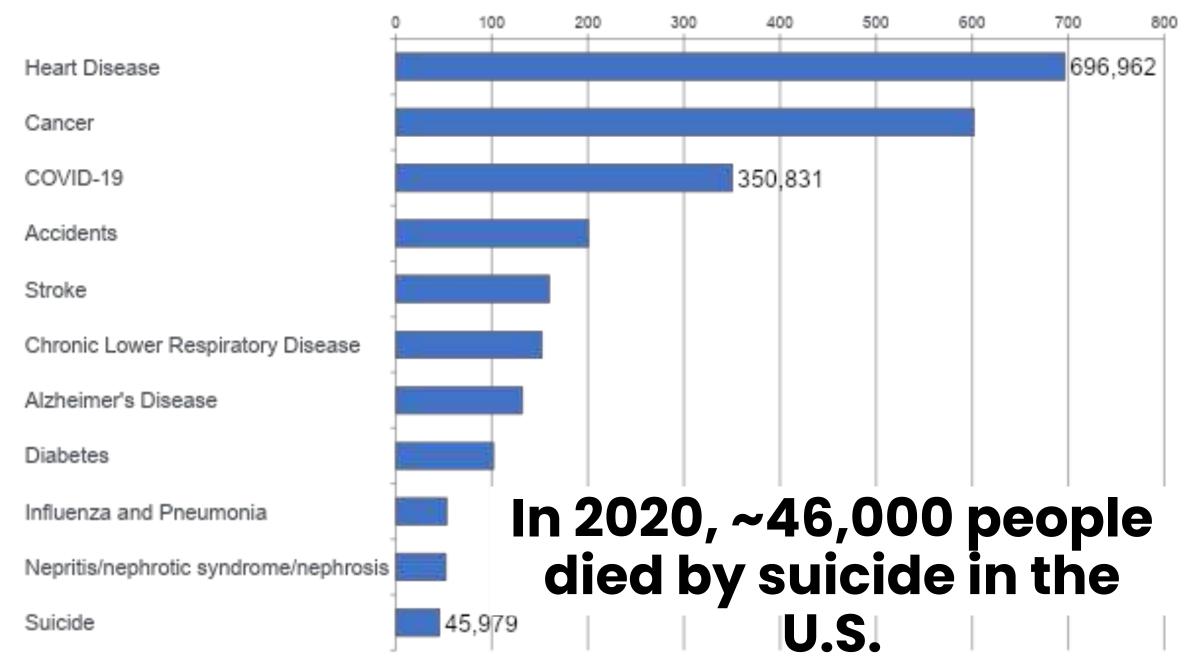


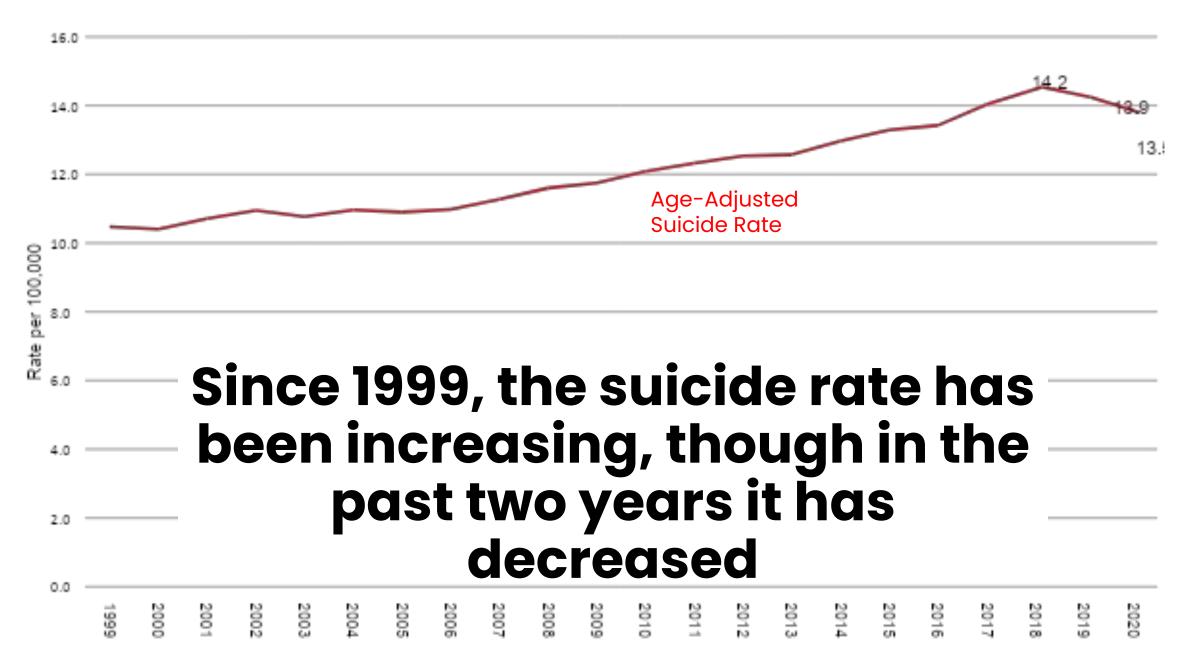
Suicide in Lesbian, Gay & Bisexual Adults:

