



Suicide in the Sunflower State

An Update from the Kansas Health Institute

August 24, 2023

Hello!

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Who We Are



- Nonprofit, nonpartisan educational organization based in Topeka.
- Established in 1995 with a multi-year grant by the Kansas Health Foundation.
- Committed to convening meaningful conversations around tough topics related to health.



Our Vision & Mission

Healthier Kansans through effective policy.

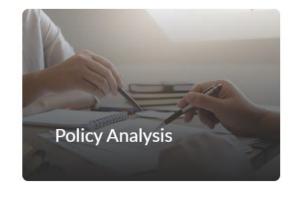
Improve the health of all Kansans through nonpartisan research, education and engagement that support effective policymaking.



Our Services





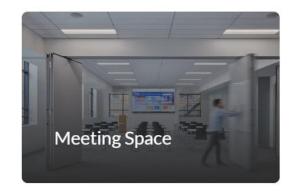












https://www.khi.org/services/



Background

Our Recent Work

- Suicide Among Adolescents and Youths in Kansas (2022)
- Youth and Young Adult Mental Health: Challenges & Opportunities in the Sunflower State (2022)
- Suicide in Rural and Frontier Kansas Virtual Event (2021)
- State Efforts to Prevent Suicide in Rural Communities (2021)
- Federal Efforts to Prevent Suicide in Rural Communities (2021)
- Urban-Rural Differences in Suicide Rates and Leading Means in Kansas (2021)
- Rising Stress-Related Deaths in Kansas (2018)
- Deaths by Suicide: Disparities in the Sunflower State (2018)

Upcoming

988 Suicide & Crisis Lifeline – Year 1 Impacts Hybrid Convening (<u>September 7, 2023</u>)



Agenda

National Perspective

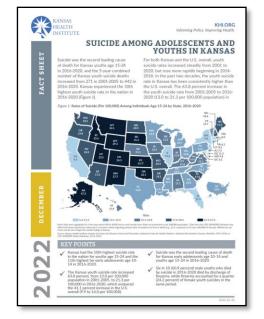
- Trend in Suicide Rates Since 2000
- Disparities in Suicide
- Provisional 2022 Data

Kansas Perspective

- Adolescent & Youth Suicide Rates
- Urban-Rural Suicide Rates





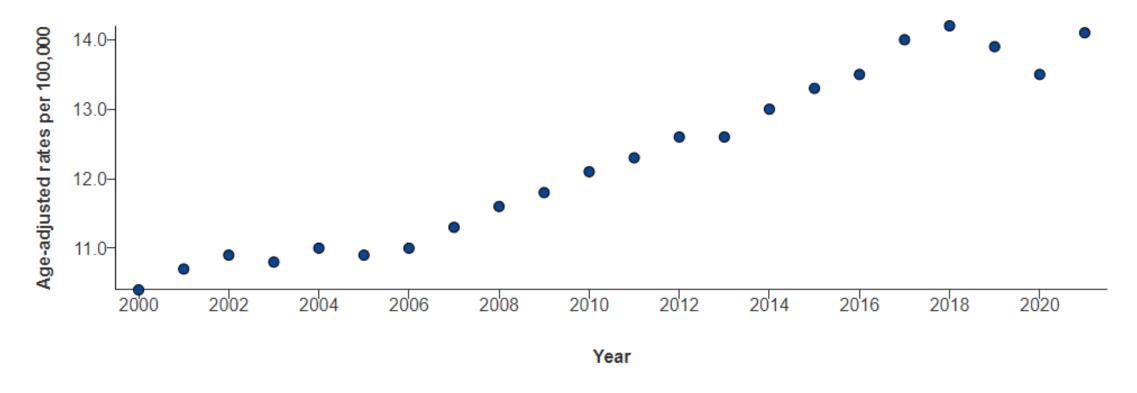


National Perspective



National Trend in Suicide Rates, 2000-2021

Suicide rates increased 37% between 2000-2018 and decreased 5% between 2018-2020. However, rates nearly returned to their peak in 2021.





National Suicide Findings, 2021

In 2021:

48,183 people died by suicide in the United States.

