

Suicide Data Report, 2012

Department of Veterans Affairs

Mental Health Services

Suicide Prevention Program

Janet Kemp, RN PhD

Robert Bossarte, PhD

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List of Abbreviations

VA = Department of Veterans Affairs

NDI = National Death Index

VHA = Veterans Health Administration

DoD = Department of Defense

VCL = Veterans Crisis Line

SPAN = Suicide Prevention and Application Network

DoDSER = Department of Defense's Suicide Event Reporting system

Introduction

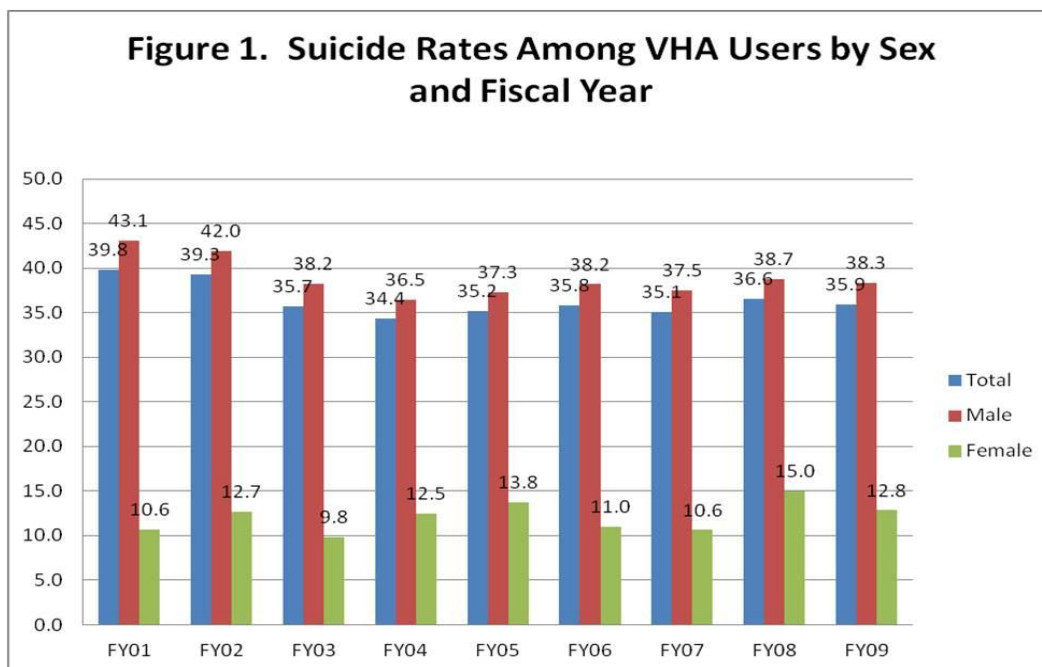
In 2007, the Department of Veterans Affairs began an intensive effort to reduce suicide among Veterans. This effort had its roots in the Mental Health staffing expansion and the Joshua Omvig Bill, and it included both attention to Veterans in crisis as well as those determined to be at high risk for suicide. The effort also included the development of data systems to increase understanding of suicide among Veterans and inform both the VA and other suicide prevention programs. Information on the characteristics and outcomes of Veterans at risk for suicide is critical to the development of improved suicide prevention programs.

In 2008, VA's Mental Health Services established a suicide surveillance and clinical support system based on reports of suicide and suicide events (i.e. non-fatal attempts, serious suicide ideation, suicide plan) submitted by Suicide Prevention Coordinators located at each VA Medical Center and large outpatient facility. In addition to information obtained from suicide behavior reports, data on the characteristics and outcomes of callers to the national toll-free Veterans Crisis Line – a universally available crisis intervention resource – are available. In 2010, the VA also began an intensive effort to shorten delays associated with access to NDI data and increase understanding of suicide among all Veterans by developing data sharing agreements with all 50 U.S. states. The integration of information collected through the NDI, state mortality records, Suicide Behavior Reports, Veterans Crisis Line, and the VA's universal electronic medical records contribute to an increased understanding of suicide and risk management by identifying gaps in existing knowledge, opportunities for intervention and the impact of VA-sponsored suicide prevention programs.

All of these data collection systems have matured to the point where they can now begin to provide VA with information that can be used to both determine if the current suicide prevention program is having an effect, where gaps may occur, and provide direction for the future. This reports is an initial attempt to look at all of this information together in order to provide an overall picture of Veteran suicide to drive suicide prevention program development and improve outcomes for Veterans at risk for suicide. It is expected that reporting will be refined as time goes on and more data become available. This report contains a systematic overview of data obtained from the State Mortality Project, Suicide Behavior Reports for fiscal years 2009 – 2012, and Veterans Crisis Line.

State Mortality Data Project

Up to this point the primary source for Veteran suicide information has been limited to those Veterans who receive care in VA. Information on the rate and characteristics of suicide among those who used VHA services is available for the fiscal years 2001—2009 based on information from analyses of mortality data obtained through the National Death Index. Using this information we have identified a decrease in the age-adjusted rate of suicide (per 100,000 person years) between the fiscal years 2001--2003 and relative stability in suicide rates during recent years (Figure 1).



While data obtained from NDI provide a reliable mechanism for identifying suicides among some Veterans, these data often encounter lengthy delays and require a population list to identify cause of death information. The Department of Veterans Affairs believes that a comprehensive suicide prevention program requires timely and accurate information beyond that acquired from its internal patient population.

It was determined that additional data on Veterans with and without history of VHA service use, among those who have accessed crisis services, and for those with report of non-fatal suicide events are needed to overcome delays associated in acquisition of mortality data, improve understanding of suicide among all Veterans, and identify changes in outcomes among those who use receive care from the VHA. The need for comprehensive information led to the decision to seek support from state governments for a collaborative effort to improve current understanding of suicide among Veterans among Veterans with and without history of VHA service use. In 2010, Secretary Shinseki engaged Governors of all U.S. states requesting support and collaboration to improve the timeliness and utility of suicide mortality reporting. The Secretary's request asked each state to designate a point of contact who would work with the VISN 2 Center of Excellence for Suicide Prevention to develop data use agreements for the purpose of sharing identified mortality data for all known suicides. The time frame for the original request for data included all known suicides reported between January 1, 1999 and December 31, 2004. However, following discussion of developing program needs, the time frame was extended for each data request including existing and pending data use agreements that share individually identifiable data through December 31, 2015. Data obtained from states is currently being used to assess the reliability and validity of Veteran information collected during mortality reporting, fulfill requirements of PL111.163 to determine the number of Veterans who have died from suicide (1999-2009), and to identify opportunities to improve the timeliness and utility of suicide reporting. Currently, all 50 U.S. states include some information on the decedent's history of U.S. military service. A complete listing of Veteran identifiers by state and project year has been provided as Appendix A.

Project Cost

The cumulative cost of the State Mortality Data Project has been \$46,771.29 as of 11/16/2012; including FY12 expenditures of \$35,094.23 and FY13 expenditures of \$11,677.06. All costs associated with the State Mortality Data Project are related to state fees for processing and delivery of mortality data.

Project Status

As of November 2012, data have been received from 34 states and data use agreements have been approved by an additional eight states. Data will be received from these states once the terms of individual data use and financial arrangements are finalized. An additional 11 states and territories have not made a decision regarding our request or are in the process of developing Data Use Agreements for VA review. A total of five states and territories have requested modifications to the initial request for data sharing or have been unable to identify an internal point of contact to support this program. Efforts to address initial concerns and/or identify appropriate contacts within non-participating areas are ongoing. While the State Mortality Project has not finalized contributions from all states, evaluation of existing data determined that the pilot effort has reached a point of statistical significance allowing for analysis of available data. Availability of data by state is listed in Table 1 and an estimated schedule for updates to the existing data has been provided as Appendix B. Recently, efforts to obtain information on deaths from suicide for Veterans have expanded to several U.S. territories including Guam, Puerto Rico, US Virgin Islands, Commonwealth of Northern Mariana Islands, and American Samoa as well as the Philippines, due to the presence of a VA facility and a large population of US Military Veterans in these regions. The Department of State has also been approached about obtaining information on suicide deaths among Americans living in foreign territories. Data availability and the status of each data request are

summarized in Table 1. To date, data from twenty-one (21) states have been cleaned and entered into a single integrated file containing information on more than 147,000 suicides and 27,062 reported Veterans.

In addition to the issues identified above, barriers to full project implementation include inconsistent availability of requested information in all states, barriers to providing non-resident data and sending preference to provide de-identified data due to conflicting interpretations of Social Security laws. Negotiations with states are continuing as we begin requesting more recent years' data as well as renewing or revising previously completed Data Use Agreements.

Table 1: Status of Data Request/Availability by State

State/Area	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Alabama	I	I	I	I	I	I	I	I	I	I	I	I	P
Alaska	I	I	I	I	I	I	I	I	I	I	I	I	P
American Samoa	R	R	R	R	R	R	R	R	R	R	R	R	R
Arizona	R	R	R	R	R	R	R	R	R	R	R	R	R
Arkansas	A	A	A	A	A	A	A	A	A	A	A	A	A
California	P	P	P	P	P	P	P	P	P	P	P	P	P
Commonwealth N. Mariana Islands	R	R	R	R	R	R	R	R	R	R	R	R	R
Colorado	K	K	K	K	K	K	K	K	K	K	K	K	P
Connecticut	P	P	A	A	A	A	A	A	A	A	A	A	P
Delaware	R	R	R	R	R	R	R	R	R	R	R	R	R
Florida	I	I	I	I	I	I	I	I	I	I	I	I	I
Georgia	P	P	P	P	P	I	I	I	I	I	I	I	I
Guam	R	R	R	R	R	R	R	R	R	R	R	R	R
Hawaii	A	A	A	A	A	A	A	A	A	A	A	A	P
Idaho	I	I	I	I	I	I	I	I	I	I	I	I	P
Illinois	R	R	R	R	R	R	R	R	R	R	R	R	R
Indiana	C	C	C	C	C	C	C	C	C	C	C	C	C
Iowa	P	P	P	P	P	P	P	P	P	P	P	P	P
Kansas	I	I	I	I	I	I	I	I	I	I	I	I	P
Kentucky	R	R	R	R	R	R	R	R	R	R	R	R	R
Louisiana	A	A	A	A	A	A	A	A	A	A	A	A	P
Maine	I	I	I	I	I	I	I	I	I	I	I	P	P
Maryland	R	R	R	R	R	R	R	R	R	R	R	R	R
Massachusetts	I	I	I	I	I	I	I	I	I	I	P	P	P
Michigan	I	I	I	I	I	I	I	I	I	I	I	I	P
Minnesota	I	I	I	I	I	I	I	I	I	I	I	I	P
Mississippi	P	P	P	P	P	P	P	P	P	P	P	P	P
Missouri	I	I	I	I	I	I	I	I	I	I	I	P	P
Montana	A	A	A	A	A	A	A	A	A	A	A	A	P
Nebraska	I	I	I	I	I	I	I	I	I	I	I	I	P
Nevada	I	I	I	I	I	I	I	I	I	I	I	I	P
New Hampshire	P	P	P	P	P	P	P	P	P	P	P	P	P
New Jersey	I	I	I	I	I	I	I	I	I	I	I	I	P
New Mexico	P	P	P	P	P	P	P	P	P	P	P	P	P
New York	I	I	I	I	I	I	I	I	I	I	I	I	P
New York City	I	I	I	I	I	I	I	I	I	I	I	I	P
North Carolina	I	I	I	I	I	I	I	I	I	I	I	I	I
North Dakota	A	A	A	A	A	A	A	A	A	A	A	A	P
Ohio	K	K	K	K	K	K	K	K	K	K	K	K	K
Oklahoma	I	I	I	I	I	I	I	I	I	I	I	P	P
Oregon	A	A	A	A	A	A	A	A	A	A	A	A	P
Pennsylvania	I	I	I	I	I	I	I	I	I	I	I	I	P
Philippines	R	R	R	R	R	R	R	R	R	R	R	R	R
Puerto Rico	R	R	R	R	R	R	R	R	R	R	R	R	R
Rhode Island	R	R	R	R	R	R	R	R	R	R	R	R	R
South Carolina	C	C	C	C	C	C	C	C	C	C	C	C	C
South Dakota	P	P	P	P	P	P	P	P	P	P	P	P	P
State Department	R	R	R	R	R	R	R	R	R	R	R	R	R
Tennessee	R	R	R	R	R	R	R	R	R	R	R	R	R
Texas	K	K	K	K	K	K	K	K	K	K	K	K	P
Utah	A	A	A	A	A	A	A	A	A	A	A	A	A
Vermont	I	I	I	I	I	I	I	I	I	I	I	I	P
Virgin Islands	R	R	R	R	R	R	R	R	R	R	R	R	R
Virginia	K	K	K	K	K	K	K	K	K	K	K	A	A
Washington	I	I	I	I	I	I	I	I	I	I	I	I	I
Washington D.C.	P	P	P	P	P	P	P	P	P	P	P	P	P
West Virginia	I	I	I	I	I	I	I	I	I	I	I	I	P
Wisconsin	A	P	A	A	A	A	A	A	A	A	A	A	P
Wyoming	P	P	P	P	P	P	P	P	P	P	P	P	P

I= data included in report, A= available for future analysis, P= pending state approval/processing,
R = requested but not received, C= being processed, K = provided partial information

Reliability and Validity of Veteran Identifiers

A previous assessment of Veteran identifiers on Colorado death certificates suggested that the reliability of Veteran identifiers on state death certificates is acceptable.(1) The state mortality project offers a unique opportunity to more directly quantify the misclassification of Veteran status as indicated on death certificates for suicide. A preliminary assessment of data collected from Washington State (Washington initially provided data from 1999-2008) as part of this project supports conclusions of acceptable reliability reported in previous assessments and demonstrates the utility of using VA administrative data for confirming service history.

Comparing the death certificate indicator in Washington to VA and DOD records, 5% misclassification was observed overall, suggesting that death certificate reporting is a reasonable indicator of Veteran status among suicide deaths that could be used to track the overall rate of Veteran suicides. However, misclassification was considerably higher among validated Veterans with 11% of true Veterans classified as non-Veterans on the death certificate. Only 2% of true non-Veterans were misclassified as Veterans on the death certificate. The ability of death certificates to fully capture female Veterans was particularly low; only 67% of true female Veterans were identified. Younger or unmarried Veterans and those with lower levels of education were also more likely to be missed on the death certificate. This decreased sensitivity in specific subgroups can affect both suicide surveillance and research efforts that utilize Veteran status on the death certificate. From a surveillance standpoint, the rate of Veteran suicides will be underestimated in these groups. From a research standpoint, the generalizability of study findings for specific subgroups may be limited. This preliminary analysis demonstrates the value of linking information from state mortality record obtained through data sharing agreements and VA and DoD administrative files.

Main Finding: Continued research on the reliability and validity of Veteran identifiers is needed.

Limitations of Existing Data

Currently available data include information on suicide mortality among the population of residents in 21 states. Veteran status in each of these areas is determined by a single question asking about history of U.S. military service. Information about history of military service is routinely obtained from family members and collected by funeral home staff and has not been validated using information from the DoD or VA. Further, Veteran status was not collected by each state during each year of the project period. Appendix B provides a listing of the availability of Veteran identifiers by state and year.

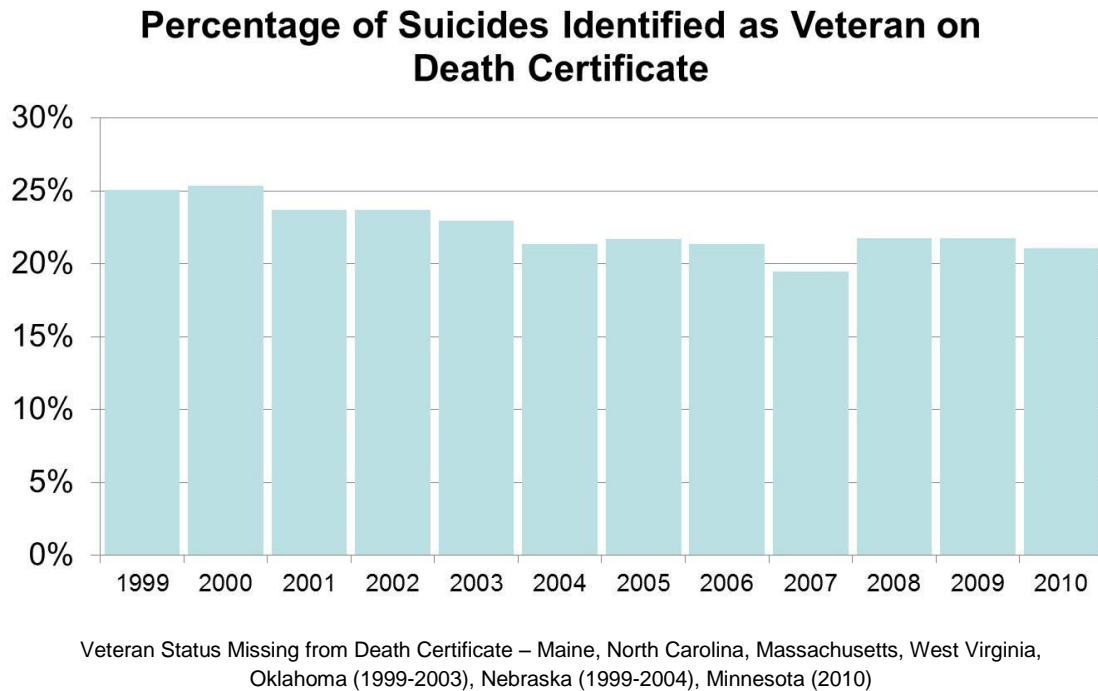
Further, this report contains information from the first 21 states to contribute data for this project and does not include some states, such as California and Texas, with larger Veteran populations. Information from these states has been received and will be included in future reports.