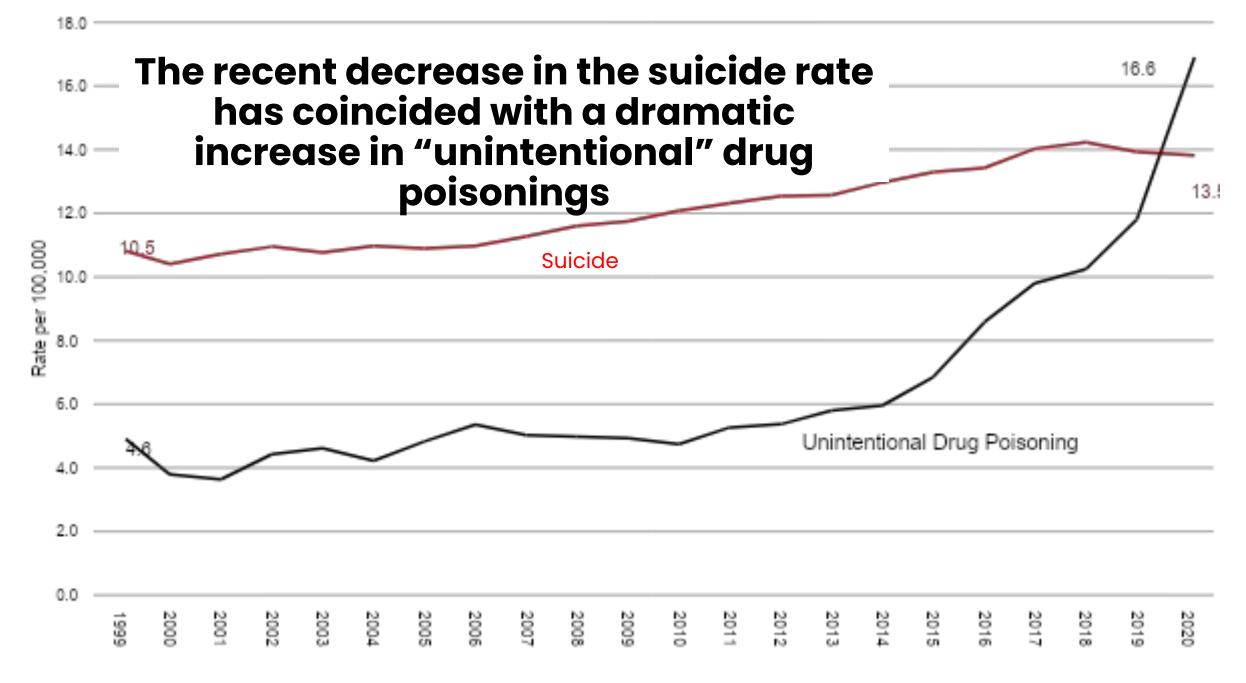
Epidemiologic Trends & Strategies for Prevention

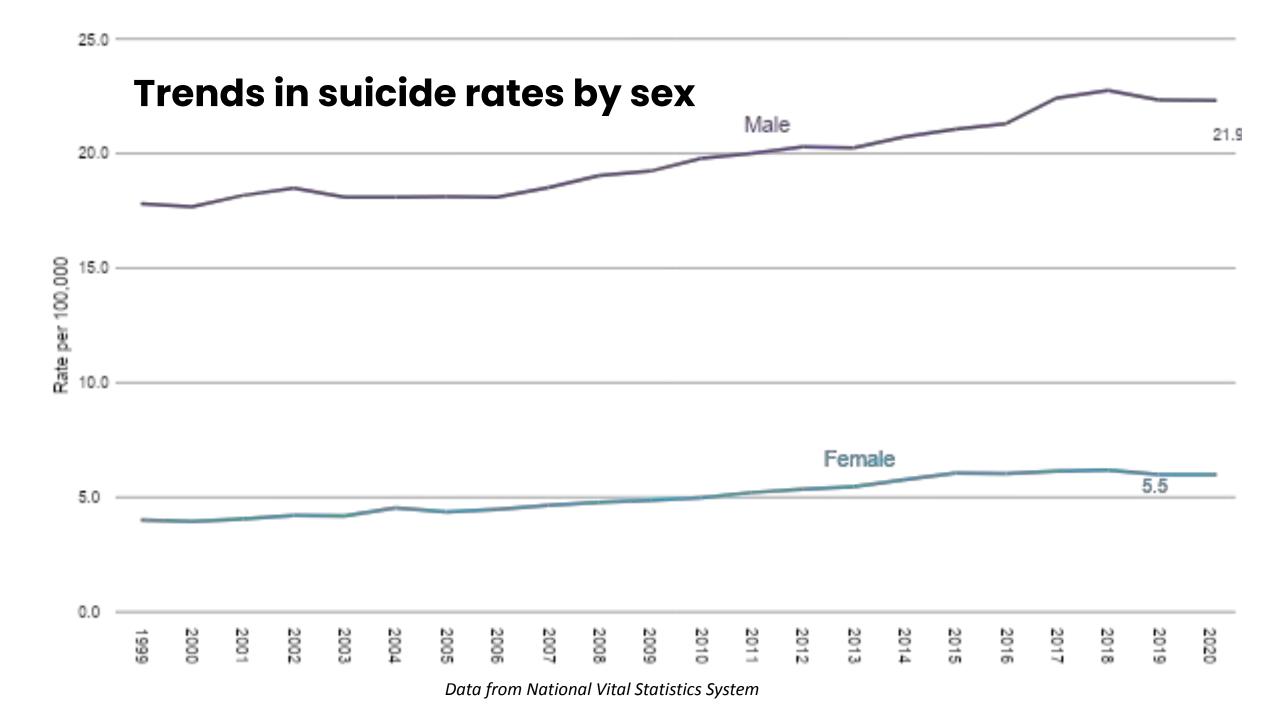
Rajeev Ramchand, Ph.D.