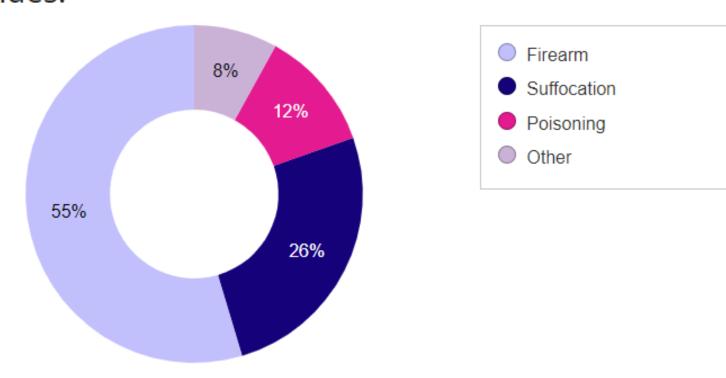
That is 1 death every 11 minutes.

- 12.3 million adults seriously thought about suicide
- 3.5 million adults made a plan
- 1.7 million adults attempted suicide



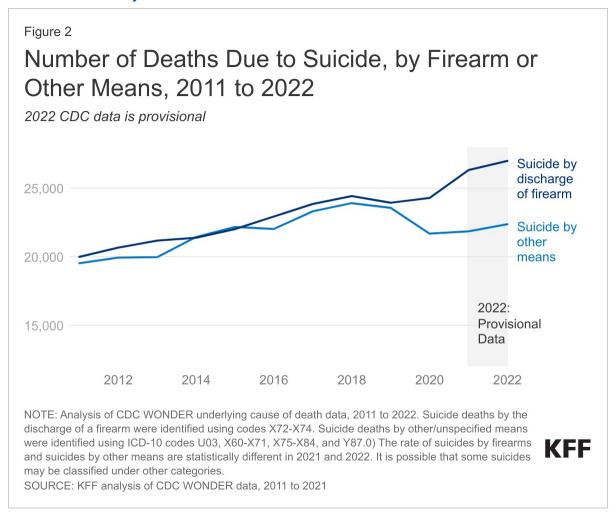
National Suicide Rates by Means, 2021

Firearms are the most common method used in suicides. Firearms are used in more than 50% of suicides.





National Suicide Rates, By Means, 2011-2022 (Provisional Data)



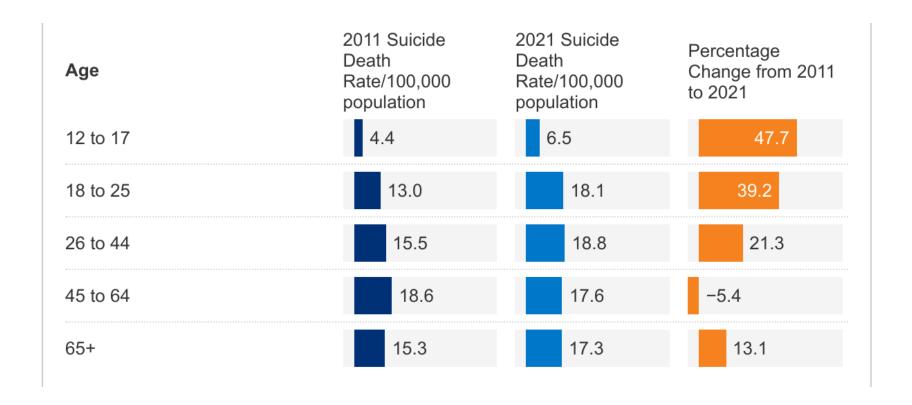


National Suicide Rates, by Race & Ethnicity, 2011-2021

Race/Ethnicity	2011 Suicide Death Rate/100,000 population	2021 Suicide Death Rate/100,000 population	Percentage Change from 2011 to 2021	
White	15.5	17.4	12.3	
Black	5.5	8.7	58.2	
Hispanic	5.7	7.9	38.6	
Asian or Pacific Islander	6.0	7.0	16.7	
American Indian or Alaska Native	16.5	28.1	70.3	