Suicide among Veterans – As Reported on Death Certificates

Of the 147,763 suicides reported in 21 states, 27,062 (18.3%) were identified as having history of U.S. military service on death certificates. However, Veteran status was unknown or not reported for more than 23% (n=34,027) of all suicides during the project period. Without linking to VA or DoD resources to validate history of U.S. military service, it is necessary to remove those without information on history of military service from estimates of Veteran status among suicide decedents. Among cases where history of U.S. military service was reported, Veterans comprised approximately 22.2% of all suicides reported during the project period. If this prevalence estimate is assumed to be constant across all U.S. states, an estimated 22 Veterans will have died from suicide each day in the calendar year 2010. As

Veteran status on death certificates is verified in on-going work the overall percentage remains comparable. As shown in Appendix C, preliminary data for the 2012 calendar year will be available from a limited number of participating states within the next 12 months. It is important to note that estimates of the number of Veterans who died from suicide are based on information reported on state death certificates and may be subject to reporting error. It is recommended that the estimated number of Veterans be interpreted with caution due to the use of data from a sample of states and existing evidence of uncertainty in Veteran identifiers on U.S. death certificates. It is important to note that both Veteran populations and those who die by suicide are significantly more likely to be male. According to data provided by the United States Census Bureau, 93% of all Veterans are male and 21% of all males aged 18 years and older have history of U.S. military service. Further, history of U.S. military service increases with age, with the highest percentage of Veterans aged 55 years and older.(2) Information reported on state death certificates indicates that the ages 50-59 years is also an important group for addressing risk for suicide. Between 1999 and 2010 the average age of male Veterans who died from suicide was 59.6 years among Veterans identified on state death certificates and 54.5 years among those who could be validated using VA administrative records. The average age of male Veterans who died from suicide was considerably older than the average age of male suicide decedents who were not identified as Veterans (43.1 years). For example, according to data provided by the Centers for Disease Control and Prevention (2010), approximately 79% of all suicides among adults aged 18 years and older were male and approximately 44% of all male suicides were among those aged 50 years of age and older. (3) It is therefore possible that epidemiologic characteristic of suicide in the general population (i.e. higher rates of suicide among older adult males) may contribute to a comparatively high prevalence of Veterans among those who die from suicide.

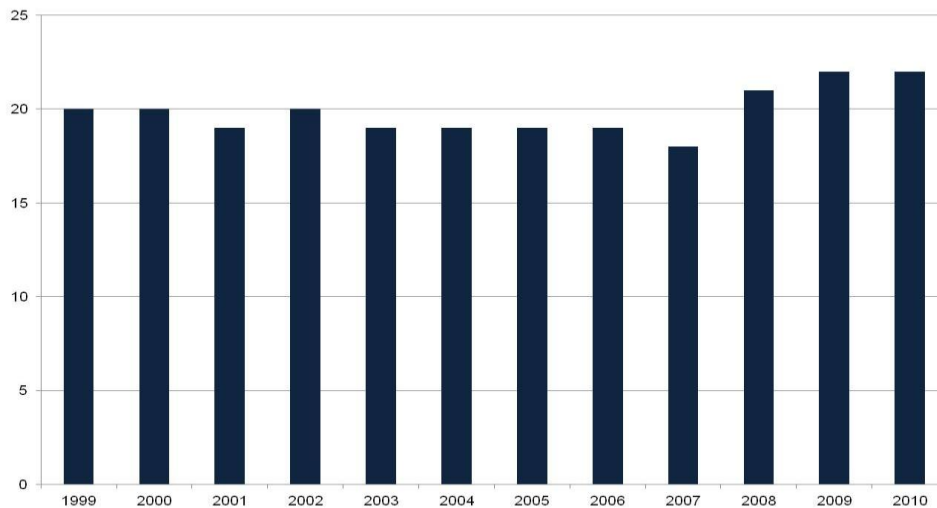
Figure 2: Percentage of Suicides Identified as Veteran by Year (1999-2010)



Main Finding: While the percentage of all suicides reported as Veteran has decreased, the number of suicides has increased.

As shown in Figure 2, the percentage of all suicides identified as Veteran declined between the years 1999-2003 and has remained comparatively constant over recent years. However, the number of deaths by suicide has increased. Between 2007 and 2010, the number of deaths from suicide in the U.S. increased by nearly 11% and the rate of suicide increased by over 8%.

Figure 3: Estimated Number of Veteran Suicides per day by Year



Estimates that the number of suicides among Veterans each day has increased, are based on information provided by 21 states and may not be generalizable to the larger Veteran population. To account for uncertainty in the estimated number of Veterans who have died from suicide each year, confidence intervals were calculated using variability in the percentage of Veterans reported among all suicides in participating states. Information on the estimated count and lower and upper limits for the estimate for each year has been provided in Table 2.

Table 2: Estimated Number of Veteran Suicides and Confidence Intervals by Year

Year	Estimated Count	Lower Limit	Upper Limit
1999	20	19	20
2000	20	19	20
2001	19	19	19
2002	20	19	20
2003	19	19	19
2004	19	18	19
2005	19	18	19
2006	19	18	19
2007	18	17	18
2008	21	20	21
2009	22	21	22
2010	22	21	22

The estimated number of Veterans who died from suicide each day was calculated as the percentage of all suicides identified as Veterans multiplied by the number of suicides in the U.S. and divided by the number of days in a year. The estimated number of Veterans who have died from suicide is based on data obtained from 21 states and has been calculated using service history as reported on death certificates. An assessment of Veteran status on Washington State death certificates identified a measureable amount of error among those with history of U.S. military service. Therefore, estimates of the number of Veterans who have died from suicide each day based on proxy report of history of U.S. military service should be interpreted with caution..

It is also possible to estimate the excess burden of suicide among Veterans by comparing the percentages of Veterans in the general population and the percentage of Veterans among those who have died from suicide. Figures 4 & 5 show the percentage of Veterans living in the first 21 states to contribute to this project and the estimated prevalence of Veterans among suicide decedents in those same areas for males and females respectively. As shown in Figures 4 & 5, difference in the population percentage of male Veterans in 21 participating states and the percentage of Veterans among males who died from suicide in those same areas is highest among younger Veterans and decreases with age. However, the difference between the population percentage of female Veterans and female Veterans who died from suicide in those same areas is greater than it is for males and does not decrease with age. (Please note that these two Figures use different scales. The two populations are very different in regards to numbers and different scales are needed to demonstrate the differences in each.)

Figure 4: Percentage of Male Veterans in 21 States and among Those Who Died from Suicide

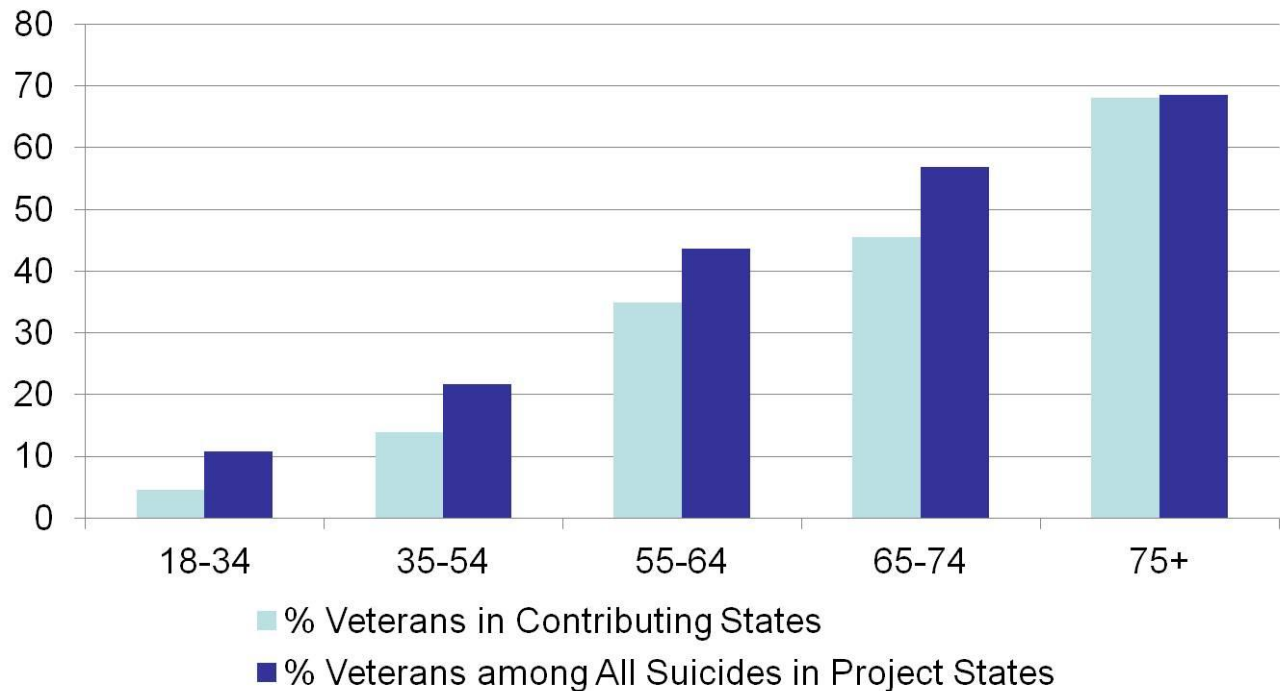
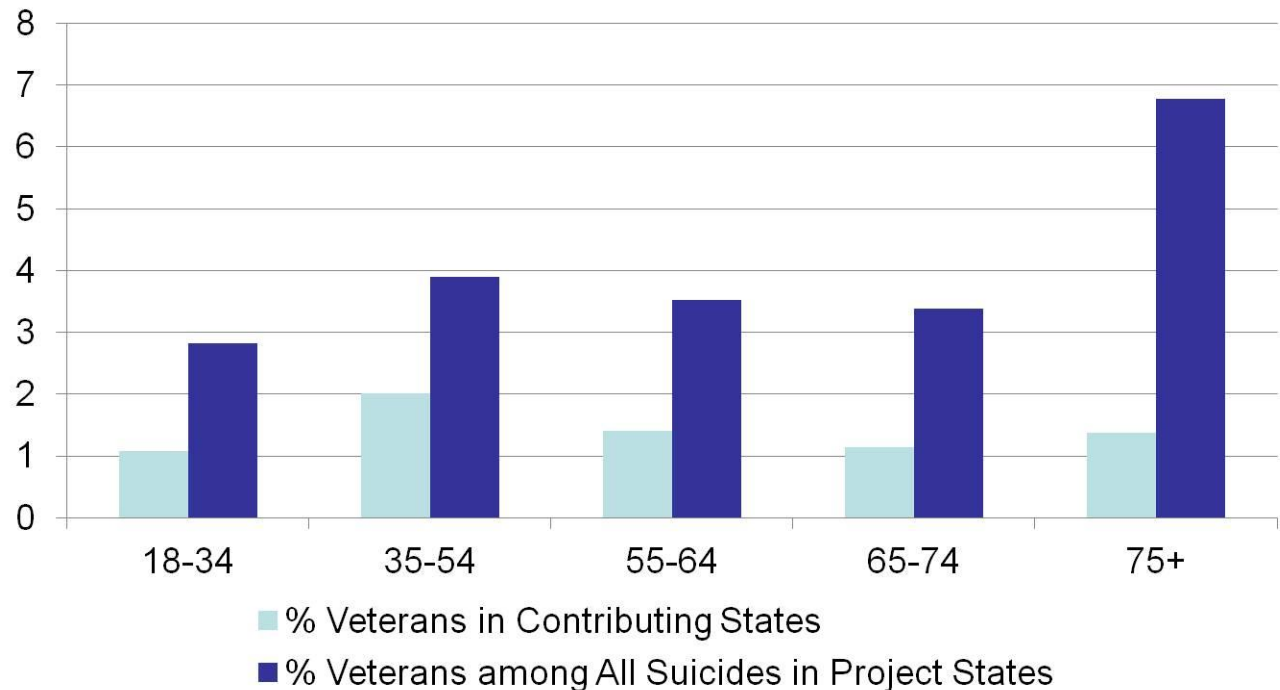


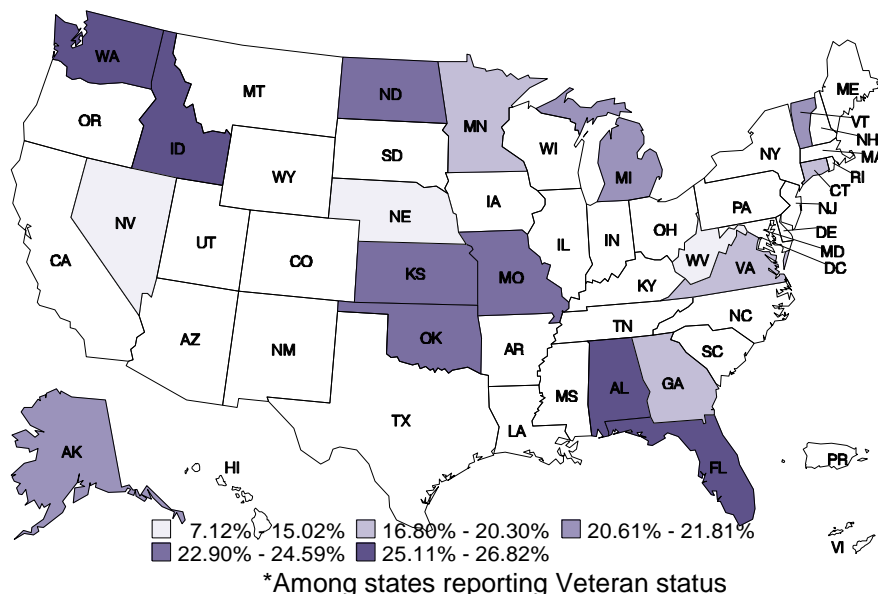
Figure 5: Percentage of Female Veterans in 21 States and among Those Who Died from Suicide



An important assumption underlying current estimates of the number of Veteran suicides in the total population is stability in the percentage of Veterans among suicides reported in each

state. As shown Figure 6, there is variability in this percentage of Veterans among all suicides across states during the project period; with the percentage of Veteran suicides ranging from a low of just over 7% to more than 26% of all suicides. Available data prevent any firm conclusions about correlates or causes of difference in the prevalence of Veteran suicides in each area. However, the observed variability in the percentage of all suicides reported as Veteran across states suggests that this number is not constant across areas. It is possible that differences in demographic composition and service availability contribute to variability in Veteran suicide across geographic regions. Additional study of the causes and correlates of variability in Veteran suicide across communities is recommended.

Figure 6: Percentage of Suicides Identified as Veteran by State*
Percent of Veteran Suicide Deaths by State





Veteran Status and Demographic Characteristics among Suicide Decedents

Table 3 shows the percentage of suicides across 10-year age groups for all Veterans, Veterans with history of VHA service use, and those without report of military service (non-Veterans). As shown in Table 3, those identified as Veterans of U.S. military service were more likely to be aged 50 years and older than those without report of military service.

Specifically, more than 69% of all Veteran suicides were among those aged 50 years and older, compared to approximately 37% among those who were not identified as Veterans. The final two columns in Table 3 list the Chi-Square values and p-statistics comparing the age distributions of non-Veterans, Veterans, and Veterans with history of VHA service use in the year before their death. These comparisons suggest that those identified as Veterans were significantly more likely to be age 50 years and older when compared to those without indication of military service. Further, those with history of VHA service use were more likely than other Veterans to be between the ages of 50 – 79 years.