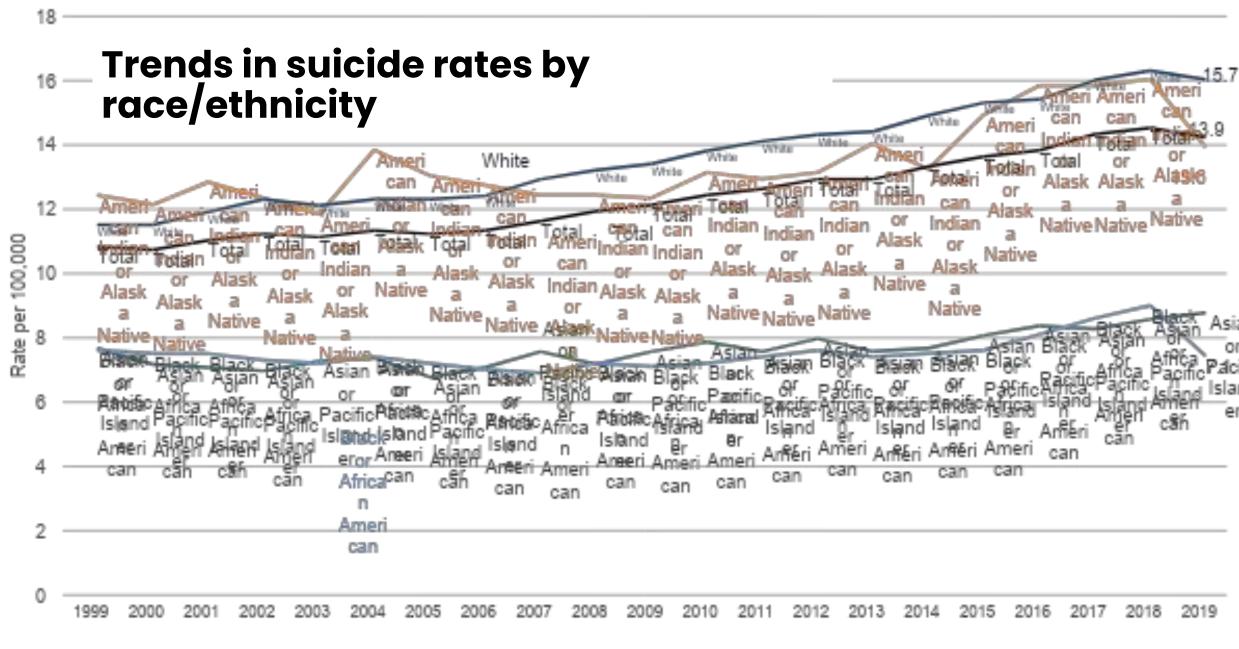
June 13, 2023











Rate per 100,00

Trends in suicide rates by sexual orientation



Trends in suicide rates by gender identity



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In most death investigation jurisdictions across the United States, sexual orientation and gender identity are not included in death certificates

Exceptions include: Los Angeles County (2019) California pilot (2021; AB1094)

Researchers have used novel techniques to examine suicide mortality risk among LGBTQ+ populations

Linked Survey Data

- Sample: Nationally representative sample of adults who reported at least one same-sex sexual partner between 1988 and 2002
- No evidence of differing rate among MSM and MSWO
- WSW had higher suicide rate than WSMO

Diagnostic Codes

- **Sample:** VA patients with one of four ICD-9 codes (Gender Identity Disorder (x2), transsexualism; and transvestic fetishism) between 2000 and 2009
- **Suicide rate:** 82 per 100,000

Blosnich et al., 2014

Natural Language Processing

- Sample: VA patients with documentation of sexual orientation in clinical notes from 1999-2017
- Suicide rate: 82.5 per 100,000 (v. 37.7 per 100,000)

Lynch et al., 2014

Having serious thoughts about ending Ideatio one's life by suicide n Having made a plan to end one's own Plan life Attem Having tried to end one's own life pt Died by suicide Death (self-inflicted injury with intent to die)

Other

constructs

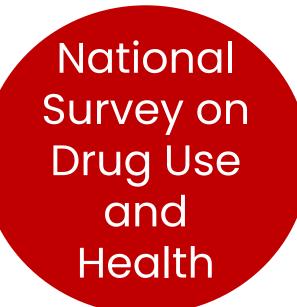
are important

markers of

distress and

suicidal

behaviors



Annual survey representative of the civilian, non-institutionalized U.S. population

~57,000 respondents annually

Since 2015, asks questions of those 18 and older about sexual orientation:

Which one of the following do you consider yourself to be?

- Heterosexual, that is, straight,
- Lesbian or gay
- Bisexual
- Don't know.

Asks those 18 and older about suicide ideation, plans and attempts

- Ideation: At any time in the past 12 months, that is from [DATEFILL] up to and including today, did you seriously think about trying to kill yourself?
- Plans: During the past 12 months, did you make any plans to kill yourself?
- Attempts: During the past 12 months, did you try to kill yourself?