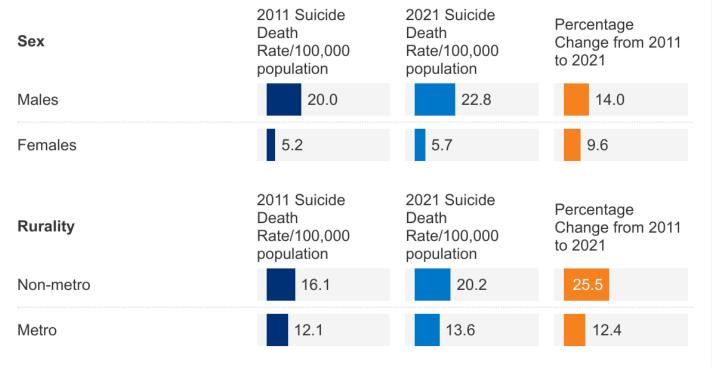


National Suicide Rates, by Age, 2011-2021





National Suicide Rates, by Sex and by Rurality, 2011-2021



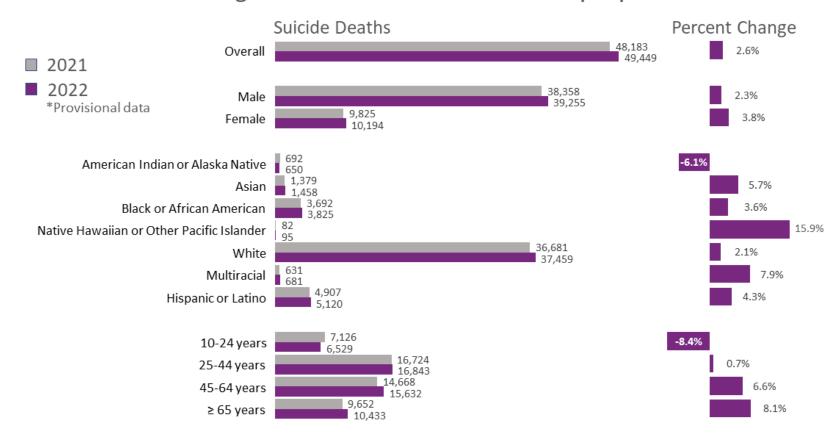
NOTE: Analysis of CDC WONDER underlying cause of death data, 2011 to 2021. Suicide deaths were identified using ICD-10 113 Cause List, Intentional self-harm (U03, X60-X84, Y87.0). Rates are ageadjusted for all demographics except age groups. Persons of Hispanic origin may be of any race but are categorized as Hispanic for this analysis; other groups are non-Hispanic. Data were insufficient to allow for analysis of other racial groups.

SOURCE: KFF analysis of CDC WONDER, 2011 to 2021



National Suicide Rates, by Population, 2021-2022 (Provisional Data)

Overall, the number of deaths by suicide increased 2.6% from 2021 to 2022*, but decreased among American Indian/Alaska Native people and Youth





Disparities in Suicide Rates







Veterans

Veterans have an adjusted suicide rate that is 57.3% greater than the non-veteran U.S. adult population.

Tribal Populations

Suicide is the 9th leading cause of death among Al/AN people.

Adults

Adults (35-64 years) account for almost half of all suicides in the U.S.







LGB Youth

High school students identifying as lesbian, gay, or bisexual attempt suicide at a rate five times higher than heterosexual students.

Certain Industries & Occupations

Suicide rates are highest among men working in certain industries (Mining, Quarrying, and Oil and Gas Extraction) and occupations (Construction and Extraction).

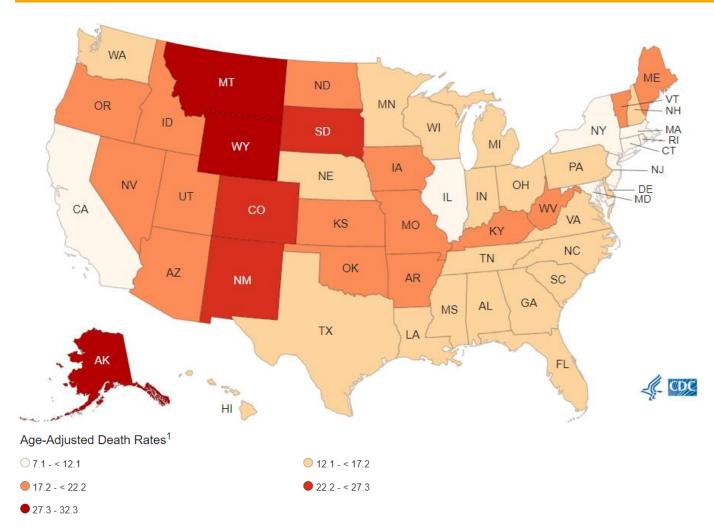
People with Disabilities

Adults with disabilities are three times more likely to report suicidal ideation compared to adults without disabilities.