Table 3: Percentage of Suicides by Age and Veteran Status

Age Group	Non-Veteran	Veteran	VHA Veteran	 , p (1)	 , p (2)
29 years and younger	21.6%	6.0%	3.0%	3902.36, <.0001	83.38, <.0001
30 – 39 years	19.3%	9.1%	5.2%	1386.39, <.0001	110.38, <.0001
40 – 49 years	24.5%	15.6%	14.0%	833.21, <.0001	12.34, 0.01
50 – 59 years	18.2%	20.0%	23.4%	63.54, <.0001	48.00, <.0001
60 – 69 years	8.1%	16.5%	19.6%	1655.55, <.0001	43.23, <.0001
70 – 79 years	4.6%	18.6%	20.0%	5592.63, <.0001	6.64, 0.01
80 years and older	3.7%	14.2%	14.8%	3980.27, <.0001	0.21, 0.65

(1) Veteran (as indicated on death certificate) compared to non-Veteran

(2) Veteran with VHA service use compared to general population of Veterans (as indicated on death certificate)



Main Finding: More than 69% of Veteran suicides are among those age 50 years and older.

There is evidence of differences in gender composition among Veterans who have died from suicide when compared to those without history of military service. Specifically, males accounted for more than 97% of all suicides among those identified as Veterans, compared to approximately 74% among non-Veteran suicide decedents (Table 4). Differences in the

distribution of age between males with and without report of military service are consistent with trends identified in the larger population of suicide decedents.

As shown in Table 5, females accounted for less than 3% of all suicides among reported Veterans, compared to more than 26% among suicide decedents without a reported history of military service. Overall, there were few differences in the age distribution of suicide decedents with and without report of military service.

Table 4: Percentage of Suicides by Age and Veteran Status among Males

Age Group	Non-Veteran	Veteran	VHA Veteran	 p (1)	 p (2)
29 years and younger	24.4%	5.8%	2.9%	4654.56, <.0001	79.60, <.0001
30 – 39 years	20.0%	8.9%	4.9%	1525.62, <.0001	109.07, <.0001
40 – 49 years	23.5%	15.0%	13.2%	709.62, <.0001	15.59, <.0001
50 – 59 years	16.9%	20.0%	23.4%	146.26, <.0001	46.65, <.0001
60 – 69 years	7.4%	16.8%	20.0%	1889.43, <.0001	43.92, <.0001
70 – 79 years	4.2%	19.0%	20.5%	5261.07, <.0001	7.14, 0.01
80 years and older	3.6%	14.5%	15.1%	3579.83, <.0001	0.11, 0.74

(1) Veteran (as indicated on death certificate) compared to non-Veteran



(2) Veteran with VHA service use compared to general population of Veterans (as indicated on death certificate)

Additional information available from mortality records may help identify systematic differences among suicide decedents who were and were not identified as Veterans. Tables 6 – 8 show results from comparisons of non-Veterans, Veterans, and Veterans with history of VHA service use by marital status, race ethnicity, and educational attainment. Results from these comparisons are consistent with previous analyses of the characteristics of Veteran groups. Overall, suicide decedents identified as Veterans were more likely to have been

married/widowed/divorced, be identified as non-Hispanic whites, and have comparatively higher levels of academic achievement.

Main Finding: Male Veterans who die by suicide are older than non-Veteran males.

Table 5: Percentage of Suicides by Age and Veteran Status among Females



Age Group	Non-Veteran	Veteran	VHA Veteran	 , p (1)	 , p (2)
29 years and younger	13.8%	12.9%	7.5%	3.31, 0.07	3.81, 0.06
30 – 39 years	17.3%	18.9%	13.5%	1.90, 0.17	2.13, 0.14
40 – 49 years	27.3%	34.1%	40.6%	19.78, <.0001	2.60, 0.11
50 – 59 years	21.7%	19.4%	24.1%	1.46, 0.23	1.45, 0.23
60 – 69 years	10.3%	7.1%	6.8%	7.77, 0.01	0.02, 0.90
70 – 79 years	5.6%	4.1%	2.3%	2.67, 0.10	1.47, 0.23
80 years and older	4.0%	3.5%	5.3%	0.41, 0.52	1.51, 0.22

(1) Veteran (as indicated on death certificate) compared to non-Veteran

(2) Veteran with VHA service use compared to general population of Veterans (as indicated on death certificate)

Main Finding: The age distribution of female Veterans and non-Veterans is similar.

Table 6: Percentage of Suicides by Marital and Veteran Status

Age Group	Non-Veteran	Veteran	VHA Veteran	 , p (1)	 , p (2)
Married/Separated	27.9%	38.6%	37.1%	1091.35, <.0001	65.96, <.0001
Widowed	4.8%	10.8%	11.1%	1225.35, <.0001	3.28, 0.07
Divorced	19.2%	22.1%	29.9%	105.31, <.0001	113.14, <.0001
Single	29.5%	11.5%	11.2%	3467.13, <.0001	7.97, 0.01
Unknown	18.6%	17.0%	10.7%	31.64 <.0001	11.24, 0.01

(1) Veteran (as indicated on death certificate) compared to non-Veteran

(2) Veteran with VHA service use compared to general population of Veterans (as indicated on death certificate)

Main Finding: Veterans who died from suicide were more likely to be married, widowed, or divorced.

Table 7: Percentage of Suicides by Race/Ethnicity and Veteran Status



Age Group	Non-Veteran	Veteran	 , p
Race			
White	87.7%	92.6%	472.13, <.0001
African-American	6.4%	4.5%	128.55, <.0001
Indian/Native Alaskan	1.6%	0.7%	122.17, <.0001
Asian/Pacific Islander	1.6%	0.4%	226.34, <.0001
Other	0.7%	0.2%	89.39, <.0001
Unknown	2.0%	1.6%	10.01, 0.01
Ethnicity			
Hispanic	5.4%	1.6%	676.81, <.0001
Non-Hispanic	87.2%	91.4%	351.21, <.0001
Unknown	7.4%	7.0%	6.61, 0.05

Table 8: Percentage of Suicides by Education and Veteran Status

Age Group	Non-Veteran	Veteran	 , p
Less than High School	17.2%	10.3%	735.37, <.0001
High School	30.8%	35.1%	174.36, <.0001
1 Year of College or Less	6.8%	7.9%	33.15, <.0001
2 Years of College	5.9%	7.0%	42.24, <.0001
3 Years of College	3.3%	3.5%	1.15, 0.28
4 Years of College	7.5%	8.9%	56.24, <.0001
5+ Years of College	4.2%	5.1%	42.10, <.0001
Unknown	24.3%	22.2%	46.23, <.0001

Main Finding: The demographic characteristics of Veterans who have died from suicide are similar among those with and without history of VHA service use.

Suicide Prevention Applications Network/Suicide Behavior Reports

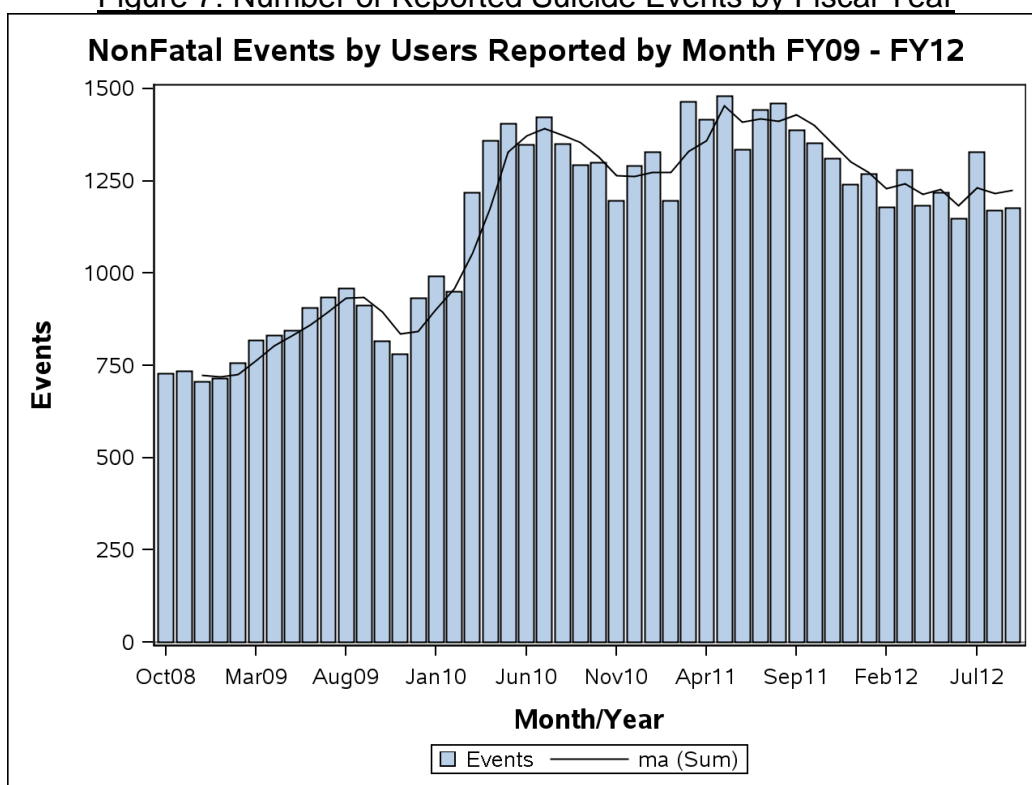
The VHA Strategic Plan for Suicide Prevention is grounded in a public health framework encompassing three major components: surveillance, identification of risk and protective factors, and development of effective prevention interventions. In accordance with the first component of this plan, surveillance, the VA has mandated since 2008 that health system facilities track attempted and completed suicides in a national database, the Suicide Prevention and Application Network (SPAN). Together, SPAN and the Department of Defense's Suicide Event Reporting system (DoDSER) which utilize the same standardized suicide event nomenclature constitute the nation's only real-time suicide surveillance systems. SPAN is coordinated and maintained by the Mental Health Program Director, Suicide Prevention and Community Engagement. The SPAN database compiles individual-level case reports for all suicide events and deaths known to VHA providers and Suicide Prevention Coordinators from each VHA medical facility using standard processes and a Suicide Behavior Report developed by national-level management and suicide prevention experts. VA policy requires that Suicide Prevention Coordinators complete a Suicide Behavior Report for all known suicides, suicide attempts, and some serious suicide ideation (i.e. suicide ideation involving a firearm). Therefore, reports of non-fatal suicide events may include suicide, suicide attempts and serious suicide ideation resulting in preventive action. In 2010, electronic reporting of suicide events was implemented.

The SPAN database provides the capacity for ongoing surveillance of suicide events among Veterans. Each month in FY2012, SPAN received approximately 1,400 suicide events nationwide, 95% of which are for non-fatal events. Although SPAN contains approximately 40% of suicide deaths among Veterans receiving VHA services, the State Mortality Data Project and annual all-cause National Death Index searches conducted for VHA users are

better suited for tracking suicide deaths in the Veteran population. In contrast, SPAN is uniquely suited to capture information on the incidence and characteristics of non-fatal events. Furthermore, because SPAN is an internal data collection system, the SPAN system primarily contains suicide events for VHA utilizing Veterans; each year less than 10% of non-fatal suicide events reported to SPAN are for Veterans who are not recent VHA users. (VHA usually does not know about events for non-users). This report therefore focuses on non-fatal suicide events for VHA users defined as Veterans who have utilized any VHA services within one year preceding the event.

Prevalence and Characteristics of Non-Fatal Suicide Events

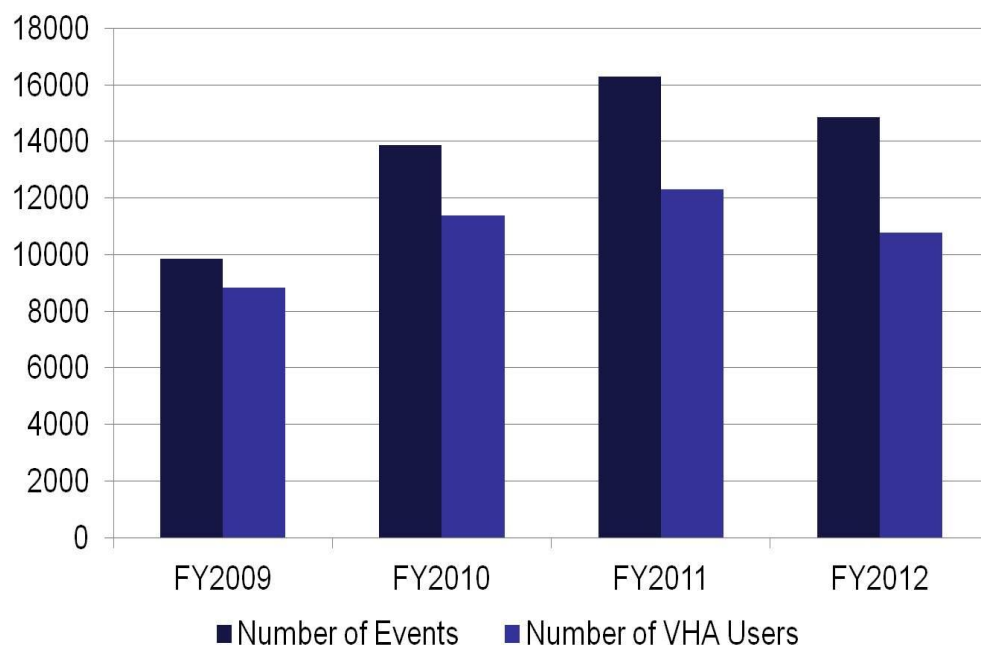
Figure 7: Number of Reported Suicide Events by Fiscal Year



As shown in Figure 7, the absolute number of monthly non-fatal suicide events has increased since SPAN was implemented in 2008. However, early increases were likely due to a

transitional period during which facilities were adapting to this new program and reporting procedures. The second period of the observed increase between December 2009 to July 2010 is likely due, in a large part, to the initiation of electronic submission of Suicide Behavior Reports, which streamlined the reporting process and potentially increased program compliance. There also appears to be a seasonal trend with more suicide events in the spring and summer months noted in 2010 and 2011. In the fall of 2011, the number of reported events again began to decrease, but the expected seasonal increase for the spring of 2012 was not observed. Thus, although findings are preliminary at this time, the number of non-fatal events appears to be decreasing. This observed decrease may represent a true decline in Veteran suicide behaviors, but could also be due, in part, to reporting lag or systematic policy changes regarding the types and number of events reported. This decrease is also observed when considering overall annual trends (Figure 8). In 2012, non-fatal suicide events were reported for almost 11,000 VHA users. As some VHA utilizing Veterans experience multiple reported events, this corresponds to nearly 15,000 suicide events reported in FY2012 compared to more than 16,000 in FY2011. This is unique data and cannot be compared to non-veteran data since population level non-fatal event data on the general population does not exist.

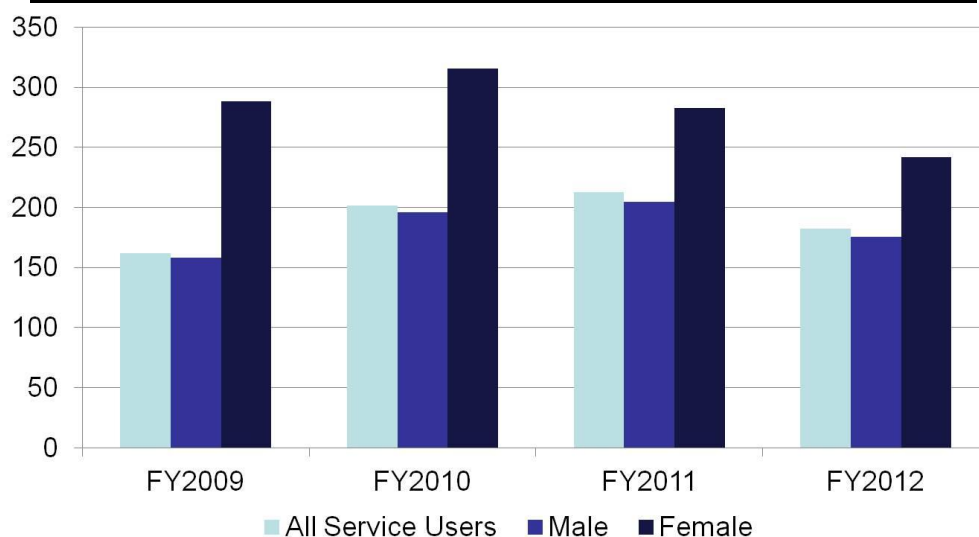
Figure 8: Number of Reported Suicide Events and VHA Users by Fiscal Year



Main finding: Preliminary evidence suggests that the number of non-fatal suicide events for VHA utilizing Veterans has been decreasing since September, 2011.

