

Reclaiming Community: How to Heal Ourselves and #EndTB

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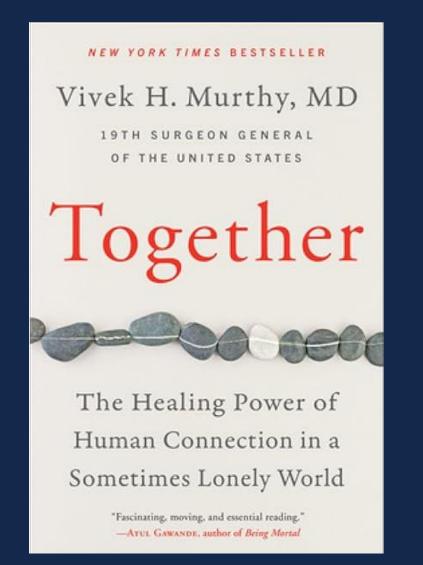
Keeping the Heart of Virginia Healthy





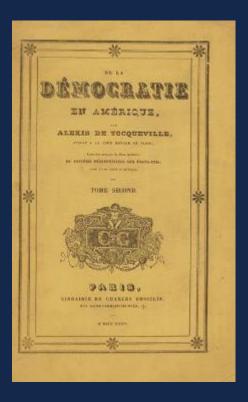
Healing and Human Connection

"...[loneliness] serves a vital function by warning us when something essential for our survival - social connection - is lacking." --Dr. Vivek Murthy

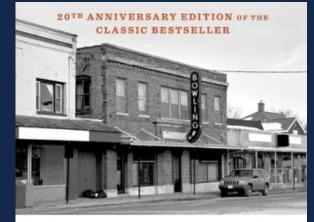


Growing Disconnection

2024 American Social Capital Survey



- Decline in civic engagement and fewer connections particularly in those with fewer years of formal education
- No longer society of "joiners". Noted declines in membership with organized institutions--particularly marriage, religious organizations, and labor unions.
- Increasing division of social and civic resources.