NSDUH Sample Characteristics: Current Study

Total Sample Size: 191,954 (2015-2019, pooled) Identify as LGB: 14,693

Male Female

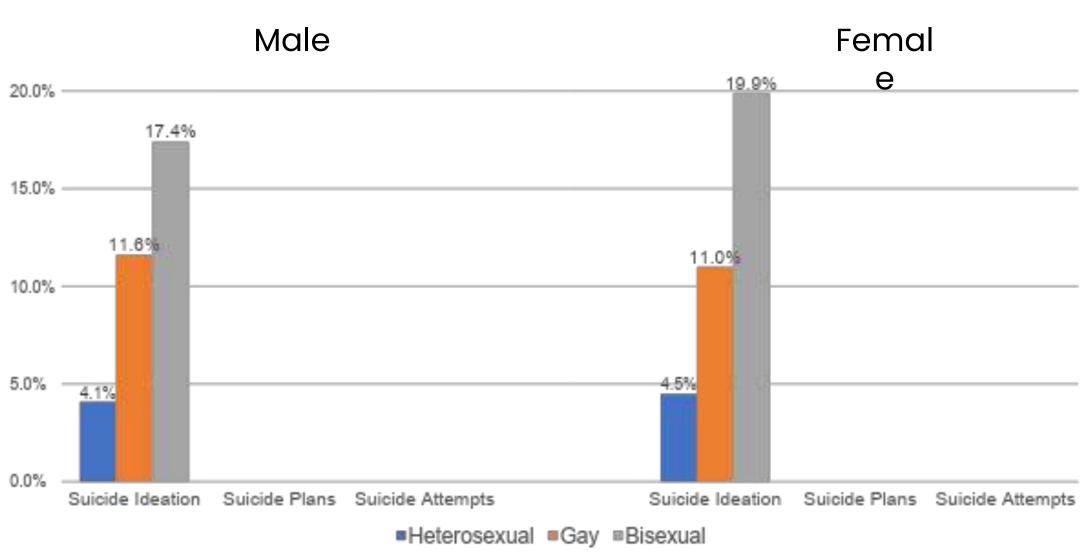
	Heterosexua I	Gay	Bisexual
18-25	93.4%	2.9%	3.7%
26-34	94.4%	3.1%	2.5%
35-64	96.5%	2.2%	1.4%

	Heterosexual	Lesbian	Bisexual
18-25	84.3%	2.6%	13.1%
26-34	89.6%	2.3%	8.1%
35-64	96.1%	1.5%	2.4%

	Heterosexua I	Gay	Bisexual
White, NH	95.6%	2.4%	2.0%
Black, NH	95.8%	2.5%	1.7%
Other, NH	95.4%	2.3%	2.3%
Hispanic	94.8%	2.8%	2.3%

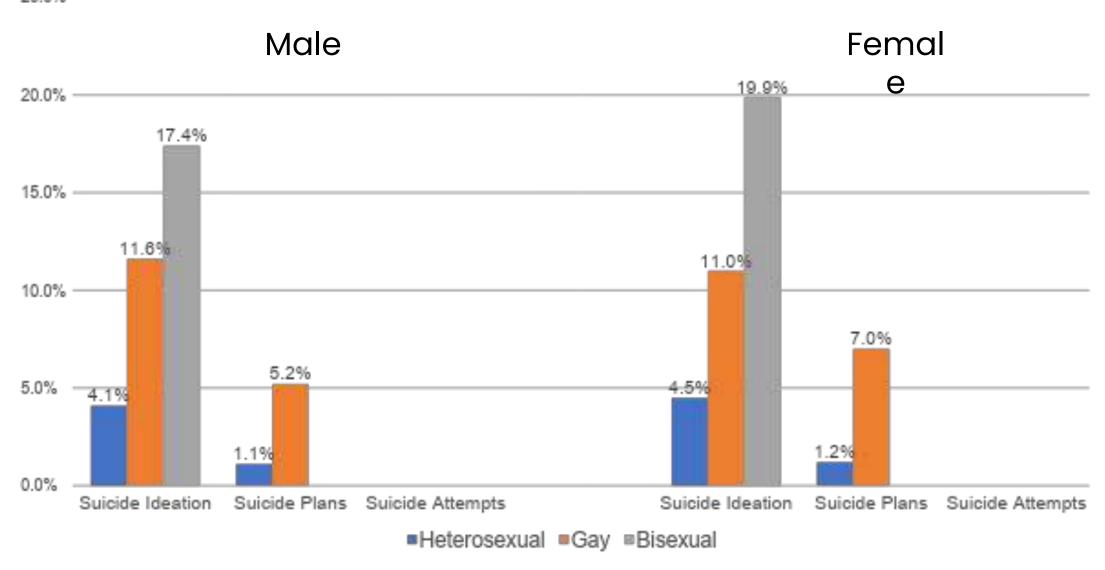
	Heterosexual	Lesbian	Bisexual
White, NH	92.8%	1.9%	5.3%
Black, NH	92.0%	2.4%	5.6%
Other, NH	93.0%	1.4%	5.7%
Hispanic	93.2%	1.7%	5.1%





Estimates provided are adjusted marginal means (average prevalence estimates after adjustment for sociodemographic covariates)

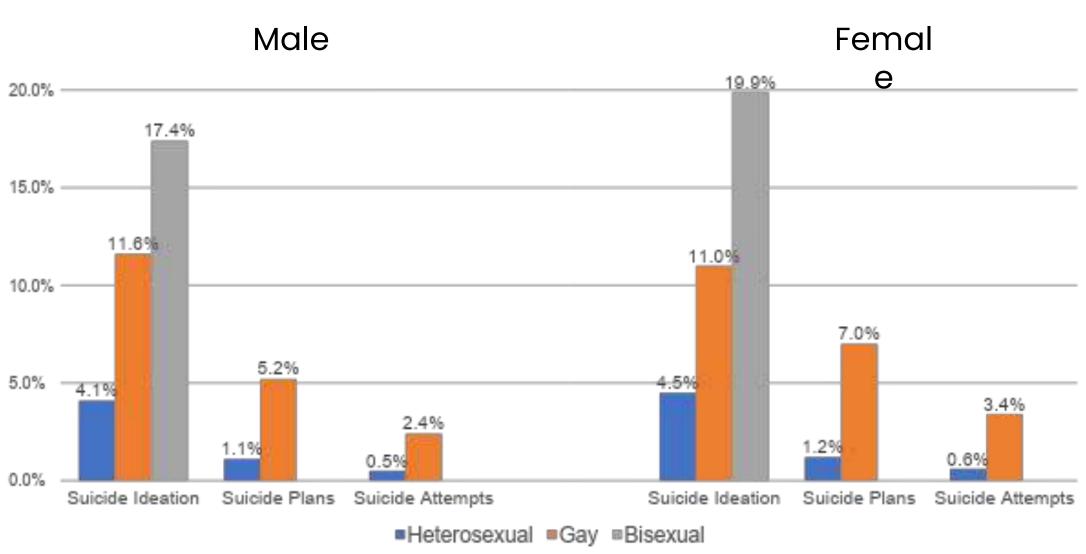
For suicide plans, Gay/Lesbian also includes those who identify as bisexual