Considering unique individuals with one or more non-fatal suicide events(s), the suicide event rate increased slightly from 2009 to 2011 and decreased slightly in 2012 parallel to that observed for the absolute number of events in figures 9 and 10. As shown in Figure 9, clear gender differences are apparent with more females than males with report of a suicide event each year, yet the annual trends are the same for both genders. Furthermore, the gender gap appears to be closing.

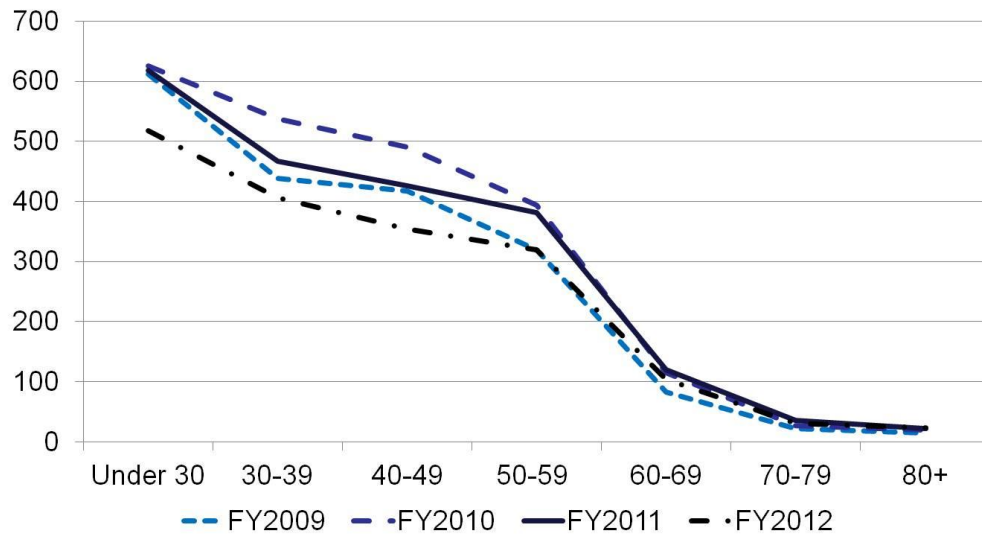
Figure 9: Rate of Non-Fatal Suicide Events by Sex and Fiscal Year



Main Finding: Although gender differences exist, they appear to be decreasing.

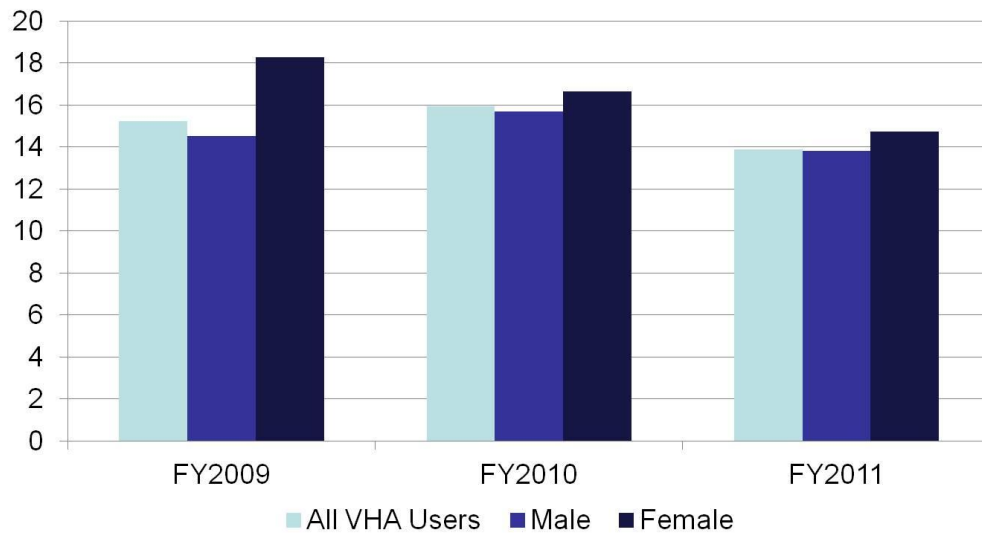
Age-specific event rates clearly differ with a consistent pattern emerging for 2009-2012. Rates are highest among younger Veterans and appear to decrease consistently with increasing age. Suicide event rates for Veterans 60 and older have remained comparatively stable since 2009, but fluctuations have been observed for younger Veterans. When considering rates by age group, we again see an increase from 2009-2010 for those less than 60 years of age, but a clear decline is noted beginning in 2011 and continuing in 2012. When considering Veterans of all ages, this decline was not apparent until 2012. This trend may be due to the fact that although rates are lower among older Veterans, there is a larger number of older Veterans utilizing VHA services and this group. Therefore, patterns in suicide event reports among older adults may disproportionately influence observed trends in overall frequencies and suicide event rates. Among the older Veterans, no change in suicide event rates was observed between 2010 and 2011. Non-fatal event rates by age group and gender have been provided as Appendix C.

Figure 10: Rate of Non-Fatal Suicide Events by Age Group and Fiscal Year



Main Finding: Rates of non-fatal suicide events decrease with age.

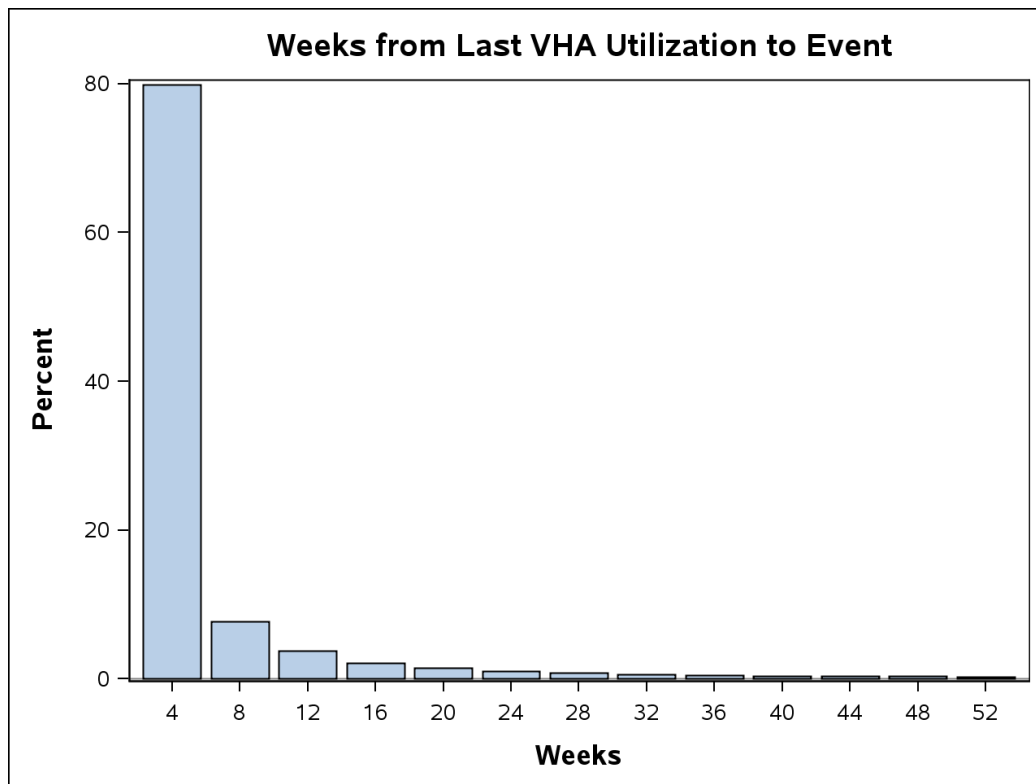
Figure 11: 12 Month Re-Event Prevalence by Sex and Fiscal Year



Main Finding: The 12 month re-event prevalence decreased in FY2012.

Repeat report of an additional suicide event within 12 months of a non-fatal suicide event occurs in approximately 15% of cases for both males and females. Although we cannot yet report on 2012 reattempt rates, it does appear that the 12 month repeat report prevalence decreased slightly from 2010 to 2011. Repeat report prevalence by age group and gender have been provided in Appendix D.

Figure 12: Prevalence of Non-Fatal Events by Time since Last Service Use



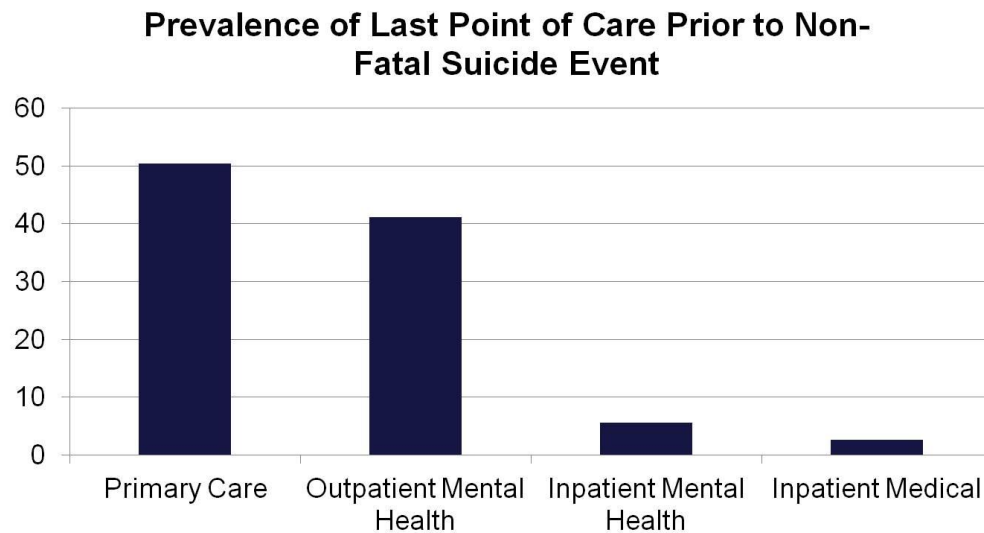
Main Finding: Among those at risk, the first four weeks following service require intensive monitoring and case management.

Figure 12 clearly demonstrates that the majority (80%) of non-fatal events occur within four weeks of receiving VHA services. An additional 10% of events occur in the second month following last VHA service visit. These findings have important implications for treatment and prevention efforts as the majority of those with report of a suicide event are active, recent VHA users.

Furthermore, nearly 50% of the individuals with a VHA service visit in the year preceding the suicide event were last seen in the outpatient primary care setting (Figure 13). This implies that primary care should be an integral component of VHA suicide prevention programs and primary care clinicians should continue to receive support and training on the identification and management of those experiencing distress. Another 40% of those with report of one or more

suicide events were last seen for mental health services indicating a need for continued assessment and risk management following use of VHA services among those with known risk factors (i.e. mental health diagnosis).

Figure 13: Prevalence of Last Point of Care Prior to a Non-Fatal Event

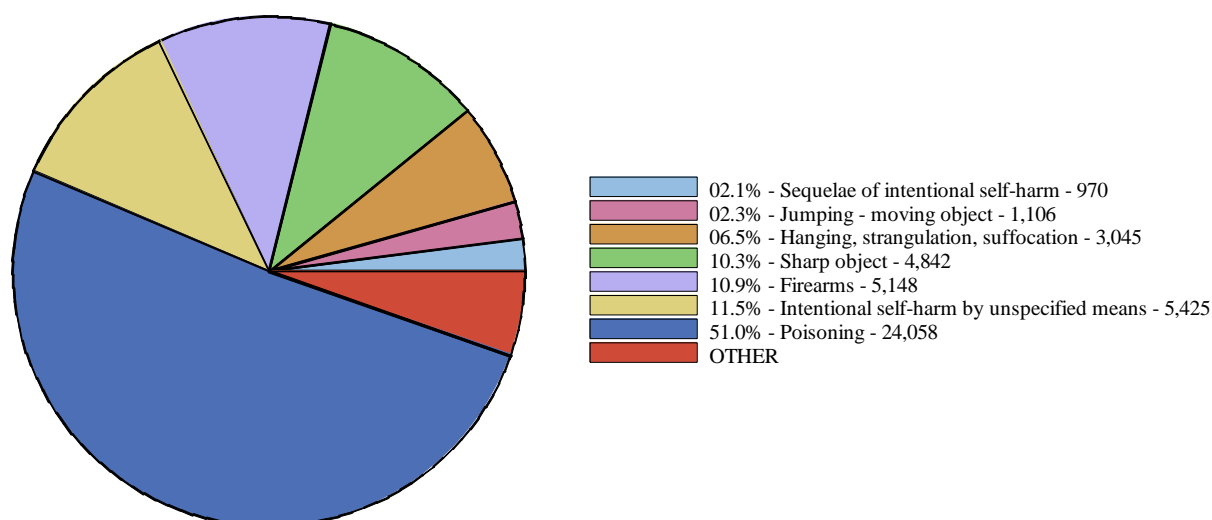


Main Finding: The majority of Veterans who have a suicide event were last seen in an outpatient setting.

The majority of nonfatal events were the result of an overdose or intentional poisoning. However, nearly 11% of non-fatal attempts were made with a firearm. Additional research on the characteristics and outcomes among this group is needed. However, it is important to note that this number may include both Veterans who held a loaded gun but never discharged the firearm and those who suffered a non-fatal injury. Given the high case-fatality for firearm events in general, this finding highlights an opportunity and need to understand more about this group including risk factors, future suicide event rates and re-attempt methods in order to direct effective prevention and treatment services.

Figure 14: Prevalence of Method Indicated in Non-Fatal Event, FY2009-FY2012

Method Indicated for Non-Fatal Event



Main Finding: A majority of non-fatal events were the result of overdose or other intentional poisoning.

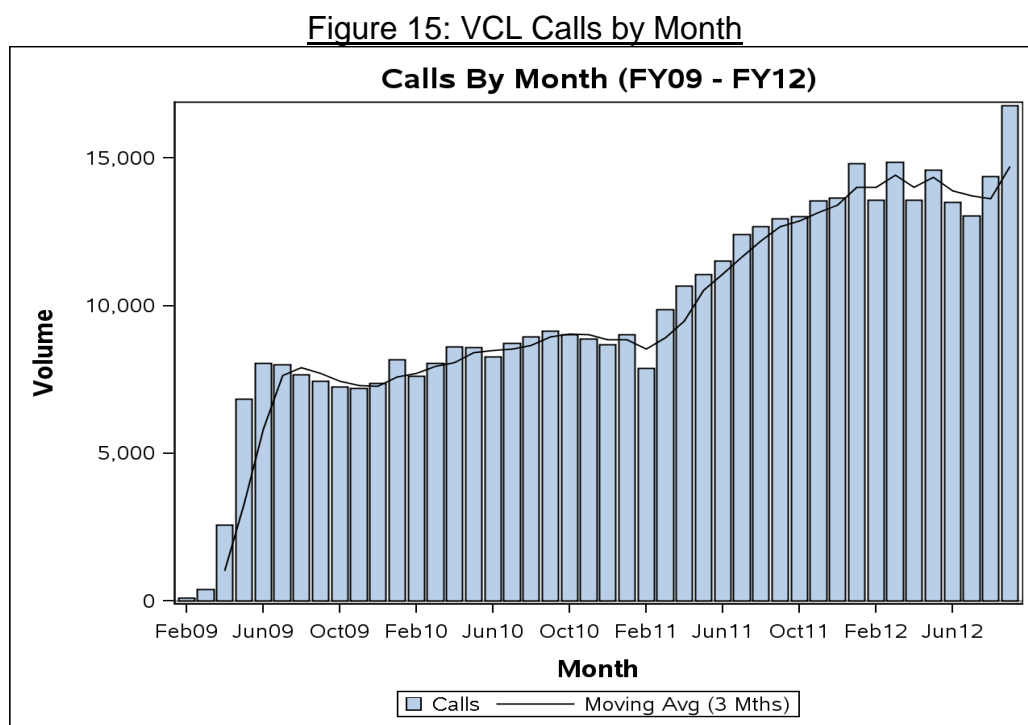
Veterans Crisis Line

The Veteran Crisis Line application collects information related to calls from Veterans, their families and their friends in need. Calls are mainly received from callers to the National Lifeline (1-800-273-TALK), where the caller pushed “1” for Veteran services. The Veteran Crisis Line is staffed 24 hours a day, 7 days a week by trained Veteran Affairs employees with backgrounds in mental health services. The information collected during each call includes date and time of call, history of suicidal ideation and events, access to means, substance use, social support, and perceived intent of suicide event. The majority of information is based on the flow of the call, and the number of mandatory fields is kept at a minimum. Most callers are anonymous (i.e. they do not provide identifying information) and do not result in a rescue. Information on outcome of the call and referrals for VHA services are collected and,

when available, can be used to identify outcomes among callers to the Veterans Crisis Line (VCL).

