

#### Social Isolation & Loneliness: Relationships to Health and a Call to Action







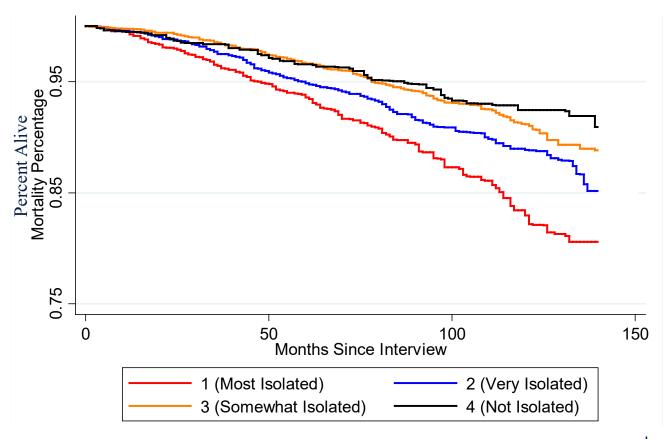
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#### **Definitions**

- Social isolation
  - The objective lack of (or limited) social contact with others
- Loneliness
  - The perception of social isolation or the subjective feeling of being lonely
- One can be lonely even if not socially isolated, and vice versa
- Distinct concepts with implications for interventions

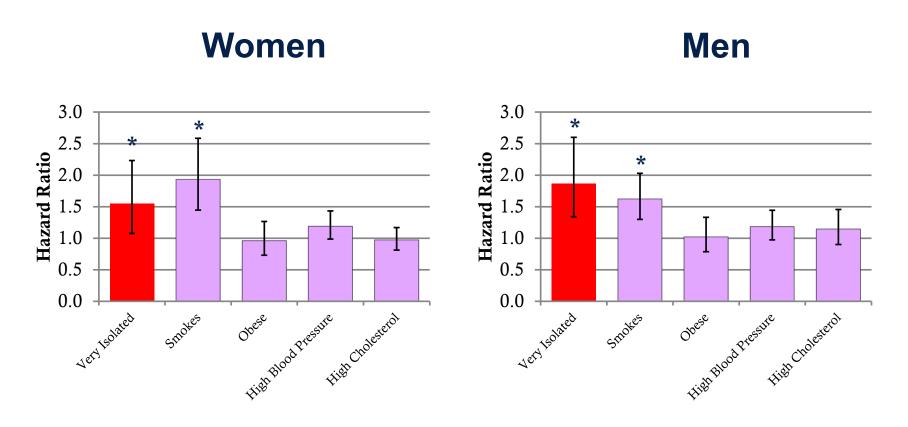


# Social Isolation and Mortality among Women





### Social Isolation is an Equally Strong Risk Factor as Traditional Clinical Risk Factors



Adjustments: Age, race/ethnicity, and socioeconomic status

\* P < 0.05



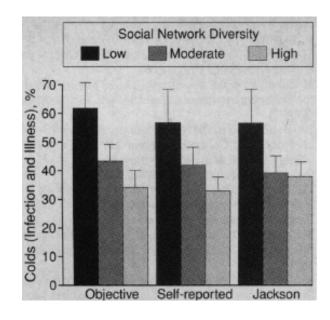
## Inflammation and Immunology

#### Loneliness is associated with

- Altered genome transcriptional activity<sup>1</sup>
  - Under-expression of genes promoting antiinflammatory response
  - Over-expression of genes promoting proinflammatory receptors

#### Social isolation is associated with

- Increased levels of C-reactive protein<sup>2</sup>
  - A marker for inflammation associated with cardiovascular disease
- Increased susceptibility to the common cold<sup>3</sup>





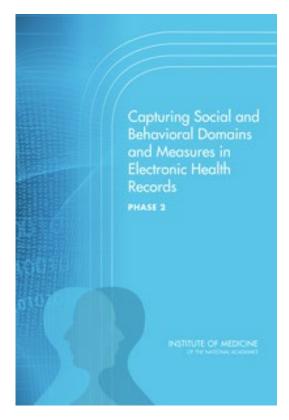
## Populations with Increased Risk

#### NASEM 2020 Report<sup>1</sup>

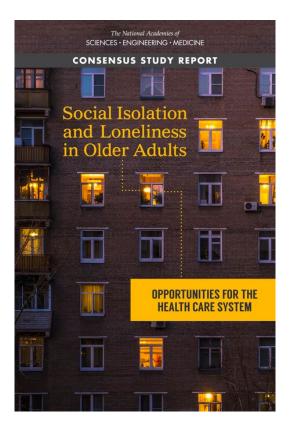
- Certain immigrant communities
- LGB individuals
- People living with chronic diseases
- People who have experienced hearing loss
- Tung et al.<sup>2</sup>
  - People experiencing financial strain
  - People experiencing intimate partner violence
- Understudied population: youth and young adults



## Endorsement of Screening



National Academy of Medicine, 2014



NASEM, 2020



### NASEM 2020 Report

- Goal 1: Develop a more robust evidence base
- Goal 2: Translate current research into health care practices
- Goal 3: Improve awareness of the health and medical impact of social isolation and loneliness across the health care workforce and among members of the public
- Goal 4: Strengthen ongoing education and training related to social isolation and loneliness in older adults for the health care workforce
- Goal 5: Strengthen ties b/w the health care system and community-based networks and resources



## Lessons Learned from National and International Stakeholders

- Social isolation and loneliness are cross-sectoral issues
- The health care system should be proactive rather than reactive
- Enthusiasm for government involvement and accountability
- Increasing recognition of the importance of social isolation and loneliness to health care plans



## Recommendations During the COVID-19 Era

- Maintain social contact physical vs. social distancing
- Support those unfamiliar with ways to connect through technology
- Initiate new connections
- Know when to ask for help
- Providers should screen for social isolation and loneliness and refer patients to appropriate resources



- Acknowledgments
  - The Commonwealth Fund
  - The Alliance for Health Policy
  - The NIHCM Foundation

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