Estimates provided are adjusted marginal means (average prevalence estimates after adjustment for sociodemographic covariates)

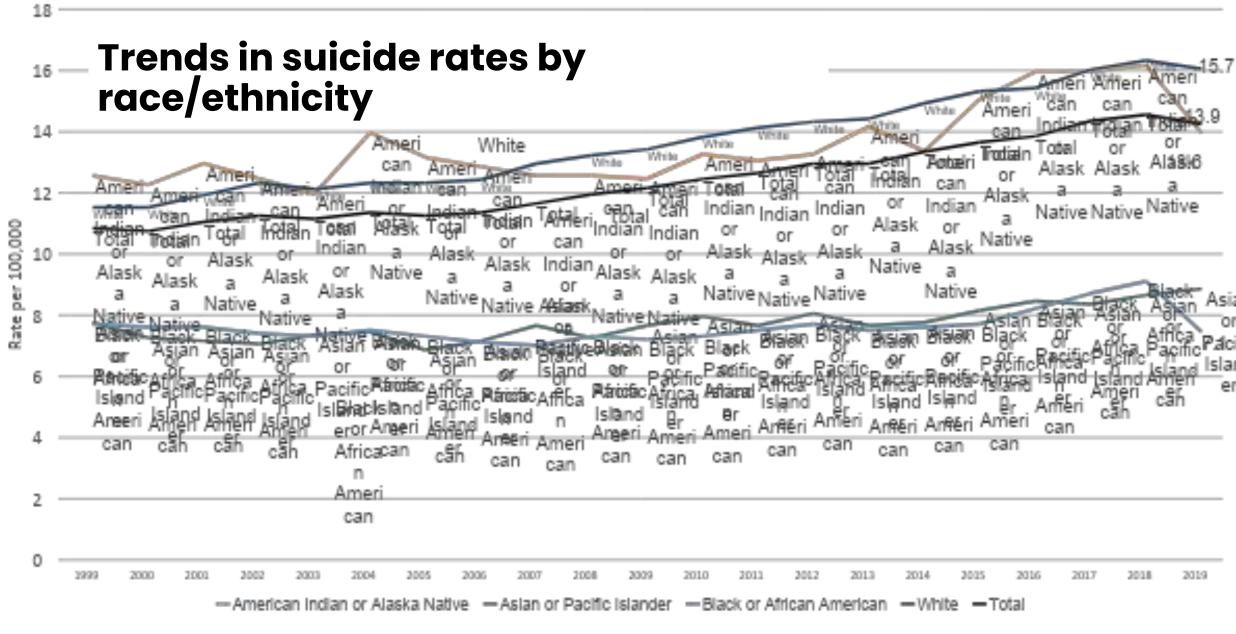
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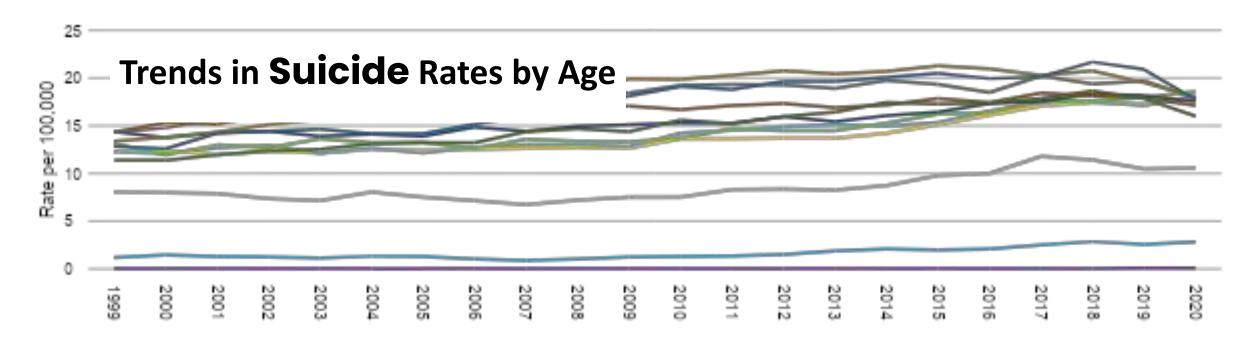




Estimates provided are adjusted marginal means (average prevalence estimates after adjustment for sociodemographic covariates)

For suicide plans, Gay/Lesbian also includes those who identify as bisexual



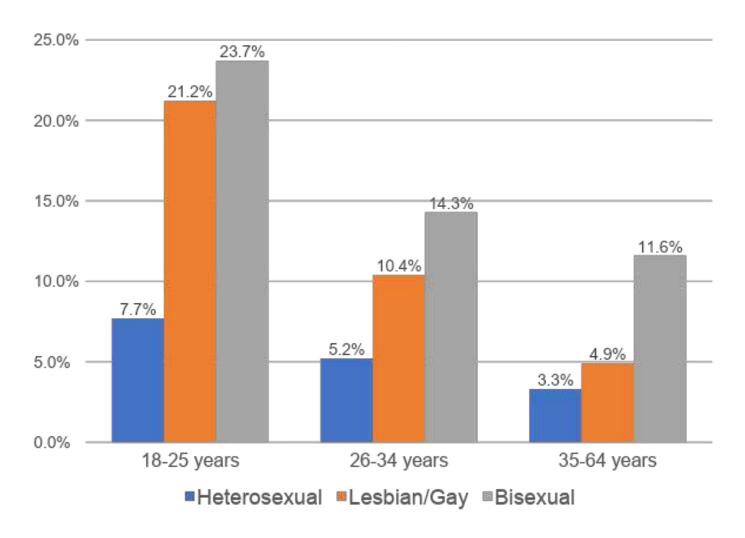


- -5 to 9
- -10 to 14
- -15 10 19
- -20 to 24
- -25 to 29
- -30 to 34
- -35 to 39
- -40 to 44
- -45 to 49
- -50 to 54

Is prevalence of suicide thoughts, plans and attempts different between...