Prevalence and Characteristics of Calls to the Veterans Crisis Line

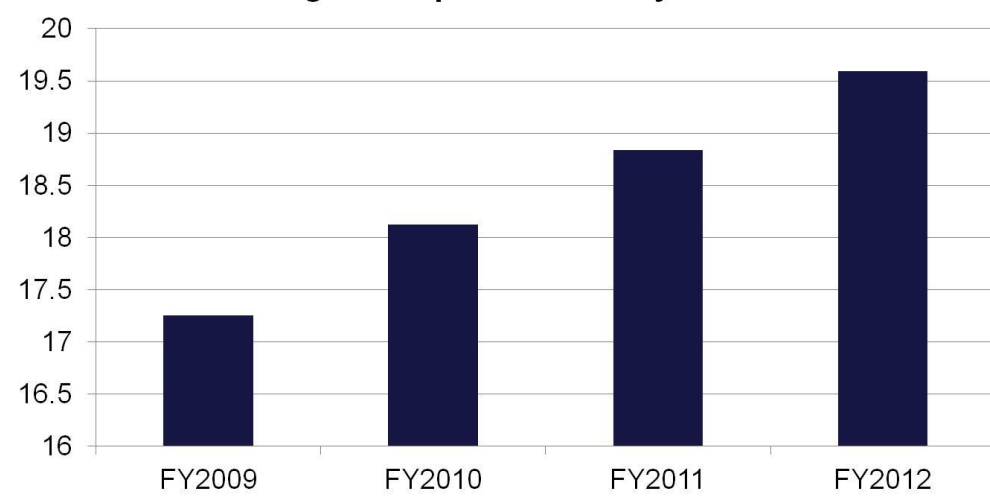
Since 2009, calls to the Veterans Crisis Line have continued to increase with a noticeable spike in call volume beginning in or around May 2011 (Figure 15). Around this same time, the VA re-branded the hotline from the “Veterans Suicide Prevention Line” to the “Veterans Crisis Line” and launched the ‘It’s Your Call’ media campaign promoting the newly named crisis line to Veterans and their family and friends. The evaluation of this campaign highlights this type of messaging as a viable method to encourage help seeking and promote the use of VA mental health services to Veteran populations. However, in order to support and sustain help seeking behaviors and maintain an upward trend in call volume the continuation of messaging activities should be considered.



Main Finding: Calls to the Veterans Crisis Line continue to increase and this increase may be associated with efforts to enhance awareness of VHA services through public education campaigns.

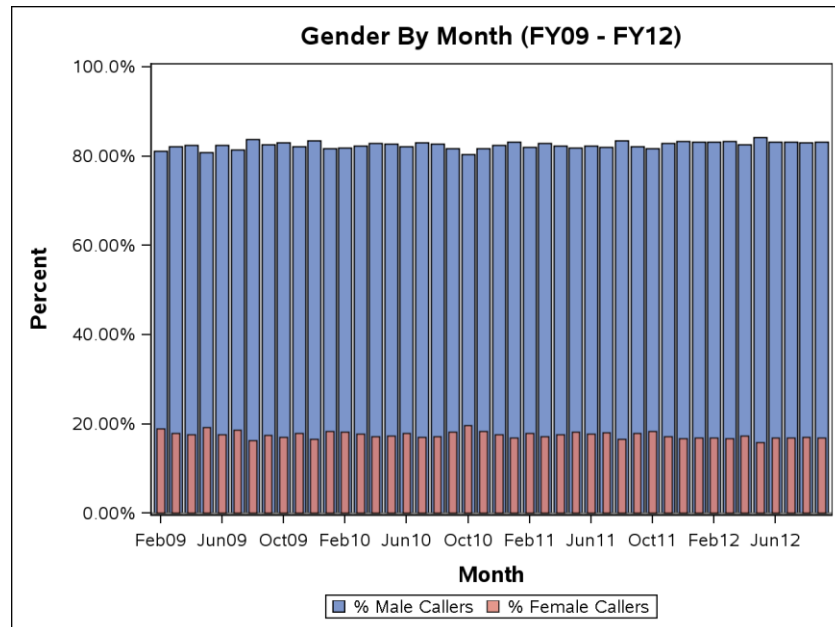
The percentage of repeat callers (i.e., callers from a single phone number or who have received a referral/rescue within 30 days of another call) has consistently increased over the past four years. For some, the Veterans Crisis Line may be instrumental in providing support and care and prompt individuals to access it more than once. As shown in Figure 16 below, the percentage of repeat callers has steadily increased over time from 17.25% in FY 2009 to almost 19.6% reported in FY 2012. These numbers may reflect change in the type of help individuals are seeking (e.g. rather than calling in crisis, calls may be for help with symptoms such as insomnia) or are indicative of the expansive role the Veterans Crisis Line may play in the provision of care to Veterans.

Figure 16: Percentage of Repeat Callers by Year
Percentage of Repeat Callers by Fiscal Year



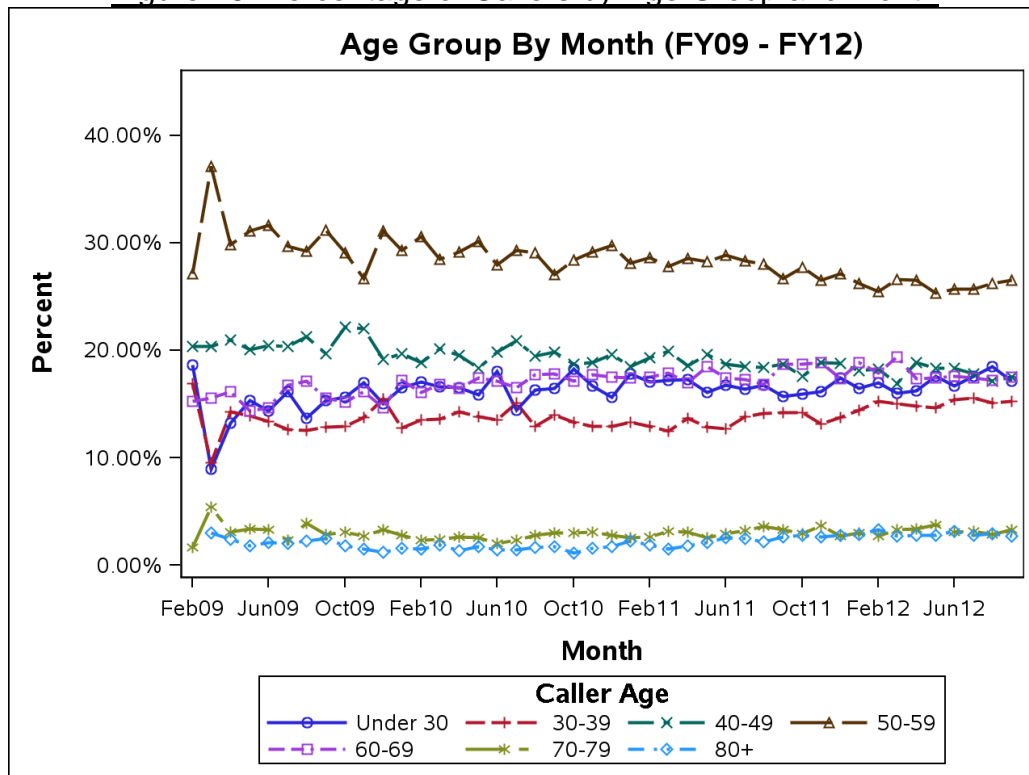
Females accounted for approximately 20% of calls each month (Figure 17), however, the majority of callers to the Veterans Crisis Line were male (almost 80% per month). Despite identification as a group less willing to seek psychological help, males more often connected to the Veterans Crisis Line, a trend that was relatively stable between 2009 and 2012.

Figure 17: Percentage of Callers by Sex and Month



Main Finding: The majority of all callers to the Veterans Crisis Line are male.

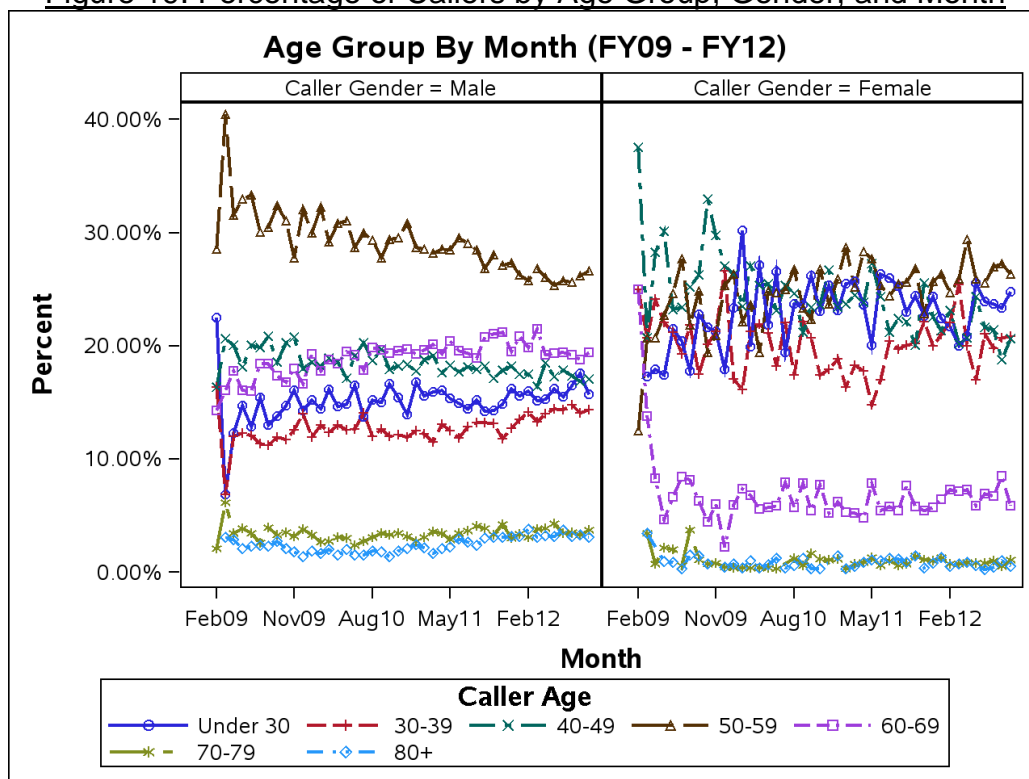
Figure 18: Percentage of Callers by Age Group and Month



Main Finding: The majority of callers to the Veterans Crisis Line are between the ages of 50-59.

Although people of all ages utilize the Veterans Crisis Line, the largest percentage of calls each month to the Veterans Crisis Line were made by individuals between the ages 50-59 years old (approximately 30% of all calls each month). Rates of suicide among middle-age men in the general population have increased during the past three years. Therefore, use of the Veterans Crisis Line may be particularly important for members of this group. As shown in Figure 18, the comparatively high prevalence of callers between the ages 50-59 years was sustained over time and suggests that the Veterans Crisis Line may provide a resource and access to care for those belonging to high-risk subgroups of the larger population. Overall, the percentage of calls to the Veterans Crisis Line from adults aged 40 years and younger and 60-69 years is similar, with a comparatively small percentage (less than 10%) of calls among those aged 70 years and older.

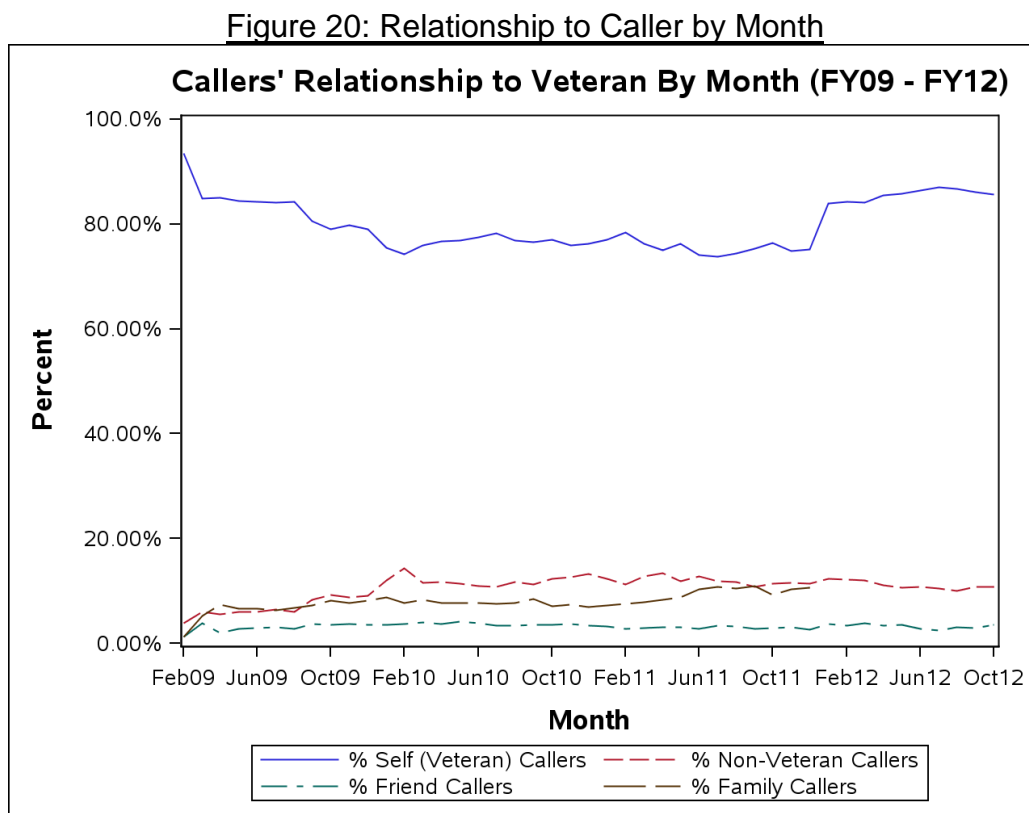
Figure 19: Percentage of Callers by Age Group, Gender, and Month



Main Finding: Age composition of callers to the VCL is distinct between genders.

Further analysis of monthly calls made to the Veterans Crisis Line reveal that the composition of callers' age differs by gender. The majority of male callers each month are between the ages of 50-59 with the fewest calls made by those ages 70 and older. However, among female callers, the pattern is less distinct as trends in calls to the crisis line fluctuate over time with several age groups making the majority of calls (primarily those 59 and younger), and older females (70 and older) contributing less than 10% to calls per month.

A majority of all callers to the Veterans Crisis Line identified as Veterans (Figure 20). Overall, approximately 80% of all callers to the Veterans Crisis Line identify as Veterans and the remainder of other callers (including friends, family members, and all non-military others) contributed to less than 20% of total call volume each year.

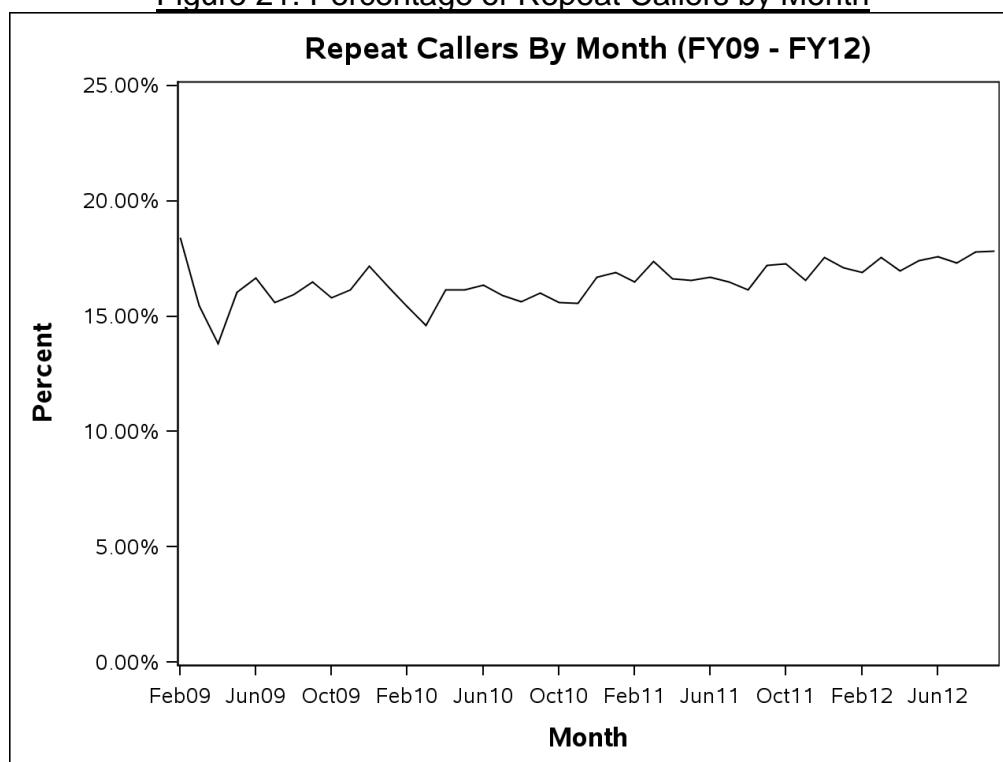


Main Finding: Approximately 80% of callers to the Veterans Crisis Line identify as Veterans.

