide compared to adults over 18 (24.21\%).

Age and Self Harm


North Dakota (ranked $2^{\text {nd }}$ after District of Columbia) had the lowest rate of thoughts of self-harm and suicide (13.97\%). Nevada had the highest rate of thoughts of self-harm and suicide (22.18\%).

of North Dakotans
report significant
13.97\%
thoughts of suicide and self-
harm


### 22.18\%

 of Nevadans report significant thoughts of suicide and self-Self-Harm and Suicidal Thoughts by State (Count in Alphabetical Order)

| State | Not at all | Several days | More than half the days | Nearly every day | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 3,403 | 1,635 | 990 | 1,415 | 7,443 |
| Alaska | 898 | 425 | 255 | 393 | 1,971 |
| Arizona | 5,521 | 2,748 | 1,783 | 2,309 | 12,361 |
| Arkansas | 2,250 | 1,064 | 646 | 861 | 4,821 |
| California | 26,239 | 13,169 | 8,132 | 10,351 | 57,891 |
| Colorado | 4,619 | 2,310 | 1,481 | 1,804 | 10,214 |
| Connecticut | 2,977 | 1,424 | 909 | 1,130 | 6,440 |
| Delaware | 717 | 337 | 235 | 299 | 1,588 |
| District Of Columbia | 977 | 345 | 150 | 172 | 1,644 |
| Florida | 11,647 | 5,697 | 3,537 | 4,844 | 25,725 |
| Georgia | 7,257 | 3,281 | 2,100 | 2,698 | 15,336 |
| Hawaii | 952 | 504 | 303 | 433 | 2,192 |
| Idaho | 1,270 | 616 | 426 | 542 | 2,854 |
| Illinois | 9,667 | 4,805 | 3,000 | 3,720 | 21,192 |
| Indiana | 6,063 | 2,907 | 1,919 | 2,521 | 13,410 |
| Iowa | 2,805 | 1,338 | 767 | 964 | 5,874 |
| Kansas | 2,248 | 1,109 | 763 | 963 | 5,083 |
| Kentucky | 3,147 | 1,434 | 970 | 1,298 | 6,849 |
| Louisiana | 2,350 | 1,153 | 712 | 893 | 5,108 |
| Maine | 872 | 474 | 303 | 378 | 2,027 |
| Maryland | 4,892 | 2,312 | 1,388 | 1,600 | 10,192 |
| Massachusetts | 5,722 | 2,698 | 1,598 | 1,758 | 11,776 |
| Michigan | 7,087 | 3,552 | 2,202 | 2,823 | 15,664 |
| Minnesota | 5,648 | 2,471 | 1,444 | 1,757 | 11,320 |
| Mississippi | 1,470 | 655 | 438 | 564 | 3,127 |
| Missouri | 4,487 | 2,165 | 1,230 | 1,813 | 9,695 |
| Montana | 763 | 376 | 258 | 291 | 1,688 |
| Nebraska | 1,851 | 796 | 464 | 600 | 3,711 |
| Nevada | 1,772 | 911 | 629 | 944 | 4,256 |
| New Hampshire | 962 | 492 | 321 | 391 | 2,166 |
| New Jersey | 6,005 | 3,020 | 1,946 | 2,319 | 13,290 |
| New Mexico | 1,148 | 573 | 404 | 490 | 2,615 |
| New York | 13,495 | 6,591 | 4,162 | 5,087 | 29,335 |
| North Carolina | 6,568 | 3,177 | 1,899 | 2,412 | 14,056 |
| North Dakota | 723 | 258 | 171 | 187 | 1,339 |
| Ohio | 9,428 | 4,794 | 3,107 | 3,886 | 21,215 |
| Oklahoma | 2,794 | 1,341 | 866 | 1,148 | 6,149 |
| Oregon | 3,368 | 1,644 | 978 | 1,176 | 7,166 |
| Pennsylvania | 9,107 | 4,762 | 2,930 | 3,505 | 20,304 |
| Rhode Island | 758 | 397 | 215 | 258 | 1,628 |
| South Carolina | 2,884 | 1,397 | 890 | 1,174 | 6,345 |
| South Dakota | 565 | 266 | 172 | 201 | 1,204 |
| Tennessee | 4,616 | 2,191 | 1,375 | 1,761 | 9,943 |
| Texas | 18,158 | 9,053 | 5,819 | 7,904 | 40,934 |
| Utah | 4,086 | 1,439 | 808 | 1,067 | 7,400 |
| Vermont | 508 | 248 | 150 | 179 | 1,085 |
| Virginia | 6,607 | 3,351 | 1,919 | 2,581 | 14,458 |