Retrieved from: Facts About Suicide | Disparities in Suicide | Infographic | CDC

Suicide Rates by State, 2021



Ranks (Age-Adjusted rate per 100,000 population)

- 1. New Jersey (7.1)
- 20. Nebraska (15.0)
- 30. lowa (17.5)
- 32. Missouri (18.7)
- 33. Kansas (19.4)
- 40. Arkansas (20.6)
- 44. Oklahoma (22.1)
- 45. Colorado (22.8)
- 50. Wyoming (32.3)



Retrieved from: Facts About Suicide | Suicide Rates by State | CDC

Kansas Perspective



Urban-Rural Differences in Suicide Rates

Methods

- Kansas Information for Communities (KDHE) data from 2000-2019
- Age-adjusted to 2000 U.S. standard population
- Rate per 100,000
- 5-year average rates
- KDHE Peer Groups

KDHE KIC Link: http://kic.kdheks.gov/death_new.php



Informing Policy, Improving Health,

URBAN-RURAL DIFFERENCES IN SUICIDE RATES AND LEADING MEANS IN KANSAS

Suicide was the ninth leading cause of death in Kansas in 2019 and the 10th leading cause of death in the U.S., and the suicide rates have been increasing. In both Kansas and the U.S., discharge of firearms has been the leading means of suicide. The suicide rate in Kansas, 18.2 per 100,000 population (age-adjusted to the U.S. 2000 standard population), was the 16th highest in the country in 2019. Nationally, suicide rates ranged from 8.0 per 100,000 in New Jersey to 29.3 per 100,000 in Wyoming. While rising suicide rates across the nation have drawn attention, urban-rura differences also have been noticed. Rural areas have experienced a higher suicide. rate than urban areas, regardless of age, sex, race or ethnicity.

The majority (89 of 105) of counties in Kansas are considered rural by population density, including Frontier, Rural and Densely-Settled Rural counties, according to the peer county group classification used by the Kansas Department of Health and Environment. This issue brief highlights how suicide rates and the means of suicide have: changed over time and have varied across Kansas, with a close look at differences by rurality. A better understanding of urban-



rural differences in rates and means of solcide could help devise unique policies and programs to meet the needs of local communities.

Rising Suicide Rates in Kansas

Increase in Rural Counties Outpaces Non-Rural

Over the past 20 years, the rate of suicide across Kansas has steadily risen, from 12.5 per 100,000 population in 2000-2004 to 18.1 in 2015-2019 (Figure 1, page 2). This translates

√ The tuicide rate in Kansas was nearly 1.5 times. Nigher in 2015-2019 than in 2000-2004 (18.1 compared to 12.5 per 100,000), and in 2019 was the 16th highest in the country.

- in 2000, then picked up pace between 200
- While Kansas counties of all population Sensities saw an increase in suicide rates over the past 20 years, the increase in rontler and Rural countles outpaced that

in Demiely-Settled Rural, Seni-Lirban and Urban counties (\$4.7 and \$9.4 percent increases compared to 43.2, 40.3 and 45.4

- Since 2011-2015, the rate of suicide by discharge significantly higher than other county groups
- In 2015-2019, two-thirds (66.8 percent) of discharge of firearms (15.3 out of 22.9 per