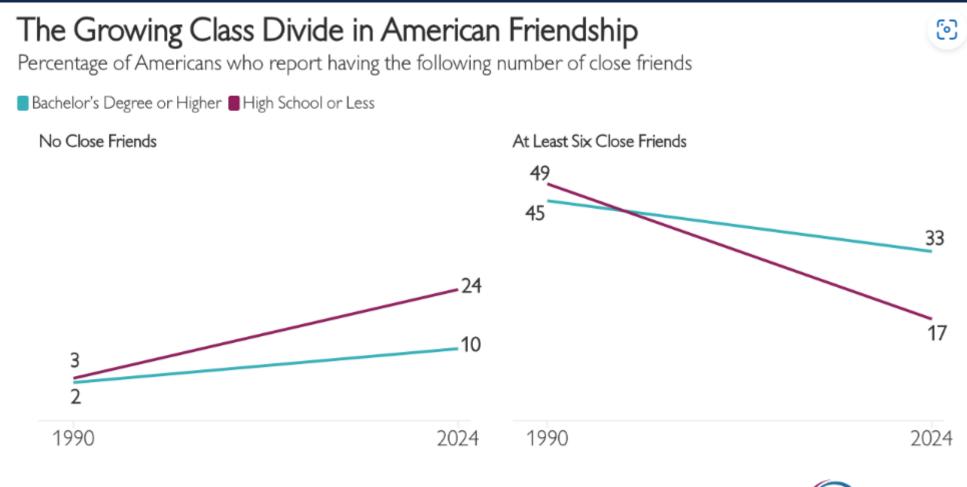


BOWLING ALONE

The Collapse and Revival of American Community

ROBERT D. PUTNAM With a New Preface and Afterword by the Author

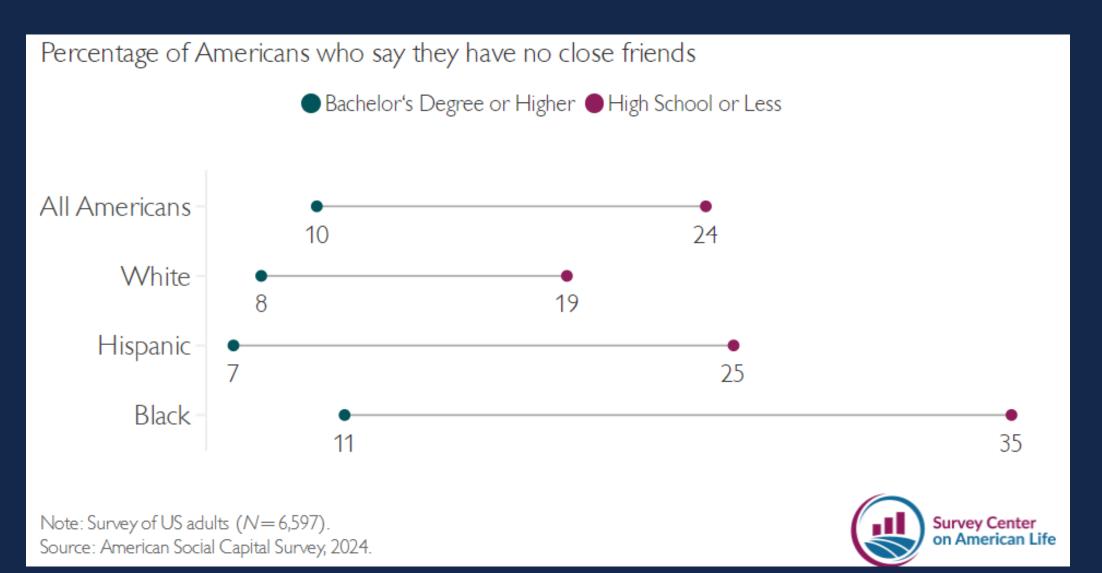




Note: Survey of US adults (N= 6,597). Gallup survey conducted over the telephone. Source: Gallup News Service Poll, 1990; American Social Capital Survey, 2024.

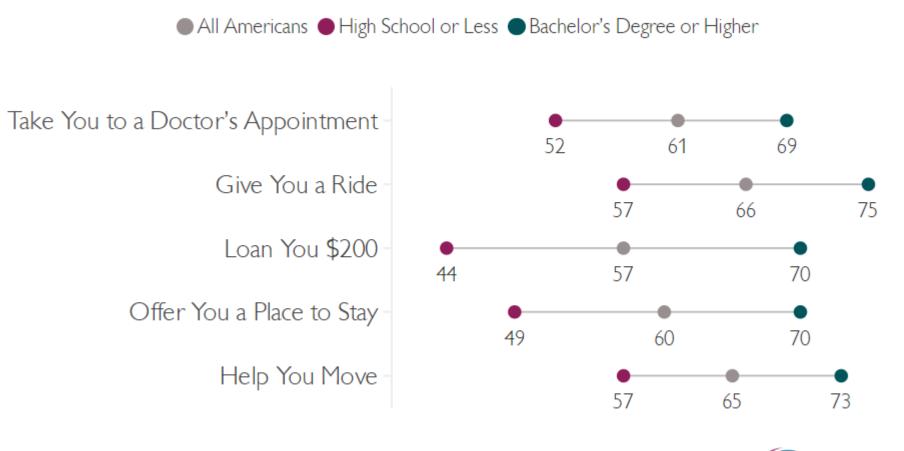








Percentage of Americans who report having multiple people who would be willing and able to . . .



Note: Survey of US adults (N=6,597). Source: American Social Capital Survey, 2024.



Insufficient social connection

- 29% increased risk of heart disease
- 32% increased risk of stroke
- 50% increased risk of developing dementia for older adults
- 60% increased risk of premature death
- Loneliness and social isolation in childhood increase the risk of depression and anxiety both immediately and well into the future

<u>Social Relationships and Mortality Risk: A Meta-analytic Review</u> Holt-Lunstad J, Smith TB, Layton JB (2010) Social Relationships and Mortality Risk: A Meta-analytic Review. PLOS Medicine 7(7): e1000316. <u>https://doi.org/10.1371/journal.pmed.1000316</u>