- 1. Lesbian/gay/bisexual adults across age groups?
- 2. Lesbian/gay/bisexual adults across race/ethnicity groups?
- 3. Age groups among lesbian/gay/bisexual adults?
- 4. Race/ethnicity groups among lesbian/gay/bisexual adults?

Past Year Suicide Thoughts, Females



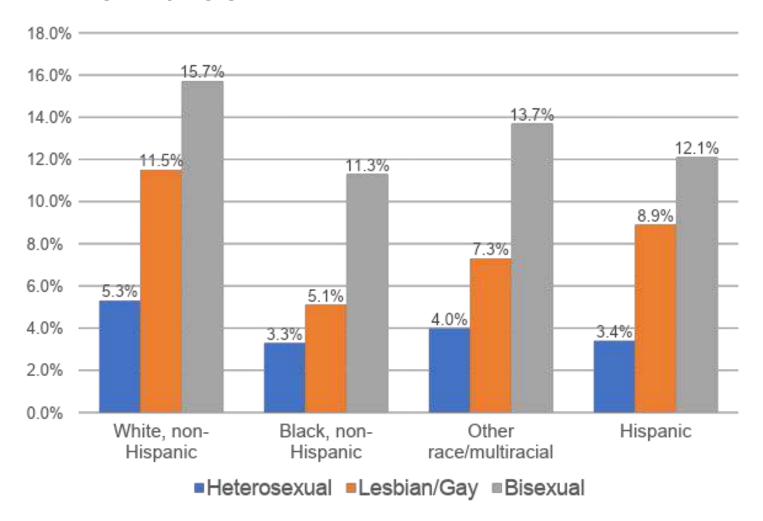
Across all age groups, bisexual women have higher rates of suicidal thoughts than heterosexual women

In the younger two age groups, gay/lesbian women have higher rates of suicidal thoughts than heterosexual women

In the older age groups, bisexual women have higher rates of suicidal thoughts than gay/lesbian women

In all sexual identity groups, younger women have highest rates of suicidal thoughts

Past Year Suicide Thoughts, Females



Across all age groups, bisexual women have higher rates of suicidal thoughts than heterosexual women

Among White and Hispanic adults, gay/lesbian women have higher rates of suicidal thoughts than heterosexual women

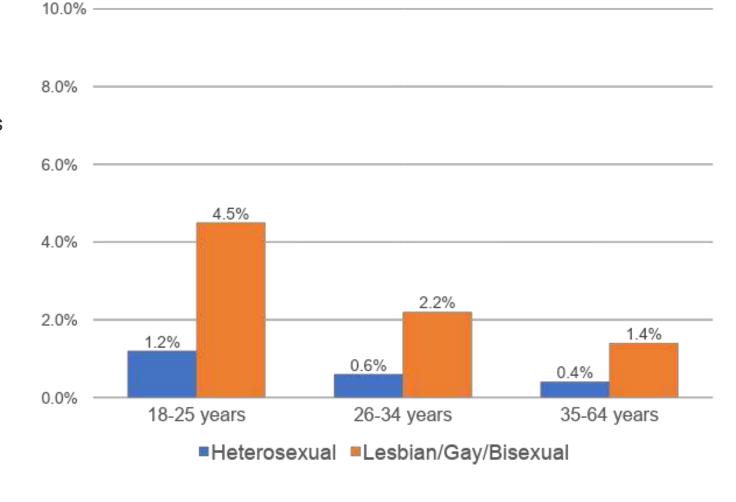
Among White and Black adults, bisexual women have higher rates of suicidal thoughts than gay/lesbian women

Among lesbian/gay, and bisexual women, Black women have lower rates of suicidal thoughts

Past Year Suicide Attempts, Females

Across all age groups, lesbian/gay/bisexual women have higher rates of past suicide attempts

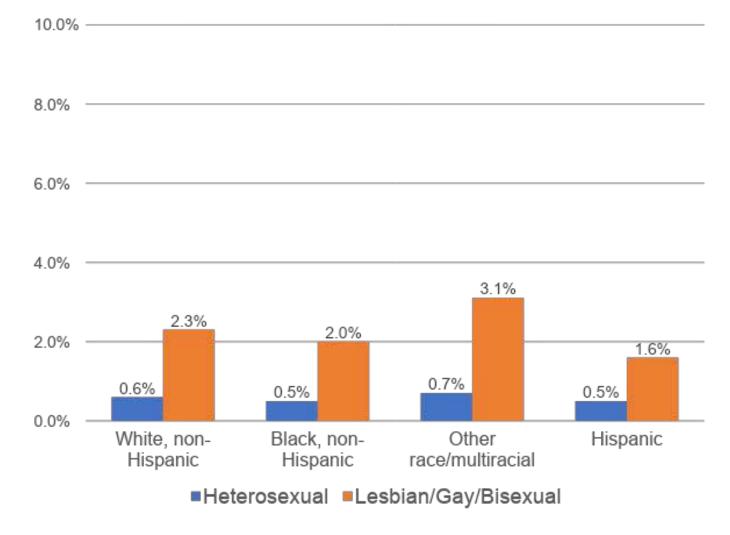
In both sexual identity groups, younger women have highest rates of suicidal thoughts



Past Year Suicide Attempts, Females

Across all race/ethnicity groups, lesbian/gay/bisexual women have higher rates of past suicide attempts