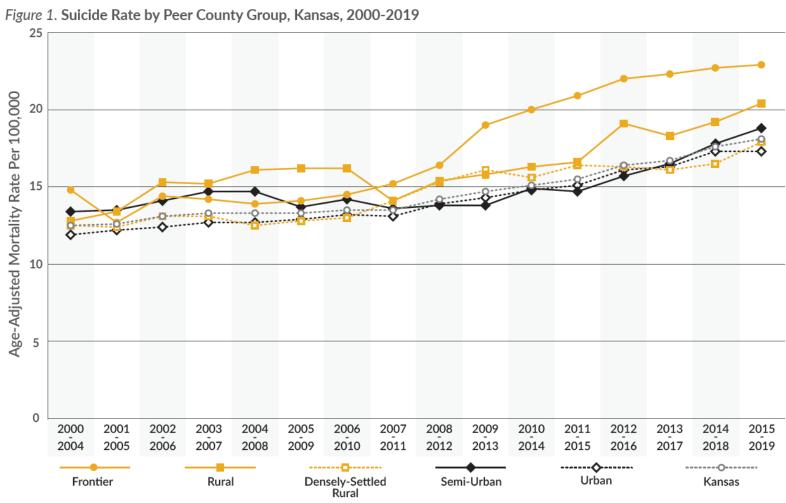
KDHE Peer Groups Map

Kansas Peer County Groups





Suicide Rates by Peer Group, 2000-2019



Note: Data were aggregated to five years due to small sample size. All rates are age-adjusted to the U.S. 2000 standard population. Source: KHI analysis of Kansas Information for Communities data, 2000-2019.



Suicide Rates by Peer Group, 2000-2019 (Firearms)

Figure 2. Rate of Suicide by Discharge of Firearms by Peer County Group, Kansas, 2000-2019 Age-Adjusted Mortality Rate Per 100,000 -----Semi-Urban Frontier Rural **Densely-Settled** Urban Kansas

Note: Data were aggregated to five years due to small sample size. All rates are age-adjusted to the U.S. 2000 standard population. Source: KHI analysis of Kansas Information for Communities data, 2000-2019.



Suicide Rates by Peer Group, 2015-2019

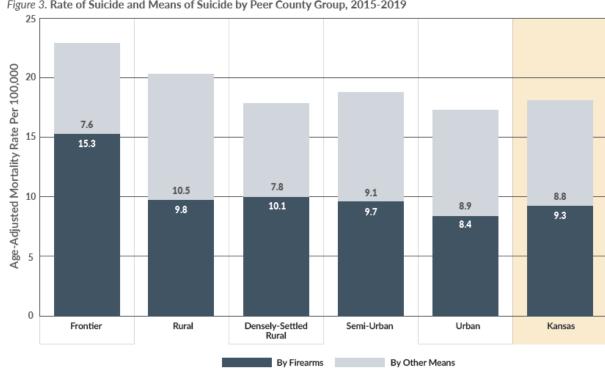


Figure 3. Rate of Suicide and Means of Suicide by Peer County Group, 2015-2019

Peer County Group	Frontier	Rural	Densely-Settled Rural	Semi-Urban	Urban	Kansas
Number of Suicides	122	229	407	419	1,432	2,609
Suicide Per 100,000	22.9*	20.4	17.9	18.8	17.3	18.1
By Other Means	7.6**	10.5	7.8	9.1	8.9	8.8
By Firearms	15.3***	9.8	10.1	9.7	8.4	9.3

Note: Data were aggregated to five years due to small sample size. All rates are age-adjusted to the U.S. 2000 standard population. Statistically significant differences (p-value < 0.05) were found between Frontier and Urban counties (*), between suicide by firearms and by other means for Frontier counties (**) and between Frontier and other county groups (***).

Source: KHI analysis of Kansas Information for Communities data, 2015-2019.



Suicide Rates Among Kansas Youth

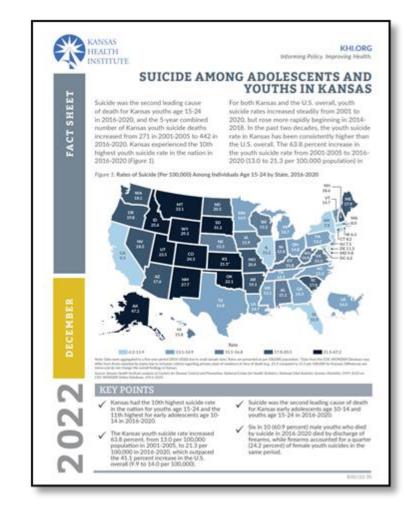
Methods

- Trend in suicide rates and means
- Data from KDHE Vital Statistics and KIC & CDC WONDER
- 20 Years from 2001-2020
- Data aggregated to five-year periods

We recognize Lauren Gracy, Epidemiologist, KDHE, for her contributions.