The percentage of Veteran callers to the Veterans Crisis Line has remained comparatively constant since the first quarter of 2010. The sudden rise in Veteran callers from 60% in early 2009 to more than 80% in February 2010 may be attributable to a rebranding of the Veterans Crisis Line and the introduction of the Military Crisis Line in FY2011. While the Veterans Crisis Line is identified to active duty personnel as the Military Crisis Line, the percentage of active duty callers has remained constant since February 2009 at just over 1%. It is possible that some active duty personnel may be identifying themselves as Veterans.

The percentage of repeat callers to the VCL has largely been relatively consistent across the past four fiscal years. (Figure 21) However, a notable drop in the percentage of repeat callers is observable in early 2009, with the number of repeat callers falling from approximately 19% to 13%. Since then, the percentage of repeat callers has continued to steadily increase back to approximately 19%, where it has remained fairly constant since the second quarter of 2011.

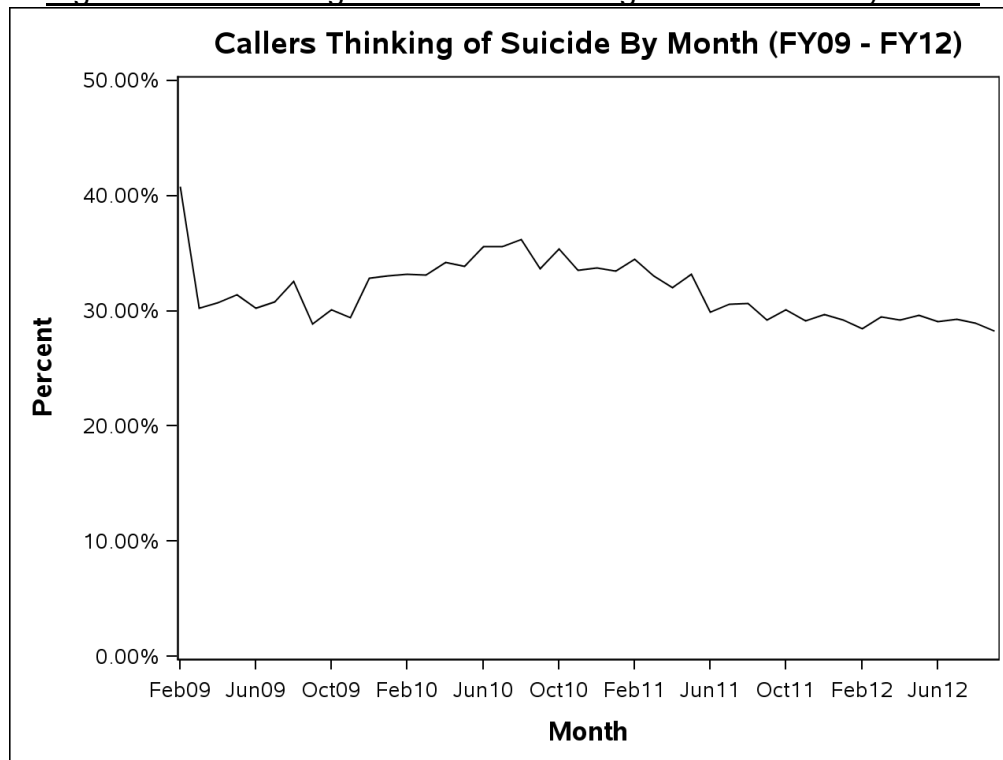
Figure 21: Percentage of Repeat Callers by Month



Main Finding: Approximately 19% of calls to the Veterans Crisis Line call more than once each month.

Based on the prevalence of callers reporting thoughts of suicide at the time of the call, there currently seems to be a slight downward trend in the percentage of callers thinking of suicide (Figure 22). A sharp drop was first noted in early 2009, where this number fell from more than 40% to approximately 30%. However, it is possible that this decrease was associated with implementation of the Veterans Crisis Line and characteristics of early adopters of this service. This drop was then followed by a steady increase which peaked in the third quarter of 2010 at approximately 35%. This number has again decreased, with the percentage of callers thinking of suicide presently approximating to the same prevalence observed in 2009. Research is recommended to determine possible causes and differences in caller characteristics or outcomes associated with this change.

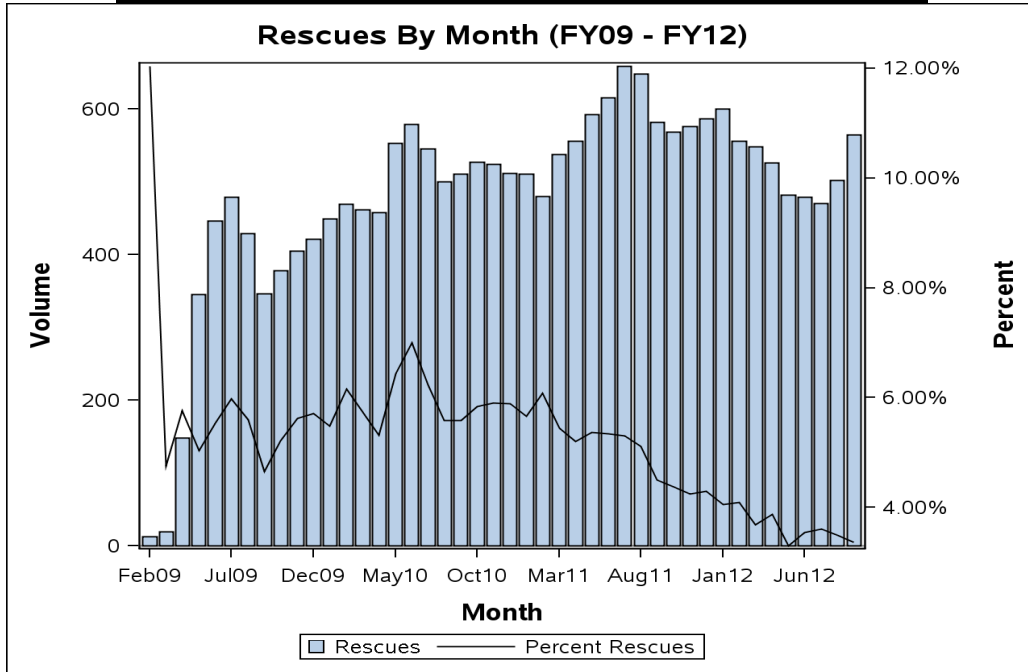
Figure 22: Percentage of Callers Thinking about Suicide by Month



Main Finding: The percentage of callers to the Veterans Crisis Line who are currently thinking of suicide has decreased.

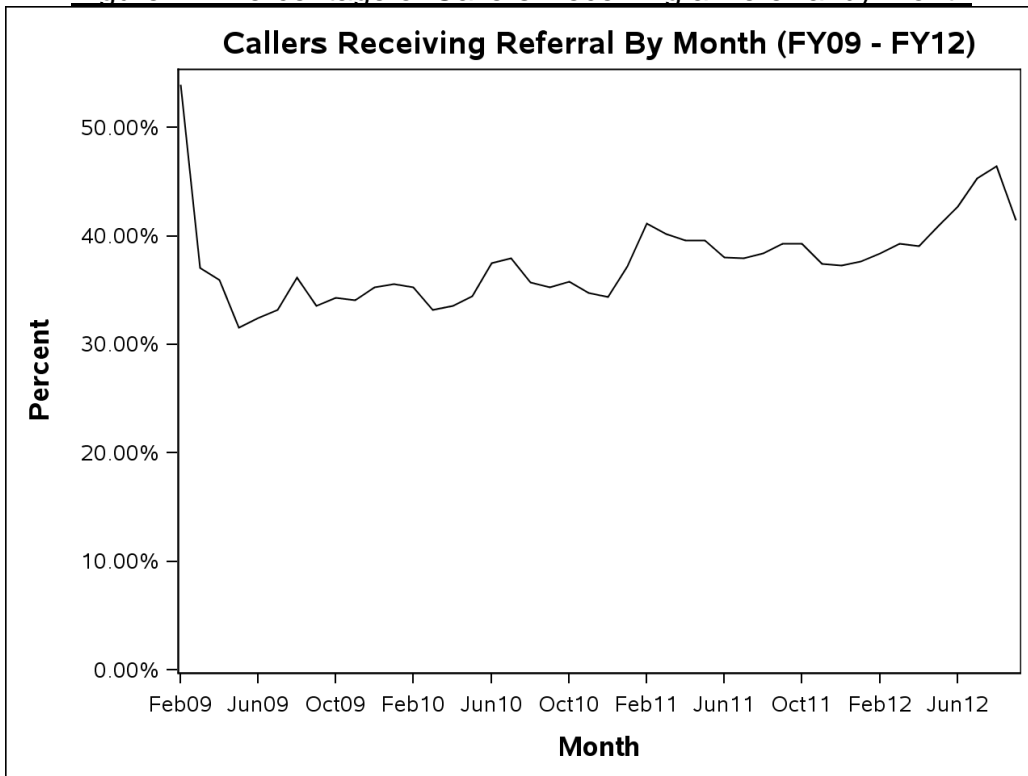
The number and percentage of rescues performed each month has also progressively declined (Figure 23). Following a sharp drop in early 2009, this percentage of all calls resulting in a rescue increased to approximately 7% in June 2010 and has consistently decreased, now totaling approximately 3% of all calls. This change may be indicative of fewer callers presenting with crisis states making them at imminent risk of suicide as well as more callers presenting with a greater diversity of problems.

Figure 23: Number and Percentage of Rescues by Month



Main Finding: The percentage of all calls resulting in a rescue has decreased.

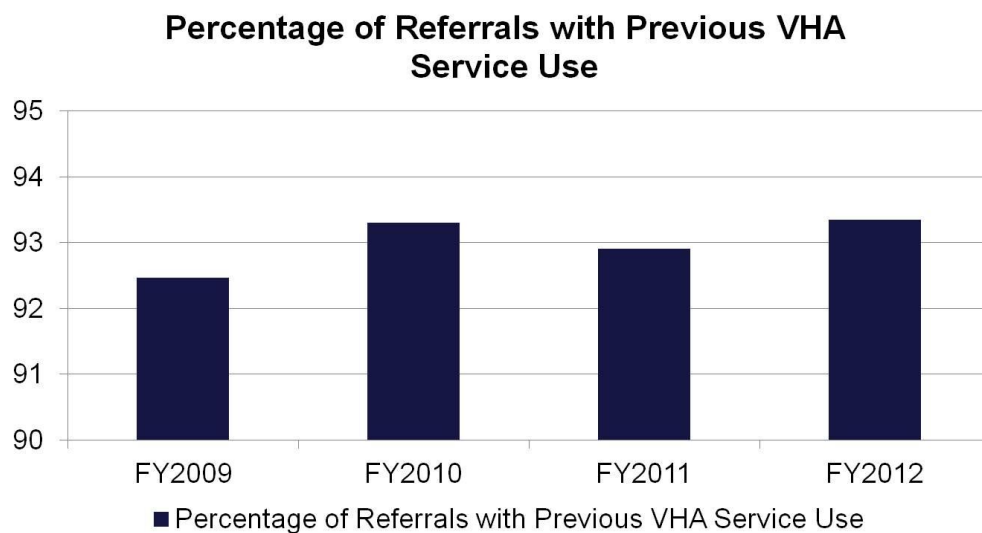
Figure 24: Percentage of Callers Receiving a Referral by Month



Main Finding: The percentage of callers receiving a referral for follow-up care is increasing.

The percentage of callers receiving a referral has been steadily increasing from approximately 31% in early 2009 to more than 40% in FY2012 (Figure 24). This increase may be due to callers to the VCL presenting more distally in the risk continuum or a shift in caller preferences, with more callers demonstrating willingness to accept referrals for clinical services.

Figure 25: Percentage of Callers Receiving a Referral with Previous VHA Service Use by Month

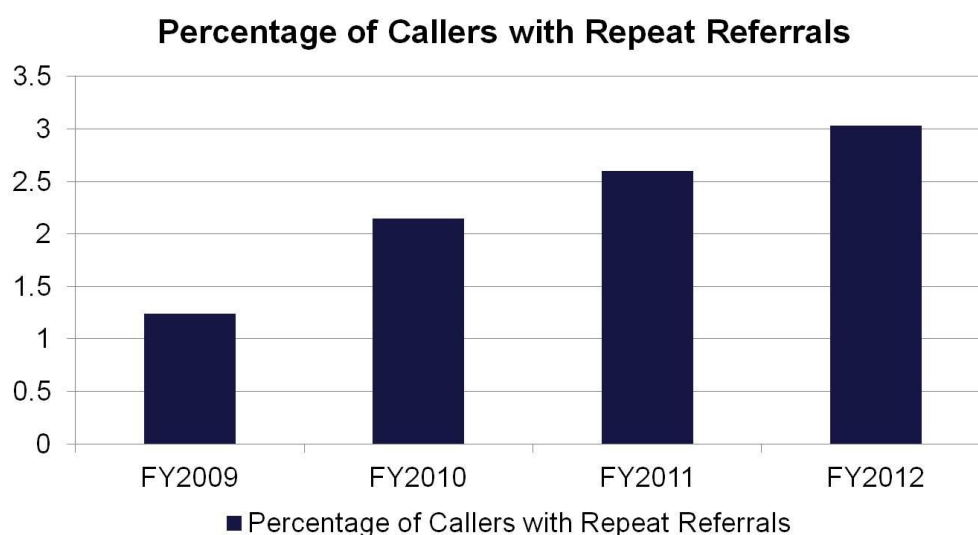


Main Finding: Approximately 93% of all Veterans Crisis Line referrals are made to callers with a history of VHA service use in the past 12 months.

The percentage of callers receiving a referral with history of VHA service in the 12 months preceding a referral rose from approximately 92.5% in FY2009 to just over 93% in FY2010 (Figure 25). This number then slightly dropped in FY2011, only to return to just over 93% in FY2012.

Callers who receive more than one referral in a fiscal year have consistently between FY2009 – FY2012; with approximately 3% of all callers to the Veterans Crisis Line receiving more than one referral for care in FY2012 (Figure 26).

Figure 26: Percentage of Callers with Repeat Referrals by Year



Main Finding: Slightly more than 3% of callers receive more than one referral each year.

Figures 27-29 demonstrate patterns of VHA service use before and following a referral for service and are largely consistent across years. Between 61-90 days before the referral, mental health residential/domiciliary stays averaged 20 days per stay, decreasing to approximately 15 days per stay at 0-30 days after a referral. The length of a stay for residential and domiciliary care then increases to 22-23 days per stay at 61-90 days post-referral. In contrast, inpatient mental health stays averaged 7-8 days per stay at 61-90 days before and after a referral. Other inpatient stays slightly increased at 90 days following a referral, from approximately 5 days in FY2009 to 6-7 days in FY2010-FY2011. Other inpatient stays would then decrease to approximately 5 days per stay around the time of the referral, rising to 6-7 days per stay at 61-90 days after a referral. Overall, there was an average of 4 outpatient mental health encounters between 31-60 days after a referral, rising to an average of 5 encounters between 61-90 days following a referral.