There are no differences by race/ethnicity in rates of past year suicide attempts among heterosexual or gay/lesbian/bisexual women



Results for men: Summa ry

Bisexual men have higher rates of suicidal thoughts than heterosexual men across all age and race/ethnicity groups

Gay men have higher rates of suicidal thoughts than heterosexual men across all age groups and all race/ethnicity groups EXCEPT mixed race

No differences in suicidal thoughts between bisexual and gay men

Suicidal thoughts are generally higher among younger gay and bisexual men and White gay and bisexual men

Gay men have higher rates of suicide attempts in all age groups EXCEPT 26-34 and in all race/ethnicity groups EXCEPT mixed race

Suicide attempts are higher among younger gay/bisexual men

Key Implications

Mostly consistent results of elevated suicidal behaviors among LGB adults



Minority Stress theory

Stigma, prejudice, and discrimination experienced by LGB individuals may exacerbate the risk for mental health problems, thereby increasing suicide risk

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Intersectional theory

Discrimination may manifest in complex ways for those with multiple marginalized identities

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Intersectional theory

Discrimination may manifest in complex ways for those with multiple marginalized identities

In some instances, elevated rates of suicide thoughts among adults who identify as bisexual



Cultural invisibility of bisexual people may result in unique stressors and a lack of bisexual-specific resources

Biphobia:

negative stereotypes about bisexual people



Nine Broad Categories of Suicide Prevention



Training on coping skills and self-referral



Screenin g program s



Mental health interventions



Marketing campaign s



Crisis hotlines



Social/polic y intervention s



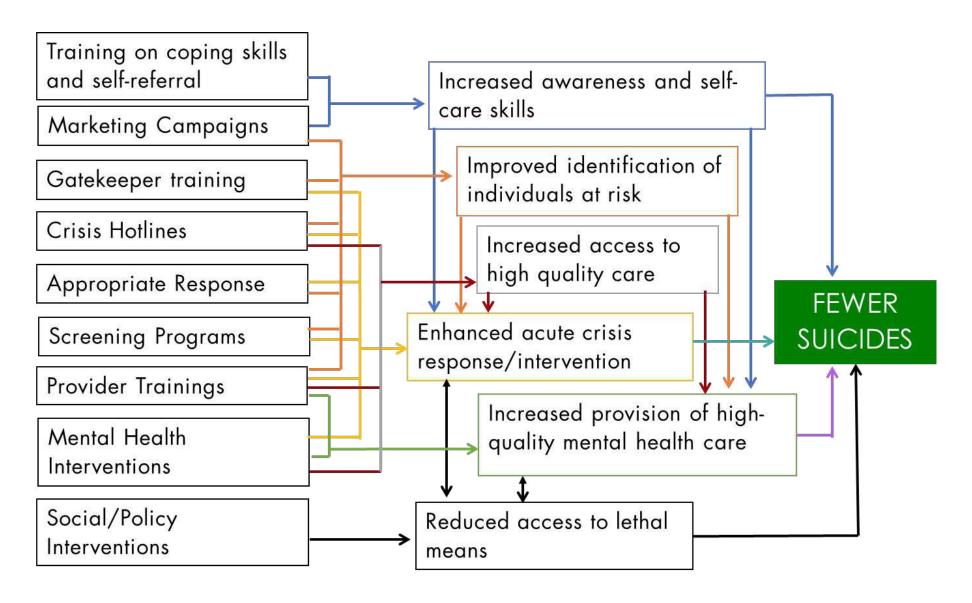
Gatekeeper training



Provider training



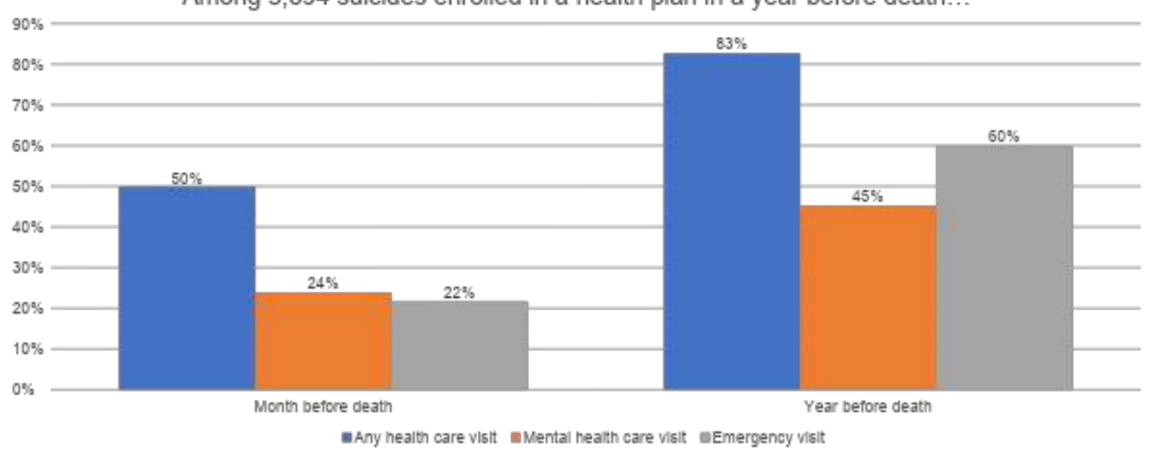
Appropriat e response



From: Acosta J, Ramchand R, Jaycox L, Becker A, Eberhart N. 2012. *Interventions to Prevent Suicide: A Literature Review to Guide Evaluation of California's Mental Health Prevention and Early Intervention Initiative* (TR-1317). Santa Monica, CA: RAND.