Our Epidemic of Loneliness and Isolation



2023

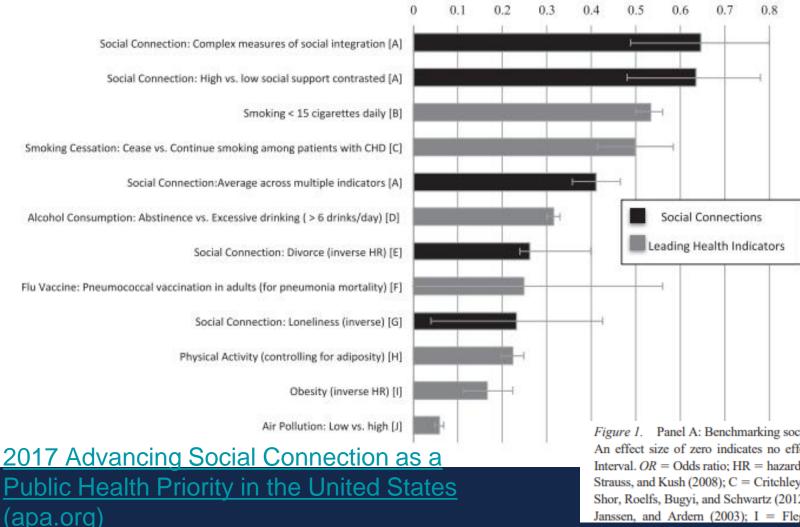
The U.S. Surgeon General's Advisory on the Healing Effects of Social Connection and Community





HOLT-LUNSTAD, ROBLES, AND SBARRA

A Comparison of Decreased Mortality across Social Connection and Leading Health Indicators



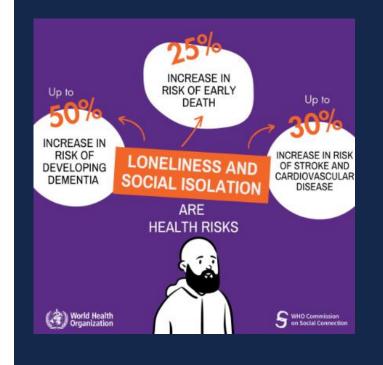
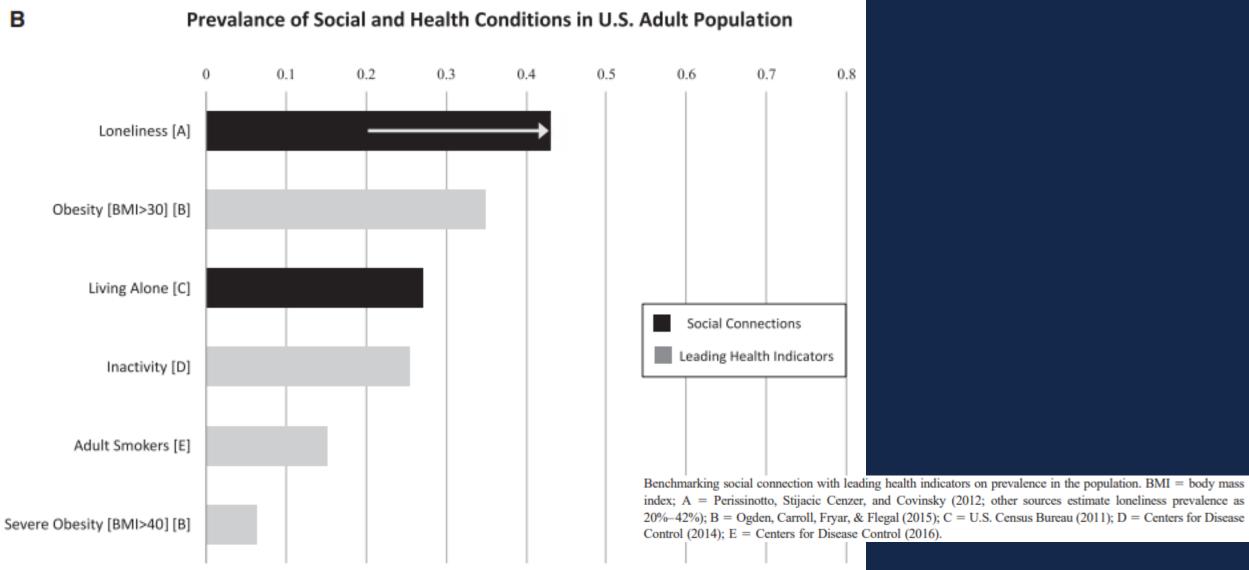