Figure 27: Service Use Before and After Receiving a Referral, FY2009

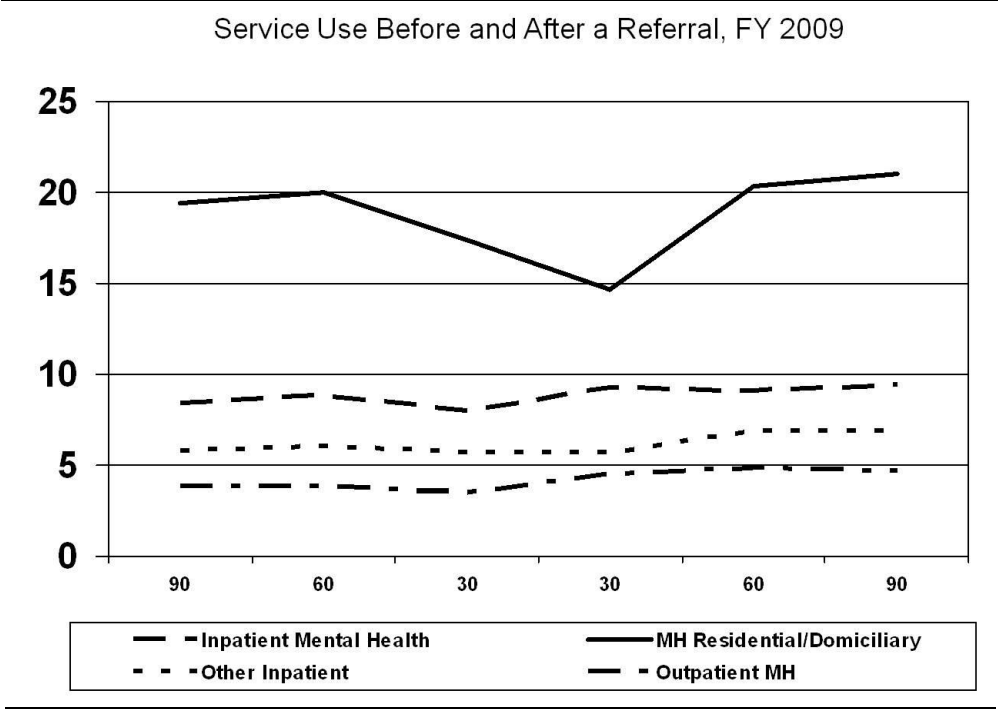


Figure 28: Service Use Before and After Receiving a Referral, FY2010

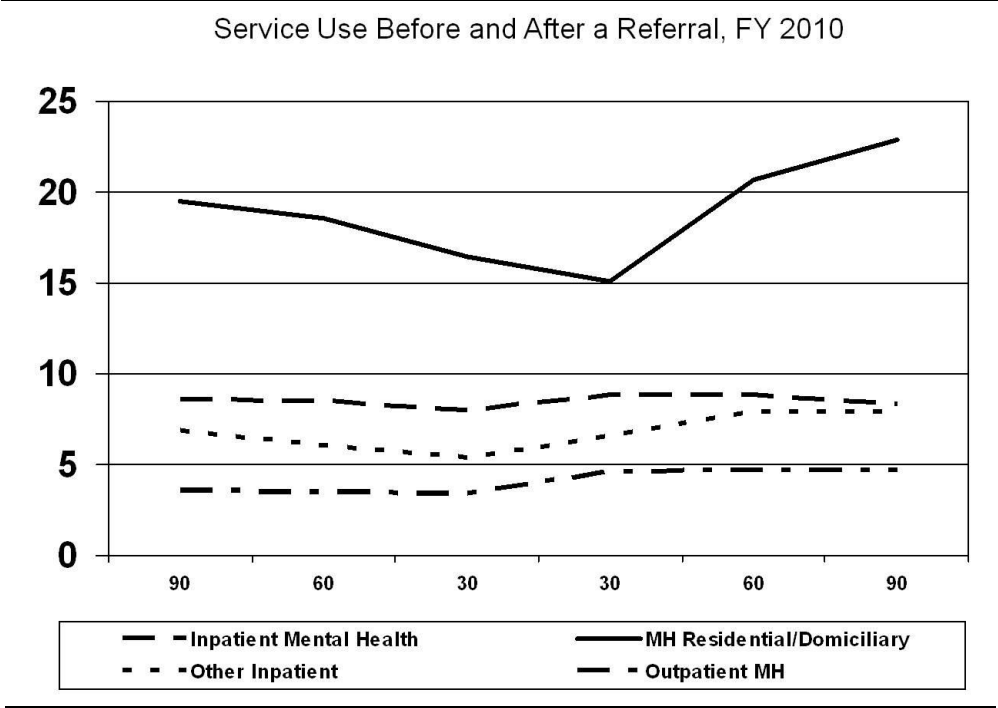
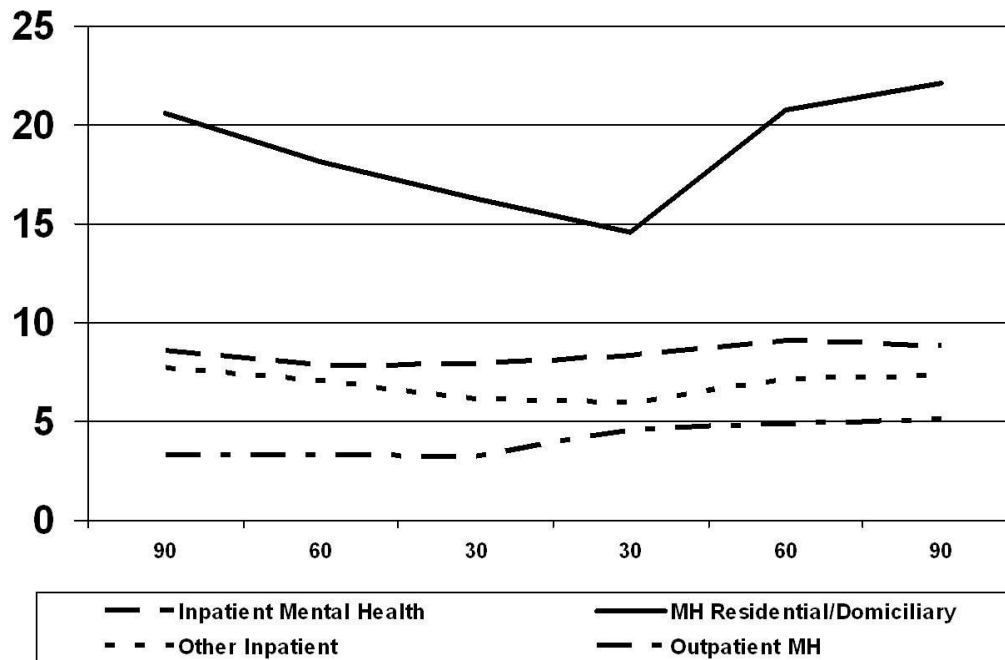


Figure 29: Service Use Before and After Receiving a Referral, FY2011

Service Use Before and After a Referral, FY 2011



Main Finding: Service use continues to increase following a referral for care.

Patterns of service use among Veterans with history of VHA services that were rescued following a call to the Veterans Crisis Line were consistent with increases noted following a referral. Overall, mental health residential/domiciliary stays showed little variability between FY2010-FY2011, ranging from approximately 20 days per stay at 61-90 days before the rescue to 15 days per stay around the time of the rescue, rising to 21-22 days per stay at 61-90 days following a rescue (Figures 30-32). The number of inpatient days and encounters varies from FY2009, where these stays rose to 25 days per stay at 1-30 days before a rescue, falling to 15 days in the 0-30 days following a rescue, rising to 20 days per stay at 61-90 days after the event. Between FY2009-FY2011, inpatient mental health stays averaged 8 days per stay at 30-90 days before the rescue, rising approximately 25% to about 10 inpatient days 31-90 days after the rescue. Other inpatient stays averaged 6 days per stay at 31-90 days before

and after the rescue in FY2009 and FY2011. In FY2010, other inpatient stays averaged 6 days per stay at 31-90 days before a rescue and rose to an average of 8 inpatient days between 61-90 days after a rescue.

Figure 30: Service Use Before and After a Rescue, FY2009

Service Use Before and After a Rescue, FY 2009

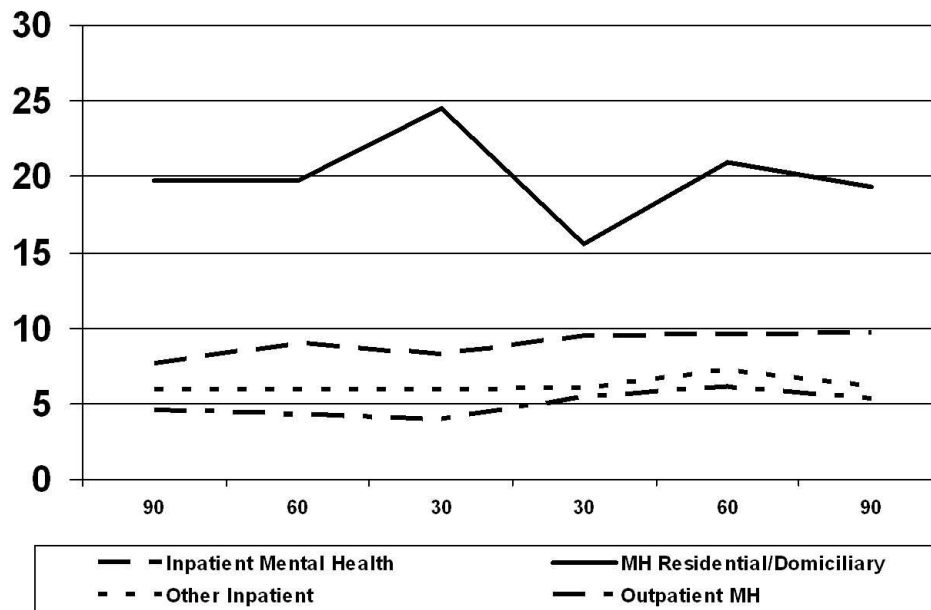


Figure 31: Service Use Before and After a Rescue, FY2010

Service Use Before and After a Rescue, FY 2010

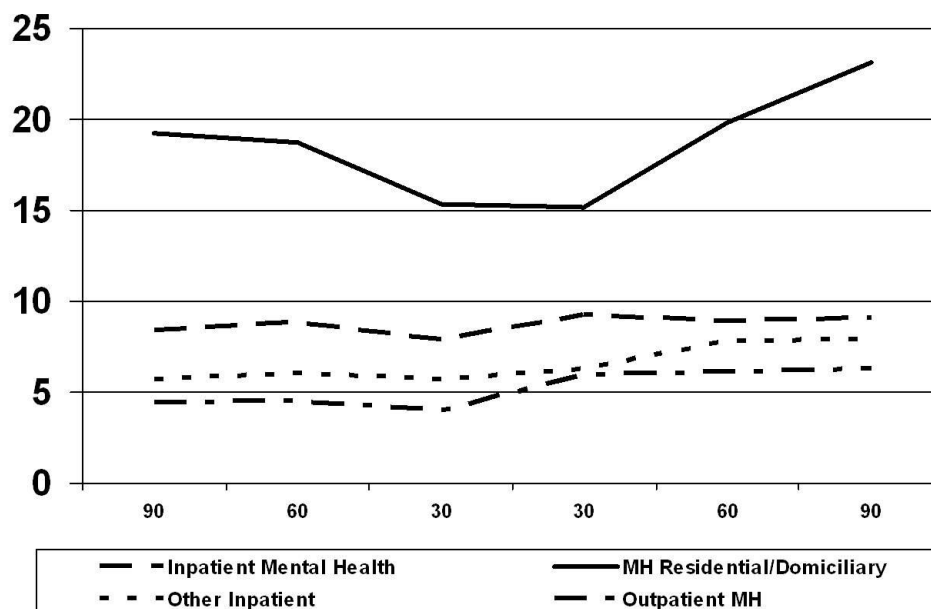
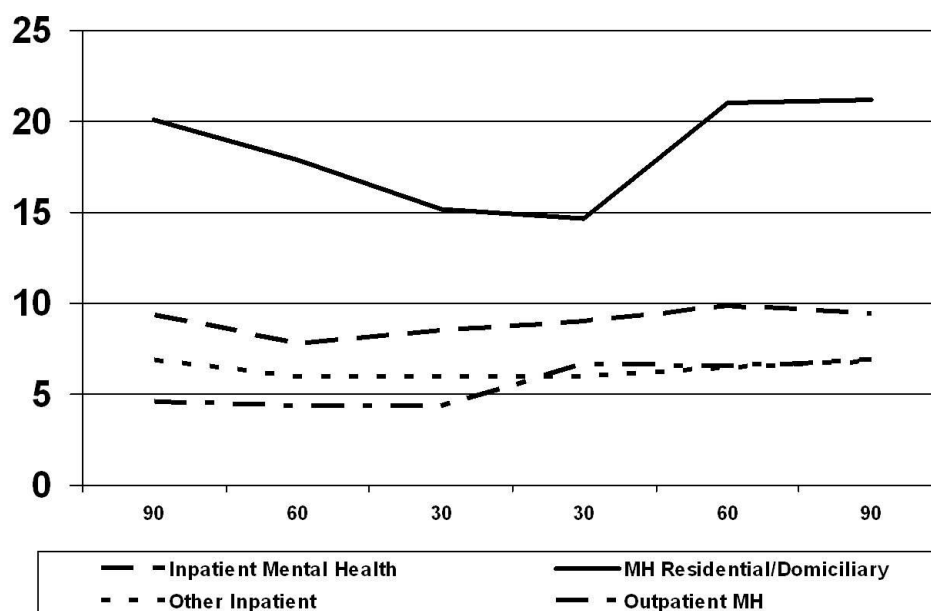


Figure 32: Service Use Before and After a Rescue, FY2011

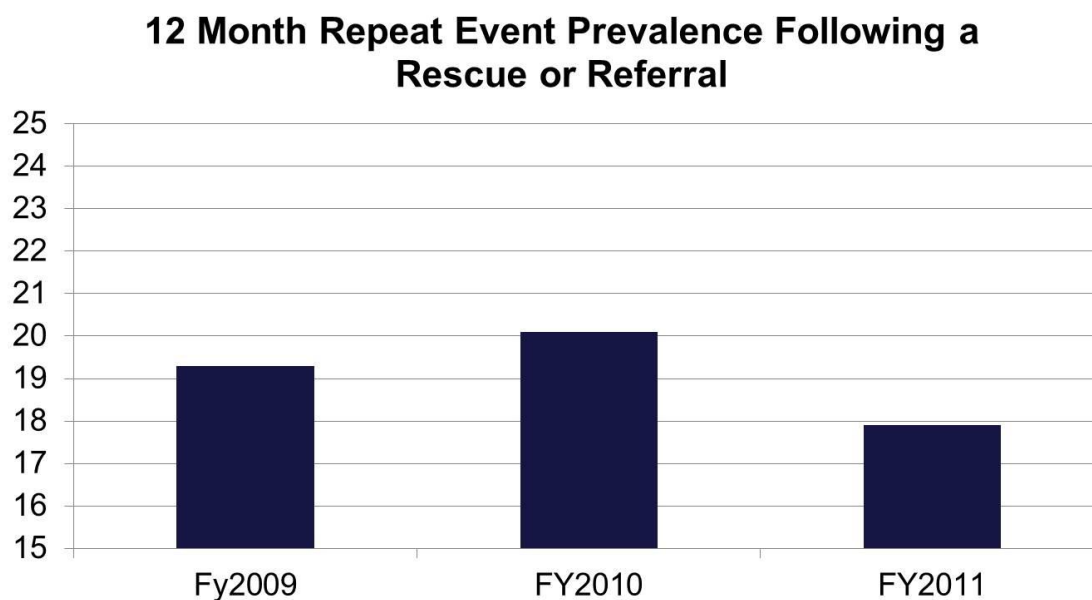
Service Use Before and After a Rescue, FY 2011



Main finding: Between FY2009 – FY2011, use of inpatient and outpatient services increased following a rescue.

Callers to the Veterans Crisis Line who receive a referral for follow-up care or who result in a rescue represent two groups that may be at increased risk for suicide. Increased risk for repeat suicide attempts has been identified among those who survive an initial suicide event and, among callers to the Veterans Crisis Line, may be greatest among Veterans who have attempted suicide before the time of their first referral or rescue resulting for a call to the Veterans Crisis Line. The suicide reattempt prevalence rate in FY2009 was approximately 19, increasing to 20 in FY2010, and decreasing to 18 in FY2011. (Figure 33) This change in 12-month reattempt prevalence rates may be due to a decrease in the number of non-fatal suicide attempters who call the Veterans Crisis Line as well as a sign of effective identification and management of risk following a rescue or referral.

Figure 33: 12 Month Suicide Re-event Prevalence among Those Receiving a Referral or Rescue



Main finding: The 12 month re-event prevalence has decreased among those who have been rescued or received a referral for follow-up care.