KDHE KIC Link: http://kic.kdheks.gov/death_new.php

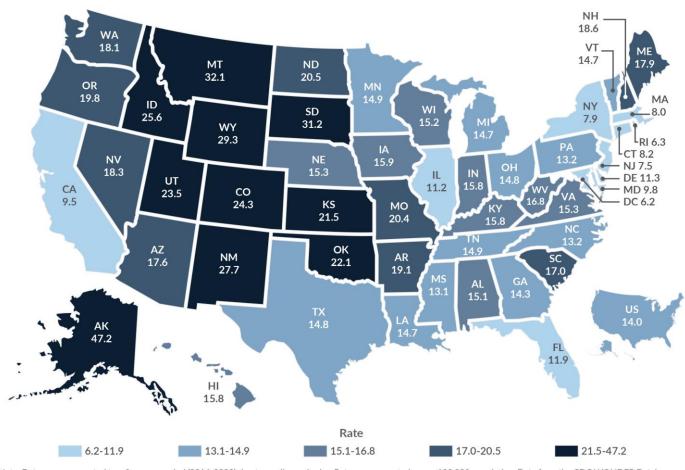
CDC WONDER Link: https://wonder.cdc.gov/





State Rates of Suicide – Youth 15-24

Rates of Suicide (Per 100,000) Among Individuals Age 15-24 by State, 2016-2020



Note: Data were aggregated to a five-year period (2016-2020) due to small sample size. Rates are presented as per 100,000 population. Data from the CDC WONDER Database may differ from those reported by states due to inclusion criteria regarding primary state of residence at time of death. Differences are minor and do not change the overall findings in Kansas. Source: Kansas Health Institute analysis of Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Mortality 1999-2020 on CDC WONDER Online Database, 2016-2020.



Suicide Rate Trend – Youth 15-24

Rates of Suicide (Per 100,000) Among Youth Age 15-24 in Kansas and the U.S., 2001-2020



Note: Data were aggregated to five-year periods (e.g., 2016-2020) due to small sample size.

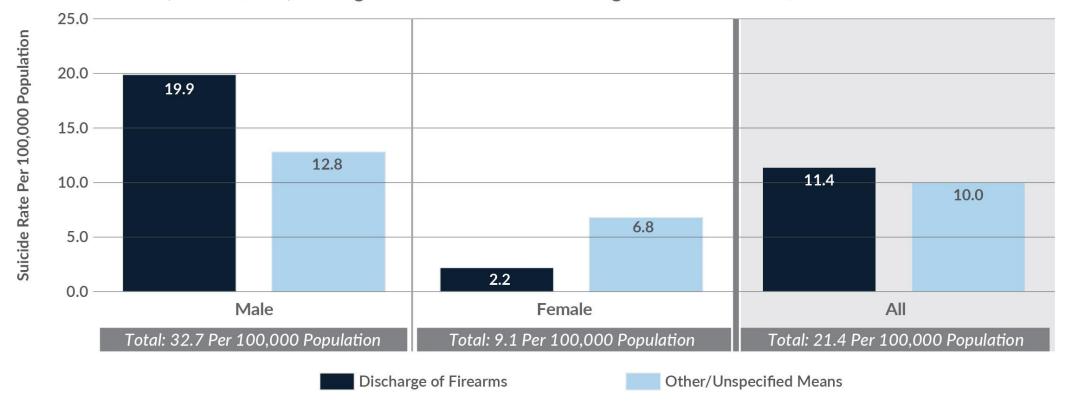
Source: Kansas Health Institute analysis of Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Mortality 1999-2020 on CDC WONDER Online Database, 2001-2020, and Kansas Department of Health and Environment, Office of Vital Statistics, Death Database, 2001-2020.

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Means of Suicide in Kansas – Youth 15-24

Rates of Suicide (Per 100,000) Among Male and Female Youth Age 15-24 in Kansas, 2016-2020



Note: Data were aggregated to five-year periods (e.g., 2016-2020) due to small sample size.

Source: Kansas Health Institute analysis of Kansas Department of Health and Environment, Office of Vital Statistics, Death Database, 2001-2020.



THANK YOU!

Any Questions?





988 SUICIDE & CRISIS LIFELINE

If you or someone you know needs support now, call or text 988 or chat 988lifeline.org



Connect With Us



www.khi.org