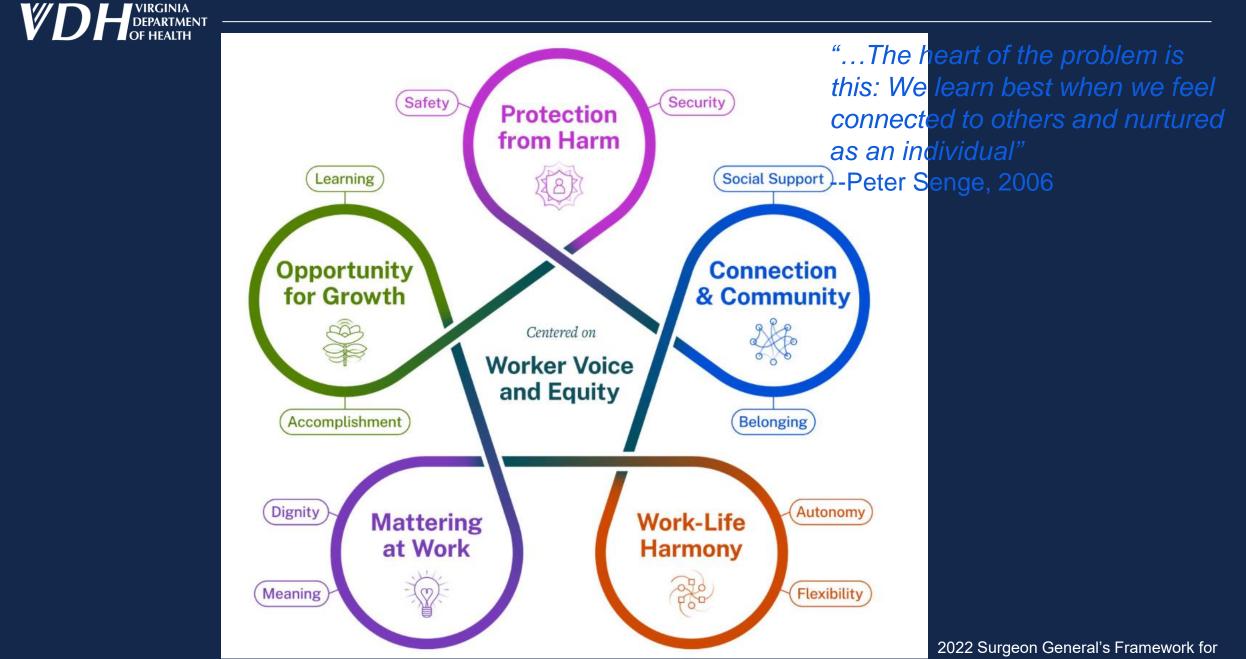
Figure 1. Panel A: Benchmarking social connection with leading health indicators on decreased odds for mortality. An effect size of zero indicates no effect. The effect sizes were estimated from meta-analyses. 95% Confidence Interval. OR = Odds ratio; HR = hazards ratio; A = Holt-Lunstad, Smith, and Layton (2010); B = Shavelle, Paculdo, Strauss, and Kush (2008); C = Critchley and Capewell (2003); D = Holman, English, Milne, and Winter (1996); E = Shor, Roelfs, Bugyi, and Schwartz (2012); F = Fine et al. (1994); G = Holt-Lunstad et al. (2015); H = Katzmarzyk, Janssen, and Ardem (2003); I = Flegal, Kit, Orpana, and Graubard (2013); J = Schwartz (1994). Panel B:

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Percentage of the U.S. Population







Paulina Siniatkina (1989-), Don't speak! Tempera on canvas (2016)



Syndemic of Mental Health Concerns and TB



Module 6: Tuberculosis and comorbidities Mental health conditions





THE LINKS BETWEEN TUBERCULOSIS AND MENTAL HEALTH: EVIDENCE AND BEST PRACTICE INCORPORATING GUIDANCE TO USAID



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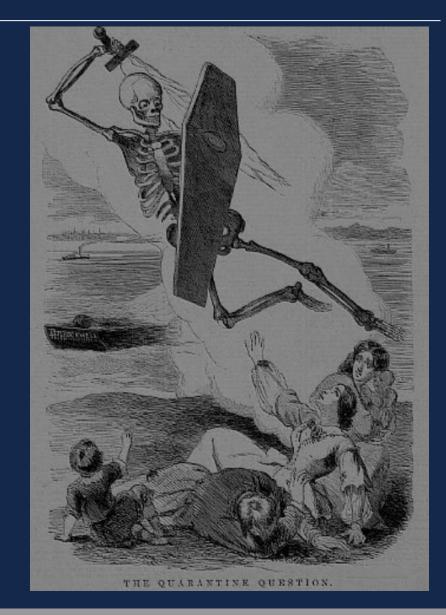