| Washington | 5,732 | 2,774 | 1,738 | 2,222 | 12,466 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| West Virginia | 1,163 | 632 | 392 | 503 | 2,690 |
| Wisconsin | 4,756 | 2,210 | 1,374 | 1,761 | 10,101 |
| Wyoming | 514 | 231 | 121 | 186 | 1,052 |
| National | $\mathbf{2 3 3 , 5 1 6}$ | $\mathbf{1 1 3 , 5 5 2}$ | $\mathbf{7 0 , 7 8 9}$ | $\mathbf{9 0 , 5 3 6}$ | $\mathbf{5 0 8 , 3 9 3}$ |

Self-Harm and Suicidal Thoughts by State (Percent by Rank of Thoughts Nearly Every day)

| State | Not at all | Several days | More than half the days | Nearly every day | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| District Of Columbia | 59.43\% | 20.99\% | 9.12\% | 10.46\% | 100.00\% |
| North Dakota | 54.00\% | 19.27\% | 12.77\% | 13.97\% | 100.00\% |
| Utah | 55.22\% | 19.45\% | 10.92\% | 14.42\% | 100.00\% |
| Massachusetts | 48.59\% | 22.91\% | 13.57\% | 14.93\% | 100.00\% |
| Minnesota | 49.89\% | 21.83\% | 12.76\% | 15.52\% | 100.00\% |
| Maryland | 48.00\% | 22.68\% | 13.62\% | 15.70\% | 100.00\% |
| Rhode Island | 46.56\% | 24.39\% | 13.21\% | 15.85\% | 100.00\% |
| Nebraska | 49.88\% | 21.45\% | 12.50\% | 16.17\% | 100.00\% |
| Oregon | 47.00\% | 22.94\% | 13.65\% | 16.41\% | 100.00\% |
| lowa | 47.75\% | 22.78\% | 13.06\% | 16.41\% | 100.00\% |
| Vermont | 46.82\% | 22.86\% | 13.82\% | 16.50\% | 100.00\% |
| South Dakota | 46.93\% | 22.09\% | 14.29\% | 16.69\% | 100.00\% |
| North Carolina | 46.73\% | 22.60\% | 13.51\% | 17.16\% | 100.00\% |
| Montana | 45.20\% | 22.27\% | 15.28\% | 17.24\% | 100.00\% |
| Pennsylvania | 44.85\% | 23.45\% | 14.43\% | 17.26\% | 100.00\% |
| New York | 46.00\% | 22.47\% | 14.19\% | 17.34\% | 100.00\% |
| Wisconsin | 47.08\% | 21.88\% | 13.60\% | 17.43\% | 100.00\% |
| New Jersey | 45.18\% | 22.72\% | 14.64\% | 17.45\% | 100.00\% |
| Louisiana | 46.01\% | 22.57\% | 13.94\% | 17.48\% | 100.00\% |
| Connecticut | 46.23\% | 22.11\% | 14.11\% | 17.55\% | 100.00\% |
| Illinois | 45.62\% | 22.67\% | 14.16\% | 17.55\% | 100.00\% |
| Georgia | 47.32\% | 21.39\% | 13.69\% | 17.59\% | 100.00\% |
| Colorado | 45.22\% | 22.62\% | 14.50\% | 17.66\% | 100.00\% |
| Wyoming | 48.86\% | 21.96\% | 11.50\% | 17.68\% | 100.00\% |
| Tennessee | 46.42\% | 22.04\% | 13.83\% | 17.71\% | 100.00\% |
| Washington | 45.98\% | 22.25\% | 13.94\% | 17.82\% | 100.00\% |
| Virginia | 45.70\% | 23.18\% | 13.27\% | 17.85\% | 100.00\% |
| Arkansas | 46.67\% | 22.07\% | 13.40\% | 17.86\% | 100.00\% |
| California | 45.32\% | 22.75\% | 14.05\% | 17.88\% | 100.00\% |
| Michigan | 45.24\% | 22.68\% | 14.06\% | 18.02\% | 100.00\% |
| Mississippi | 47.01\% | 20.95\% | 14.01\% | 18.04\% | 100.00\% |
| New Hampshire | 44.41\% | 22.71\% | 14.82\% | 18.05\% | 100.00\% |
| Ohio | 44.44\% | 22.60\% | 14.65\% | 18.32\% | 100.00\% |
| South Carolina | 45.45\% | 22.02\% | 14.03\% | 18.50\% | 100.00\% |
| Maine | 43.02\% | 23.38\% | 14.95\% | 18.65\% | 100.00\% |
| Oklahoma | 45.44\% | 21.81\% | 14.08\% | 18.67\% | 100.00\% |
| Arizona | 44.66\% | 22.23\% | 14.42\% | 18.68\% | 100.00\% |
| West Virginia | 43.23\% | 23.49\% | 14.57\% | 18.70\% | 100.00\% |
| Missouri | 46.28\% | 22.33\% | 12.69\% | 18.70\% | 100.00\% |
| New Mexico | 43.90\% | 21.91\% | 15.45\% | 18.74\% | 100.00\% |
| Indiana | 45.21\% | 21.68\% | 14.31\% | 18.80\% | 100.00\% |
| Delaware | 45.15\% | 21.22\% | 14.80\% | 18.83\% | 100.00\% |