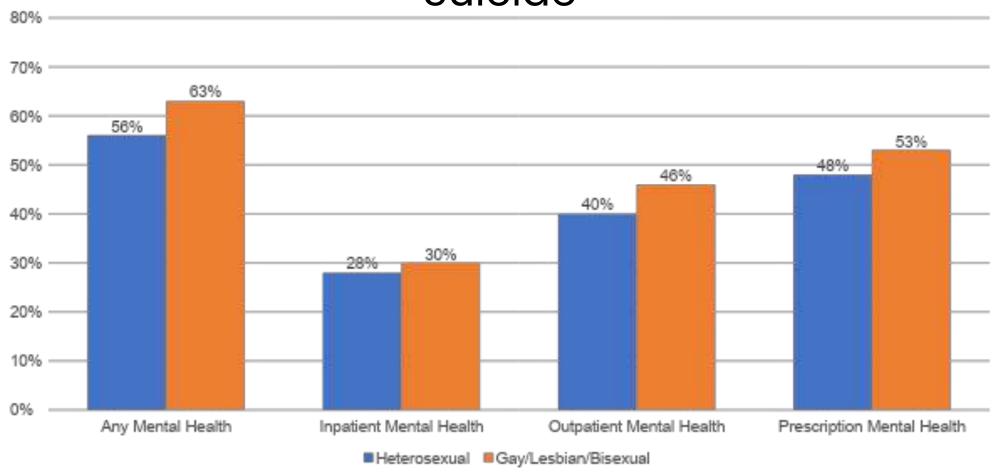
Health care settings provide opportunities to identify and mitigate suicide risk

Among 5,894 suicides enrolled in a health plan in a year before death...



From: Ahmedani, B. K., Simon, G. E., Stewart, C., Beck, A., Waitzfelder, B. E., Rossom, R., . . . Solberg, L. I. (2014). Health care contacts in the year before suicide death. *J Gen Intern Med, 29*(6), 870-877.

Past Year Receipt of Mental Health Services Among Those Who Reported Attempting Suicide



From: Ramchand et al. (2022). Mental Health Service Use Among Lesbian, Gay, and Bisexual Adults Who Report Having Made a Suicide Attempt. Psychiatric Services, forthcoming.

Evidence-Supported Mental Health Strategies



Screening for suicide risk



Cognitive behavioral therapy



Dialectical behavioral therapy



Safety Planning



Caring contacts



Screening for suicide risk

- There is no evidence for iatrogenic risk of asking people questions about suicide (i.e., worry about "putting ideas into their heads.")
- Screening positive for suicide risk helps identify persons at risk for future suicide or other serious mental health concerns
- Screening can be done by non-mental health clinicians



- ASQ is a validated suicide screening tool with versions for youth and adults in various clinical settings (outpatient, clinics, emergency departments, etc.
- More information at: https://www.nimh.nih.gov/rese arch/research-conducted-atnimh/asq-toolkit-materials



Cognitive behavioral therapy



Dialectical behavioral therapy

What is Cognitive Behavioral Therapy (CBT)?

- One of the best tested, proven therapies for anxiety and depression (and other problems including suicidal thoughts and behaviors)
- •Generally short-term (e.g., 8-16 weekly sessions)
- Collaborative
- Symptom-focused
- Therapist usually acts like a coach, assigns homework
- Therapist needs training to deliver CBT
- Face-to-face (but not e-health) CBT effective in reducing suicidal thoughts and behaviors

Leavey, K., & Hawkins, R. (2017). Is cognitive behavioural therapy effective in reducing suicidal ideation and behaviour when delivered face-to-face or via e-health? A systematic review and meta-analysis. *Cognitive behaviour therapy*, 46(5), 353-374.

What is Dialectical Behavioral Therapy (DBT)?

- Originally designed to treat chronic suicidal thoughts and borderline personality disorder, but tailored for many other conditions
- Effective for reducing suicidal behavior
- Targets emotion regulation, interpersonal effectiveness, distress tolerance
- Integrates CBT and mindfulness/acceptance-based skills
- Typically, one year of weekly treatment
- Key components:
 - Group therapy
 - Individual therapy

DeCou, C. R., Corhigan, C. Quick in Color in Col



Safety Planning is an evidence-based approach in which clinicians work with clients to identify strategies to cope with suicidal thoughts and reduce the risk of suicide.

Six components of safety planning

- 1. Recognizing individual warning signs
- 2. Identifying and employing internal coping strategies
- 3. Using social supports as distractions
- 4. Contacting trusted family or friends to help
- 5. Contacting specific mental health services
- 6. Reducing access to/use of lethal means

From: Stanley, B., & Brown, G. K. (2012). Safety planning intervention: A brief intervention to mitigate suicide risk. Cognitive Behavioural Practice, 19(2), 256–264.

Safety Planning "differs significantly from the widely considered ineffective 'no-suicide contract." Ferguson et al., 2021.



Safety Planning: The evidence

Across 26 studies, evidence supported improvements in:

- Suicidality (ideation, behavior, death)
- Depression, hopelessness
- Hospitalization, treatment engagement

From: Ferguson, M et al. (2021). The Effectiveness of the Safety Planning Intervention for Adults Experiencing Suicide-Related Distress: A Systematic Review," Archives of Suicide Research, 1–24



Caring contacts

- Asynchronous, nonintrusive, low cost
- Targets patients recently discharged from psychiatric crisis care settings
- Send personalized text-based messages expressing interest and concern for the patient's wellbeing without any demand for a response
- Can be sent via text message or snail mail (e.g., postcards)
- Approximately 8 contacts over one year
- A review of 13 RCTs suggested an overall protective effect for suicide attempts one-year post-randomization











Suicide is preventable

to face increased suicide risk, but risk varies

Health care professional s can help prevent suicide

Evidence-su pported strategies exist, and new evidence is emerging

Rajeev Ramchand ramchand@rand.org @RRamchand