History of Isolation/Quarantine

- AD 549 Emperor Justinian enacts law to isolate people arriving from areas where Bubonic plague spreading.
- 600s China with well-established policy to detain plague-stricken sailors and foreign travelers arriving in Chinese ports.
- 1179 Third Lateran Council decrees living arrangements for lepers and how their separation from society is necessary.
- 1348 Venice creates governmental authority of a council to detain and isolate ships for up to 40 days.

Latin for "40" quadraginta



Harper's Weekly quotes a Dr. Anderson as saying: "While the Angel of Death rides on the fumes of the iron scow, and infected airs are wafted to our shores from the anchorage, we shall have no security against these annual visitations of pestilence." © Corbis Images





- 1403 Venice establishes first maritime quarantine station, or lazaretto (derived from *lazzeri* which means lepers)
- 1647 Boston creates ordinance requiring all arriving ships to pause at harbor or risk \$100 fine.
- 1663 Due to plague epidemic English monarchy issues royal decree establishing permanent quarantines on all London-bound ships at mouth of Thames for 40-80 days.
- 1738 NYC City Council sets up quarantine anchorage off Bedloe's Island.
- 1799 Philadelphia builds expansive quarantine station called the Lazaretto on Delaware River.

Westphalian master, Healing of Lazarus, 1400. Courtesy of Barnes Foundation.

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- 1863 NY state creates Quarantine Act giving powers to health officer to detain any ship for any required length and to require fumigation.
- 1879 US Congress establishes Board of Health to assume quarantine responsibility if states' actions ineffective. Dissolved due to lack of funding.
- 1893 National Quarantine Act creates national system quarantine, codifying standards for inspections of immigrants and cargo ships.
- 1944 Public Health Service Act establishes quarantine authority of federal govt, which runs quarantine stations.



1949 Seattle creates locked ward for those with TB who refused treatment. "The kind of 'assisted emigrant' we can not affor "The kind of 'assisted emigrant' we can not affor"

"The kind of 'assisted emigrant' we can not afford to admit." So reads the caption to this 1883 Puck drawing, which shows members of the New York Board of Health wielding a bottle of carbolic acid, a disinfectant, in their attempts to keep cholera at bay. © Corbis Images

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Ensuring Rights while Protecting Health

- 1900 Case of Chick Gin---Chinese business person who died of bubonic plague in San Franciso, leading to quarantine of over 25,000 Chinese residents and business closure. Lifted by court stating health officials acted with "evil eye and an unequal hand"
- 1907 Case of Mary Mallon 'Typhoid Mary' isolated for total of 26 years until her death at Riverside Hospital on North Brother Island.
- 1916 During epidemic of poliomyelitis in NY, children forcibly separated from parents. Those able to afford a separate room and medical care able to retain children at home.
- 1917-1919 More than 30,000 prostitutes incarcerated to limit spread of sexual transmitted diseases.
- 1990s NYC detains more than 200 persons who refused voluntary treatment of MDR TB for 6months.

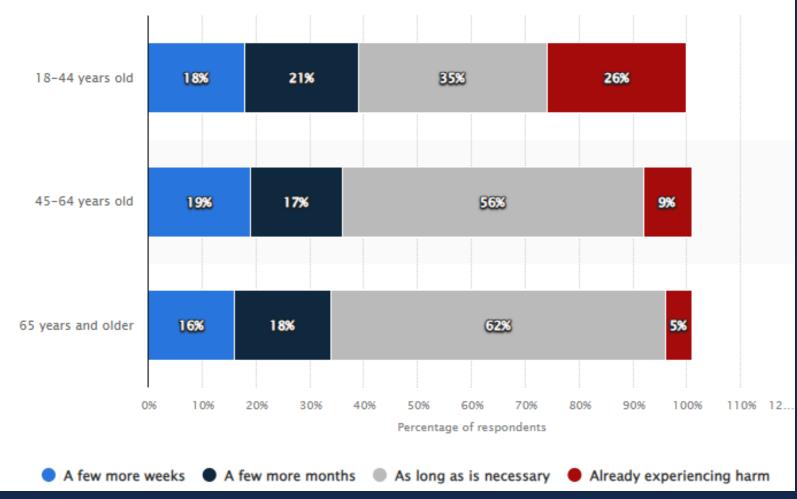


As this photograph from about 1930 shows, anyone arriving at the immigration Station on New York's Ellis Island who appeared to have a communicable disease was immediately segregated. If diagnosis confirmed the suspicion, that person was quarantined in a hospital until he or she was no longer contagious.