| Florida | $45.28 \%$ | $22.15 \%$ | $13.75 \%$ | $18.83 \%$ | $100.00 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Kansas | $44.23 \%$ | $21.82 \%$ | $15.01 \%$ | $18.95 \%$ | $100.00 \%$ |
| Kentucky | $45.95 \%$ | $20.94 \%$ | $14.16 \%$ | $18.95 \%$ | $100.00 \%$ |
| Idaho | $44.50 \%$ | $21.58 \%$ | $14.93 \%$ | $18.99 \%$ | $100.00 \%$ |
| Alabama | $45.72 \%$ | $21.97 \%$ | $13.30 \%$ | $19.01 \%$ | $100.00 \%$ |
| Texas | $44.36 \%$ | $22.12 \%$ | $14.22 \%$ | $19.31 \%$ | $100.00 \%$ |
| Hawaii | $43.43 \%$ | $22.99 \%$ | $13.82 \%$ | $19.75 \%$ | $100.00 \%$ |
| Alaska | $45.56 \%$ | $21.56 \%$ | $12.94 \%$ | $19.94 \%$ | $100.00 \%$ |
| Nevada | $41.64 \%$ | $21.41 \%$ | $14.78 \%$ | $\mathbf{2 2 . 1 8 \%}$ | $100.00 \%$ |
| National | $\mathbf{4 5 . 9 3 \%}$ | $\mathbf{2 2 . 3 4 \%}$ | $\mathbf{1 3 . 9 2 \%}$ | $\mathbf{1 7 . 8 1 \%}$ | $\mathbf{1 0 0 . 0 0 \%}$ |
|  |  |  |  |  |  |

## Demographics Data Analysis (2016)

In 2016, 1,036,543 individuals visited MHA's website to take a screening test. This section breaks down the results from the Depression screenings by demographics. Over 43 million, or $18.5 \%$, people will experience a mental health condition every year. Within this larger population, variation exists among sub-populations. Using an intersectional framework allows for an in-depth analysis of mental health trends. The intersection of sex, age, race, income, and sexual orientation is a factor that should be considered when assessing prevalence rates, and identifying potential barriers to treatment.