Conclusions

The report contains prevalence data and characteristics of suicide among Veterans and evidence of change in outcomes among Veterans at risk for suicide. Included in this report are an overview and analysis of information collected through collaborative data sharing agreements with U.S. states, reports of non-fatal suicide events among Veterans using VHA services and analysis of data obtained from the Veterans Crisis Line. Data collected through the Department of Veterans Affairs' (VA) initiatives identify opportunities for the continued support and development of new prevention programs. Major findings of the report include:

- While the percentage of all suicides reported as Veterans has decreased, the number of suicides has increased
- A majority of Veteran suicides are among those age 50 years and older. Male Veterans who die by suicide are older than non-Veteran males who die by suicide.
- The age distribution of Veteran and non-Veteran women who have died from suicide is similar.
- The demographic characteristics of Veterans who have died from suicide are similar among those with and without a history of VHA service use.
- Among those at risk, the first 4 weeks following service require intensive monitoring and case management (which verifies the importance of the Enhanced Care Package for those at high risk).
- There is preliminary evidence in 2012 indicating a decrease in the rate of non-fatal suicide events for VHA utilizing Veterans.
- Decreasing rates of non-fatal suicide events are associated with increasing age.
- The data show a decrease in the 12 month re-event prevalence in fiscal year (FY) 2012.
- The majority of Veterans who have a suicide event were last seen in an outpatient setting. A high prevalence of non-fatal suicide events result from overdose or other intentional poisoning.
- Continued increases in calls to the Veterans Crisis Line may be associated with efforts to enhance awareness of VHA services through public education campaigns.

- The majority of callers to the Veterans Crisis Line are male and between the ages of 50-59.
- Differences in the age composition of callers to the Veterans Crisis Line are associated with gender.
- A large percentage of callers to the Veterans Crisis Line are identified as Veterans.
- Approximately 19 percent of callers to the Veterans Crisis Line call more than once each month.
- The percentage of callers to the Veterans Crisis Line who are currently thinking of suicide has decreased.
- The percentage of all calls resulting in a rescue has decreased, indicating that the calls are less emergent and callers are using the Crisis Line earlier.
- The percentage of callers receiving a referral for follow-up care is increasing.
- Approximately 93 percent of all Veterans Crisis Line referrals are made to callers with a history of VHA service use in the past 12 months.
- Service use continues to increase following a referral for care.
- Between FY 2009 – FY 2011, use of inpatient and outpatient services increased following a rescue.
- The 12 month re-event prevalence has decreased among those who have been rescued or received a referral for follow-up care.

Although this was not a research-based analysis and there are significant limitations in the data that are available, as described in the report, this first attempt at a comprehensive review of Veteran suicide does provide us with valuable information for future directions in care and program development. While the numbers of Veterans who die from suicide each day has remained relatively stable over the past 12 years (varying from 18 -22 per day), the percentage of people who die by suicide in America who are Veterans has decreased slightly. At the same time, the number of Americans who die by suicide each day has increased. This provides preliminary evidence that the programs initiated by VA are improving outcomes. VA

must continue to provide a high level of care, and recognize that there is still much more work to do. As long as Veterans die by suicide, we must continue to improve and provide even better services and care. This report provides us with valuable information about opportunities to do even better work.

A taskforce designed to provide recommendations for innovating Mental Health care in VA has been established and will be given this report to help guide its work. A report from this inter-agency group will be forth-coming to the inter-agency task force developed to implement the Mental Health Executive Order which is highly focused on suicide prevention. The work of this group includes developing action plans to address risk in a broader sense for all patients in both mental health and non-mental health settings. This includes reassessing the value of traditional suicide risk assessments and screening (which is done now extensively in VA), and adding ways to identify life stressors and concerns earlier. Improving risk identification through these alternative approaches and increasing the numbers of Veterans who are engaged in the enhanced follow-up program may address that identified sensitive time period following VA contact as an outpatient as well as for inpatients.

Population groups identified in the report that require additional interventions and engagement include women Veterans and Vietnam Era Veterans. Additional VA training programs will be developed targeting providers of these groups of patients and Suicide Prevention Coordinators will be provided materials to do “refresher” training on suicide risk awareness and risk assessment for all staff.

Outreach remains critically important. Knowing that VA treatment strategies are effective provides an impetus to get more Veterans involved in treatment programs earlier. Maintaining

the availability of the Veterans Crisis Line to address all areas of concern for Veterans is valuable. Our communication and outreach strategies appear to be effective in this area – we should continue our work and expand in this area.

VA recognizes its role and responsibility in maintaining the safety and well-being of our nation's Veterans of all eras. We will diligently continue to pursue successful and effective interventions for those Veterans at risk for suicide and those suffering from mental health related concerns through research and practice using all available information and data. We will continue to add to this information base as data continues to become available and provide updates to this on-going report.

Appendix A: Veteran Status on Death Certificate by State and Year

State/Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Alabama	K	K	K	K	K	K	K	K	K	K	K	K	K
Alaska	K	K	K	K	K	K	K	K	K	K	K	K	K
Arizona	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	K	K	K	K
Arkansas	K	K	K	K	K	K	K	K	K	K	K	K	K
California	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K	K	K
Colorado	K	K	K	K	K	K	K	K	K	K	K	K	K
Connecticut	A,NK	A,NK	K	K	K	K	K	K	K	K	K	K	K
Delaware	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K
Florida	K	K	K	K	K	K	K	K	K	K	K	K	K
Georgia	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K	K	K	K
Hawaii	K	K	K	K	K	K	K	K	K	K	K	K	K
Idaho	K	K	K	K	K	K	K	K	K	K	K	K	K
Illinois	A,NK	A,NK	K	K	K	K	K	K	K	K	K	K	K
Indiana	K	K	K	K	K	K	K	K	K	K	K	K	K
Iowa	K	K	K	K	K	K	K	K	K	K	K	K	K
Kansas	K	K	K	K	K	K	K	K	K	K	K	K	K
Kentucky	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K
Louisiana	K	K	K	K	K	K	K	K	K	K	K	K	K
Maine	K	K	K	K	K	K	K	K	K	K	K	K	K
Maryland	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK	A, NK
Massachusetts	K	K	K	K	K	K	K	K	K	K	K	K	K
Michigan	K	K	K	K	K	K	K	K	K	K	K	K	K
Minnesota	K	K	K	K	K	K	K	K	K	K	K	K	K
Mississippi	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K	K	K	K
Missouri	K	K	K	K	K	K	K	K	K	K	K	K	K
Montana	K	K	K	K	K	K	K	K	K	K	K	K	K
Nebraska	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K	K	K
Nevada	K	K	K	K	K	K	K	K	K	K	K	K	K
New Hampshire	K	K	K	K	K	K	K	K	K	K	K	K	K
New Jersey	K	K	K	K	K	K	K	K	K	K	K	K	K
New Mexico	A,NK	A,NK	A,NK	K	K	K	K	K	K	K	K	K	K
New York	K	K	K	K	K	K	K	K	K	K	K	K	K
New York City	K	K	K	K	K	K	K	K	K	K	K	K	K
North Carolina	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK
North Dakota	K	K	K	K	K	K	K	K	K	K	K	K	K
Ohio	K	K	K	K	K	K	K	K	K	K	K	K	K
Oklahoma	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K	K	K
Oregon	K	K	K	K	K	K	K	K	K	K	K	K	K
Pennsylvania	K	K	K	K	K	K	K	K	K	K	K	K	K
Rhode Island	K	K	K	K	K	K	K	K	K	K	K	K	K
South Carolina	K	K	K	K	K	K	K	K	K	K	K	K	K
South Dakota	K	K	K	K	K	K	K	K	K	K	K	K	K
State Department	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tennessee	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K
Texas	K	K	K	K	K	K	K	K	K	K	K	K	K
Utah	K	K	K	K	K	K	K	K	K	K	K	K	K
Vermont	K	K	K	K	K	K	K	K	K	K	K	K	K
Virginia	K	K	K	K	K	K	K	K	K	K	K	K	K
Washington	K	K	K	K	K	K	K	K	K	K	K	K	K
Washington, DC	K	K	K	K	K	K	K	K	K	K	K	K	K
West Virginia	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	A,NK	K
Wisconsin	K	K	K	K	K	K	K	K	K	K	K	K	K
Wyoming	A,NK	A,NK	A,NK	A,NK	A,NK	K	K	K	K	K	K	K	K

A=asked, NA=not asked, K=keyed, NK=not keyed

Appendix B: Timeframe for Updated to Mortality Data by State

State	Timeframe of Data Availability
Alabama	Fall of following year
Alaska	Fall of following year
Arizona	Late Fall of following year
Arkansas	Spring of following year
California	Late Fall of following year
Colorado	Spring of following year
Connecticut	December of following year (last year finalized 2010)
Delaware	Late Fall of following year
Florida	Summer of following year
Georgia	Spring of following year
Hawaii	June of following year
Idaho	April 30th of following year
Illinois	Irregular, 2009 by Dec 2012, 2010 by Jan 2013, ongoing by 3rd Qtr
Indiana	Late Fall of following year
Iowa	June/July of following year
Kansas	Fall plus 1 year (last year finalized 2010)
Kentucky	Early Summer of following year
Louisiana	End of following year
Maine	June of following year
Maryland	Late Fall of following year
Massachusetts	Fall plus 3 years (last year finalized 2009)
Michigan	Late Summer/Fall of following year (2011 delayed due to new system)
Minnesota	Spring of following year
Mississippi	June of following year
Missouri	Late Spring/Early Summer of following year
Montana	Fall of following year
Nebraska	Fall plus 2 years (last year finalized 2010)
Nevada	Fall of following year
New Hampshire	Several Years behind in finalizing death files (last finalized 2007)
New Jersey	Fall of following year
New Mexico	June of following year
New York	Late Fall of following year
New York City	Late Fall of following year
North Carolina	Mid-Summer of following year
North Dakota	Fall of following year
Ohio	Spring of following year
Oklahoma	Several years behind in finalizing death files (last year finalized 2009)
Oregon	Summer plus 1 year (last year finalized 2010)
Pennsylvania	December of following year
Rhode Island	July 1 of following year
South Carolina	Late Fall of following year
South Dakota	May/June of following year
State Department	Ongoing
Tennessee	April/May of following year
Texas	December of following year
Utah	May/June of following year
Vermont	Winter plus 2 years (last year finalized 2009)
Virginia	Summer of following year
Washington	Fall of following year
Washington DC	July/August of following year
West Virginia	June of following year
Wisconsin	Jan/Feb of following year
Wyoming	June of following year

Appendix C: Non-Fatal Event Rates by Age Group and Gender (per 100,000 Users)

Appendix C: Non-Fatal Event Rates by Age Group and Gender (per 100,000 Users)																		
	2009				2010				2011				2012				FY09 - FY12	
	Unique Veterans		Rate Per 100,000	With Event Report	Unique Veterans		Rate Per 100,000	With Event Report	Unique Veterans		Rate Per 100,000	With Event Report	Unique Veterans		Rate Per 100,000	With Event Report	Rate Per 100,000	
	With Event Report	Users			With Event Report	Users			With Event Report	Users			With Event Report	Users				
Total	8,823	5,448,058	161.95	11,377	5,638,263	201.78	12,309	5,795,165	212.40	10,764	5,896,509	182.55	43,273	189.98				
Under 30	1,311	214,387	611.51	1,551	247,840	625.81	1,804	291,978	617.85	1,579	305,135	517.48	6,245	589.52				
30-39	1,132	258,462	437.98	1,556	289,470	537.53	1,664	356,030	467.38	1,601	394,241	406.10	5,953	458.56				
40-49	1,918	459,153	417.73	2,405	489,755	491.06	2,337	548,441	426.12	1,960	554,337	353.58	8,620	420.14				
50-59	2,899	907,110	319.59	3,477	905,558	383.96	3,643	956,198	380.99	3,031	950,466	318.90	13,050	350.87				
60-69	1,208	1,461,232	82.67	1,865	1,620,883	115.06	2,137	1,775,373	120.37	1,893	1,829,412	103.48	7,103	106.22				
70-79	224	995,819	22.49	258	967,416	26.67	333	946,885	35.17	285	925,936	30.78	1,100	28.68				
80+	125	867,030	14.42	169	889,362	19.00	196	919,767	21.31	222	936,140	23.71	712	19.71				
Male Total	7,723	4,884,422	158.11	9,972	5,083,674	196.16	10,796	5,272,105	204.78	9,404	5,350,213	175.77	37,895	184.04				
Under 30	1,076	172,018	625.52	1,280	200,575	638.17	1,513	222,188	680.95	1,326	233,000	569.10	5,195	627.58				
30-39	881	206,209	427.24	1,257	231,201	543.68	1,319	266,438	495.05	1,285	296,161	433.89	4,742	474.20				
40-49	1,604	386,712	414.78	1,995	412,540	483.59	1,953	438,461	445.42	1,616	443,065	364.73	7,168	426.47				
50-59	2,645	823,474	321.20	3,147	810,801	388.13	3,261	813,122	401.05	2,703	803,176	336.54	11,756	361.66				
60-69	1,167	1,424,438	81.93	1,802	1,575,324	114.39	2,061	1,704,487	120.92	1,809	1,751,686	103.27	6,839	105.93				
70-79	222	981,144	22.63	243	951,938	25.53	322	928,182	34.69	277	906,783	30.55	1,064	28.24				
80+	123	847,219	14.52	162	869,672	18.63	191	899,227	21.24	216	916,342	23.57	692	19.59				
Female Total	1,089	377,872	288.19	1,279	405,385	315.50	1,479	522,567	283.03	1,318	545,454	241.63	5,165	279.00				
Under 30	232	40,364	574.77	233	47,265	492.97	278	69,790	398.34	237	72,135	328.55	980	426.91				
30-39	249	51,495	483.54	281	58,269	482.25	339	89,592	378.38	304	98,080	309.95	1,173	394.37				
40-49	314	71,610	438.49	383	77,215	496.02	377	109,980	342.79	336	111,272	301.96	1,410	381.00				
50-59	249	83,176	299.37	303	94,757	319.77	377	143,076	263.50	323	147,290	219.30	1,252	267.35				
60-69	40	36,527	109.51	55	45,559	120.72	74	70,886	104.39	84	77,726	108.07	253	109.67				
70-79	2	14,557	13.74	11	15,478	71.07	11	18,703	58.81	8	19,153	41.77	32	47.13				
80+	2	19,733	10.14	6	19,690	30.47	5	20,540	24.34	6	19,798	30.31	19	23.82				

Appendix D: 12-Month Re-Event Prevalence by Age Group and Gender*

		2009			2010			2011		
		Total Count	Repeat Count	Percent	Total Count	Repeat Count	Percent	Total Count	Repeat Count	Percent
Total		8,823	1,343	15.22%	11,377	1,816	15.96%	12,309	1,711	13.90%
Under 30		1,311	174	13.27%	1,551	248	15.99%	1,804	238	13.19%
30-39		1,132	189	16.70%	1,556	269	17.29%	1,664	220	13.22%
40-49		1,918	279	14.55%	2,405	400	16.63%	2,337	342	14.63%
50-59		2,899	477	16.45%	3,477	585	16.82%	3,643	576	15.81%
60-69		1,208	178	14.74%	1,865	257	13.78%	2,137	256	11.98%
70-79		224	25	11.16%	258	34	13.18%	333	38	11.41%
80+		-	-	10.40%	-	-	6.51%	-	-	9.18%
Male	Total	7,723	1,123	14.54%	9,972	1,566	15.70%	10,796	1,492	13.82%
	Under 30	1,076	135	12.55%	1,280	199	15.55%	1,513	192	12.69%
30-39		881	145	16.46%	1,257	212	16.87%	1,319	175	13.27%
40-49		1,604	211	13.15%	1,995	327	16.39%	1,953	278	14.23%
50-59		2,645	423	15.99%	3,147	528	16.78%	3,261	521	15.98%
60-69		1,167	166	14.22%	1,802	249	13.82%	2,061	248	12.03%
70-79		222	25	11.26%	243	31	12.76%	322	38	11.80%
80+		-	-	10.57%	-	-	6.79%	-	-	9.42%
Female	Total	1,089	199	18.27%	1,279	213	16.65%	1,479	218	14.74%
	Under 30	232	34	14.66%	233	44	18.88%	278	46	16.55%
30-39		249	40	16.06%	281	53	18.86%	339	45	13.27%
40-49		314	62	19.75%	383	60	15.67%	377	63	16.71%
50-59		249	51	20.48%	303	45	14.85%	377	55	14.59%
60-69		-	-	25.00%	-	-	12.73%	-	-	10.81%
70-79		-	.	.	-	-	18.18%	-	.	0.00%
80+		-	.	.	-	.	.	-	.	0.00%

* Counts for groups with less than 20 events suppressed

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