Courtesy of National Library of Medicin



Percentage of U.S. adults able to follow social distancing for select time periods before their mental health suffers as of April 2020, by age N=7931



https://www.statista.com/statistics/report-content/statistic/1169578

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Mental Health and Quarantine

- Covid re-focused examination on quarantine

 Demonstrated increased anxiety/depression, trauma sxs
- Increased exhaustion
- Low mood/sadness
- Anxiety in caring for patients
- Sense of detachment
- > Irritability
- Insomnia
- Poor concentration
- Challenges engaging in work and increased avoidance behaviors (including substance abuse)
- While acute mental health symptoms decrease over time, still increased risk for chronic symptoms years later

Brooks SK, Webster RK, Smith LE, Woodland L, Wessely S, Greenberg N, et al. The psychological impact of quarantine and how to reduce it: rapid review of the evidence. Lancet. 2020;395:912–20.

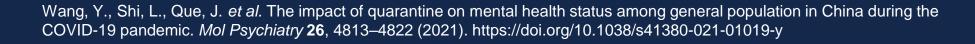
Hossain MM, Sultana A, Purohit N. Mental health outcomes of quarantine and isolation for infection prevention: a systematic umbrella review of the global evidence. Epidemiol Health. 2020;42:e2020038. doi: 10.4178/epih.e2020038. Epub 2020 Jun 2. PMID: 32512661; PMCID: PMC7644933.





Factors Affecting Response to Quarantine

- Duration
- Fears of Infection
- Frustration/Boredom
- Inadequate Basic
 Supplies
- Inadequate Information
- Financial Impact
- Stigma







National Tuberculosis Coalition of America (NTCA) Guidelines for Respiratory Isolation and Restrictions to Reduce Transmission of Pulmonary Tuberculosis in Community Settings

> "A community-based TB isolation policy is needed because TB is an airborne infection capable of spreading through communities, and an isolation policy has the potential to reduce or stop the spread of TB. However, current practices may prioritize public health safety to an extent that is detrimental to individual wellbeing, liberty and social justice. Current practices may be inconsistent and varied, which is detrimental to social justice and procedural legitimacy; and current practices may not reflect all available scientific data."

> > *Clinical Infectious Diseases*, 2024; ciae199, <u>https://doi.org/10.1093/cid/ciae199</u>



Within these walls I am secure from joy,—yes...But from pain also. — Ruth Reed reflections from sanitorium

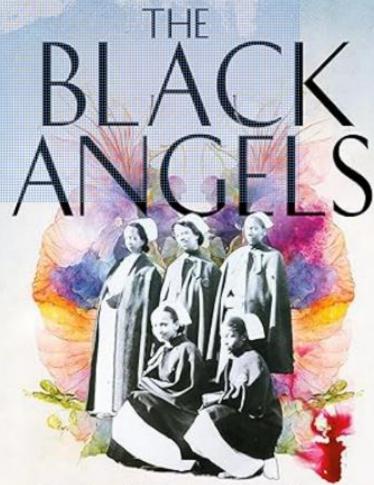






"These aren't just questions about disease, they're also questions about social responsibility and citizenship and protecting your local community." –Graham Mooney, Johns Hopkins SPH





The Untold Story of the Nurses Who Helped Cure Tuberculosis MARIA SMILIOS



Edna Sutton, Missouria Louvinia Meadows-Walker, Clemmie Phillips, Phyllis Alfreda Hall Lambert, Marjorie Tucker Reed, Kate Gillespie, Virginia Allen





Surgeon General's 2023 Report Recommendations

- Strengthen Social Infrastructure
- Enact Pro-Connection Public
 Policies
- Mobilize the Health Sector
- Reform Digital Environments
- Deepen our Knowledge of Social Disconnection
- Cultivate a Culture of Connection



Thank you!

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