## General Demographics

Sixty percent of individuals who completed the Depression screening screened for Moderately Severe Depression or Severe Depression.

## Depression Results



Even among those who score with Moderately Severe and Severe Depression, 70\%
report they had never been diagnosed by a provider.

Moderately Severe
Depression

| $73.97 \%$ | $65.83 \%$ | $70.02 \%$ |
| :---: | :---: | :---: |
| $26.03 \%$ | $34.17 \%$ | $29.98 \%$ |
| $100.00 \%$ | $100.00 \%$ | $100.00 \%$ |

Sixty-eight percent of screeners ages 11-17 screened Moderately Severe Depression or Severe
Depression. More than 50\% of screeners ages 18-24 screened Moderately Severe Depression or Severe Depression.

## Depression Results by Age



Native Americans had the highest rates of Severe Depression results. Across all races/ethnic groups most screeners scored with Moderately Severe Depression or Severe Depression.

# Depression Results by Race/Ethnicity 



Forty-one percent of those who identified as LGBTQ scored Severely Depressed, higher than any other special population. Sixty-three percent of those who identified as a student and caregivers and more than $50 \%$ of new or expecting mothers and veteran or active duty members had results indicating significant depression.

## Sex, Age, Race, and Income

Female screeners score higher on depression results as compared to males. Two-thirds (62\%) of female respondents screened with Moderately Severe Depression (32\%) or Severe Depression (30\%). Fiftythree of male respondents screened with Moderately Severe Depression (29\%) or Severe Depression (24\%).

| Depression Results | Female | Male | Total |
| :--- | :--- | :--- | :--- |
| Minimal Depression | 6104 | 4559 | 10663 |
| Mild Depression | 28920 | 14635 | 43555 |
| Moderate Depression | 66179 | 24935 | 91114 |
| Moderately Severe Depression | 85738 | 26469 | 112207 |
| Severe Depression | 81397 | 22358 | 103755 |
| Total | $\mathbf{2 6 8 3 3 8}$ | $\mathbf{9 2 9 5 6}$ | $\mathbf{3 6 1 2 9 4}$ |


| Depression Results | Female | Male |
| :--- | :--- | :--- |
| Minimal Depression | $2.27 \%$ | $4.90 \%$ |
| Mild Depression | $10.78 \%$ | $15.74 \%$ |
| Moderate Depression | $24.66 \%$ | $26.82 \%$ |
| Moderately Severe Depression | $31.95 \%$ | $28.47 \%$ |
| Severe Depression | $30.33 \%$ | $24.05 \%$ |
| Total | $\mathbf{1 0 0 . 0 0 \%}$ | $\mathbf{1 0 0 . 0 0 \%}$ |

Young female screeners score with highest severity of depression as compared to any other age group and as compared to males.

## Depression among Females by Age



## Depression among Males by Age



Females and males reporting household income of less than \$20,000 a year scored highest rates of Severe Depression. Older screeners were most likely to screen with Moderately Severe Depression.

| Annual Household Income | Minimal Depression | Mild Depression | Moderate Depression | Moderately <br> Severe <br> Depression | Severe Depression | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Female |  |  |  |  |  |  |
| Less than \$20,000 | 2\% | 9\% | 22\% | 32\% | 36\% | 100\% |
| \$20,000-\$39,999 | 2\% | 11\% | 25\% | 32\% | 30\% | 100\% |
| \$40,000-\$59,999 | 3\% | 13\% | 26\% | 31\% | 27\% | 100\% |
| \$60,000-\$79,999 | 3\% | 13\% | 27\% | 31\% | 25\% | 100\% |
| \$80,000-\$99,999 | 4\% | 15\% | 28\% | 31\% | 23\% | 100\% |
| \$100,000-\$149,999 | 4\% | 16\% | 28\% | 30\% | 22\% | 100\% |
| \$150,000+ | 4\% | 16\% | 28\% | 29\% | 23\% | 100\% |
| Female Total | 3\% | 12\% | 25\% | 31\% | 29\% | 100\% |
|  |  |  |  |  |  |  |
| Male |  |  |  |  |  |  |
| Less than \$20,000 | 4\% | 12\% | 24\% | 29\% | 31\% | 100\% |
| \$20,000-\$39,999 | 4\% | 14\% | 26\% | 31\% | 25\% | 100\% |
| \$40,000-\$59,999 | 5\% | 17\% | 27\% | 28\% | 22\% | 100\% |
| \$60,000-\$79,999 | 5\% | 17\% | 28\% | 29\% | 20\% | 100\% |
| \$80,000-\$99,999 | 6\% | 18\% | 30\% | 26\% | 19\% | 100\% |
| \$100,000-\$149,999 | 7\% | 20\% | 29\% | 26\% | 18\% | 100\% |
| \$150,000+ | 8\% | 22\% | 29\% | 25\% | 16\% | 100\% |
| Male Total | 5\% | 16\% | 27\% | 28\% | 23\% | 100\% |
| Grand Total | 3.48\% | 13.25\% | 25.88\% | 30.41\% | 26.98\% | 100.00\% |

Depression Results among Females by Income


Depression Results among
Males by Income
$\square$ Moderately Severe Depression $\quad$ Severe Depression


Across all races/ethnic groups, respondents earning less than $\mathbf{\$ 2 0 , 0 0 0}$ were most likely to screen Severe Depression. There was a greater percentage difference between individuals that screened for Severe Depression, and earned less than $\$ 20,000$, compared to those who earned more than $\$ 150,000$.

## Moderate Depression among Race/Ethinicity by Income



## Severe Depression among Race/Ethnicity by Income



## Summary of Depression Results by Demographics

Our youth is at great risk. Sixty-two percent of Female youth scored Moderately Severe Depression or Severe Depression. This was the case for $52 \%$ of Male youth. The 2018 State of Mental in America Report, continues to show a negligent response to youth who require treatment for Severe Depression. On average, it takes 10 years between the onset of symptoms and when individuals receive treatment. Given that this population is more likely to engage in risky behavior, it is important that mental health services and treatments be made available and accessible. A timely response to the mental health needs of youth, can prevent them from entering adulthood in crisis.

Outreach and awareness is critical among members of special populations. The highest proportion of Moderately Severe Depression and Severe Depression results were among LGBTQ and students. Caregivers, new or expecting moms, and veterans or active duty members were also shown to have been at high risk. Mental health services or resources that are tailored to the specific needs of these populations are necessary given the continuing demand.

Those with a greater need for treatment, cannot afford it. Depressive symptoms are common among individuals who are afflicted with chronic financial stress. The highest percentage of men and women who scored
severely depression earned a household income of less than \$20,000.
Across all racial and ethnic groups, earning an income of less than $\mathbf{\$ 2 0 , 0 0 0}$ meant a higher risk of screening severely depressed. The percentage difference between those earning less than $\$ 20,000$ and those earning $\$ 150,000$ was significantly greater in Severe Depression screen results.

## Screening by Demographics (2016): Next Steps

Individuals who completed the MHA Depression Screening test, had the option to provide additional information on any next steps that they would be taking after receiving their results. Screeners could choose one or more of the following:

- Discuss the results with a family member, a friend or a professional
- Find additional information online
- Find treatment
- Monitor my health by taking screens regularly
- None at this time

Although most screeners report that they would take NO action following their results, even among screeners who score with Severe Depression, another third report that they will discuss the results with a family member, a friend or a professional.

## What next steps do you plan to take after screening?



| Annual Household Income | Minimal <br> Depression | Mepression <br> Des | Moderate <br> Depression | Moderately Severe <br> Depression | Severe <br> Depression |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Discuss the results with a family <br> member, a friend or a professional | $28.70 \%$ | $30.93 \%$ | $28.97 \%$ | $27.18 \%$ | $23.60 \%$ |
| Find additional information online | $12.75 \%$ | $18.67 \%$ | $19.73 \%$ | $17.85 \%$ | $15.07 \%$ |
| Find treatment | $6.26 \%$ | $11.08 \%$ | $14.50 \%$ | $18.02 \%$ | $21.60 \%$ |
| Monitor my health by taking <br> screens regularly | $7.27 \%$ | $6.67 \%$ | $5.38 \%$ | $4.87 \%$ | $4.84 \%$ |
| None at this time | $45.02 \%$ | $32.65 \%$ | $31.42 \%$ | $32.09 \%$ | $34.90 \%$ |
| Grand Total | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ |

Screeners ages 11-17 were most likely to report that they would take no action. Screeners aged 35-44 were more likely to find treatment or discuss the results with someone. Screeners aged 55-64 were most likely to want to conduct additional research online and those $65+$ were most likely to monitor their health.

## Next Steps by Age



| What next steps do you <br> plan to take after <br> screening? | '11-17' | '18-24' | '25-34' | '35-44' | '45-54' | '55-64' | '65+' |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Discuss the results with <br> a family member, a <br> friend or a professional | $22.09 \%$ | $26.71 \%$ | $32.30 \%$ | $34.00 \%$ | $32.80 \%$ | $33.03 \%$ | $31.83 \%$ |
| Find additional <br> information online | $16.71 \%$ | $18.50 \%$ | $17.22 \%$ | $16.33 \%$ | $18.08 \%$ | $18.71 \%$ | $16.17 \%$ |
| Find treatment | $9.74 \%$ | $18.79 \%$ | $23.85 \%$ | $24.84 \%$ | $22.26 \%$ | $20.13 \%$ | $18.23 \%$ |
| Monitor my health by <br> taking screens regularly | $5.22 \%$ | $5.08 \%$ | $5.11 \%$ | $5.34 \%$ | $6.25 \%$ | $6.55 \%$ | $7.41 \%$ |
| None at this time | $46.24 \%$ | $30.92 \%$ | $21.52 \%$ | $19.49 \%$ | $20.60 \%$ | $21.59 \%$ | $26.35 \%$ |
| Total | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ | $100.00 \%$ |

Males were more likely than females to report that they would do nothing after screening.

Next Steps by Sex


| $\begin{array}{l}\text { What next steps do you plan } \\ \text { to take after screening? }\end{array}$ |  | Female |
| :--- | :---: | :---: |$]$ Male | Discuss the results with a <br> family member, a friend or a <br> professional |
| :--- |
| Find additional information <br> online |
| Find treatment |

White screeners were most likely to discuss results. Asian screeners were most likely to say they would find information online or do nothing. Black screeners were mostly to say they would find treatment. Native American screeners were most likely to monitor their health.

## Next Steps by Race/Ethnicity




| What next steps do you plan to take after screening? | Asian or Pacific Islander | Black or <br> African <br> American (nonHispanic) | Hispanic Latino | More than one of the above | Native American or American Indian | Other | White (nonHispanic) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Discuss the results with <br> a family member, a friend or a professional | 20.57\% | 25.72\% | 26.23\% | 23.26\% | 27.11\% | 23.60\% | 28.74\% | 27.09\% |
| Find additional information online | 19.11\% | 16.34\% | 18.29\% | 18.96\% | 16.27\% | 17.04\% | 17.09\% | 17.43\% |
| Find treatment | 13.67\% | 23.51\% | 18.11\% | 15.61\% | 16.53\% | 15.59\% | 16.85\% | 17.15\% |
| Monitor my health by taking screens regularly | 6.04\% | 5.84\% | 4.94\% | 5.25\% | 6.52\% | 5.25\% | 5.09\% | 5.23\% |
| None at this time | 40.61\% | 28.59\% | 32.44\% | 36.92\% | 33.58\% | 38.51\% | 32.24\% | 33.09\% |
| Total | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% |

Individuals making \$100,000 - \$149,000 annual income reported most likely to discuss results with someone. Individuals making more than $\$ 150,000$ annual income are most likely to do nothing. Individuals making less than $\$ 40,000$ annual income are most likely to want to find treatment.

## Next Steps by Income

| - Less than \$20,000 | - \$20,000-\$39,999 | - \$40,000-\$59,999 | - \$60,000-\$79,999 |
| :---: | :---: | :---: | :---: |
| - \$80,000-\$99,999 | - \$100,000-\$149,999 | - \$150,000+ |  |



| What next steps do you plan to take after screening? | Less than <br> \$20,000 | $\begin{gathered} \$ 20,000- \\ \$ 39,999 \end{gathered}$ | $\begin{gathered} \$ 40,000- \\ \$ 59,999 \end{gathered}$ | $\begin{gathered} \$ 60,000- \\ \$ 79,999 \end{gathered}$ | $\begin{gathered} \$ 80,000- \\ \$ 99,999 \end{gathered}$ | $\begin{gathered} \$ 100,000- \\ \$ 149,999 \end{gathered}$ | \$150,000+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Discuss the results with a family member, a friend or a professional | 26.37\% | 27.87\% | 28.96\% | 30.01\% | 30.69\% | 30.79\% | 29.32\% | 28.51\% |
| Find additional information online | 17.07\% | 17.59\% | 17.63\% | 17.51\% | 17.34\% | 17.64\% | 16.92\% | 17.39\% |
| Find treatment | 20.80\% | 20.74\% | 18.84\% | 17.47\% | 16.61\% | 16.49\% | 15.75\% | 18.96\% |
| Monitor my health by taking screens regularly | 5.27\% | 5.22\% | 5.32\% | 5.53\% | 5.56\% | 5.54\% | 5.20\% | 5.34\% |
| None at this time | 30.49\% | 28.58\% | 29.25\% | 29.48\% | 29.80\% | 29.54\% | 32.82\% | 29.80\% |
| Total | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% |

## Summary of Next Steps

Ambivalence, getting started, and online supports. One out of 3 screeners report that they do not plan to take any action after screening. A lack of action could mean that individuals who are turning to the internet for screening feel ambivalent about tackling the mental health problems they currently experience. Another third of screeners state that they plan to talk to someone. Only 17 percent report that they plan to seek treatment. Available online supports including accurate information can help keep individuals informed and possibly move people towards treatment options if and when the time is right.

Young screeners (11-17) were least likely to seek treatment, and most likely to take no action. This is a particularly vulnerable population that often must rely on the actions of adults to address mental health concerns. This may explain the increase in youth ages 18-24 who were more likely discuss their results with someone and seek treatment. Online resources and screenings, creates a space where youth (11-17) can feel safe in taking the first towards identifying potential risks.

Low income screeners want to act. Low-income screeners showed a great interest for taking next steps. For this group, socio-economic barriers may prevent them from acquiring mental health services. Online resources and tools can bridge this gap, providing options for addressing their mental health concerns.

Online resources and screenings complement face to face treatment. Individuals experiencing mental health problems should be able to access mental health services. Despite increasing rates of Major Depression among youth there has not been a corresponding rise in treatment.

Overall, individuals that took the depression screening in 2016 had some mental health concern, with the majority screening at high risk for Moderately Severe Depression and Severe Depression. Increasing mental health coverage can increase the number of individuals that are diagnosed and, if necessary, treated before they encounter extreme consequences (including self-harm, substance abuse, incarceration, etc.). In addition to expanding Medicaid, the largest payer for mental health services, providers must negotiate higher reimbursement rates for services, incentivizing more mental health professionals to take private and/or public insurance. Lastly, investment in preventive services, as well as recovery services (e.g. peer services, supportive employment, and supportive housing), would provide support and opportunity for individuals with mental health conditions.


[^0]:    ${ }^{7}$ Christensen, K. S., Toft, T., Frostholm, L., Ørnbøl, E., Fink, P., \& Olesen, F. (2005). Screening for common mental disorders: who will benefit? Results from a randomised clinical trial. Family practice, 22(4), 428-434.
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