# Institute on Disability/UCED



# Aging with a Disability and Aging into Disability: Examining Health Outcomes in Rural and Non-Rural Communities

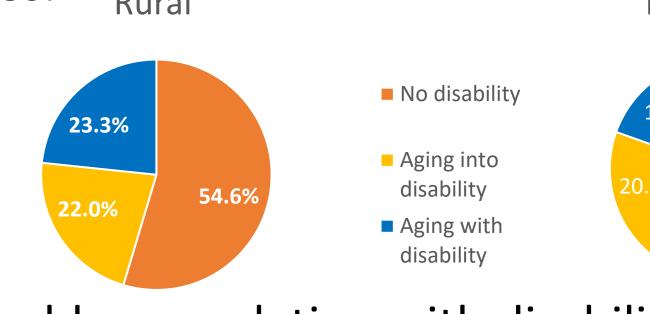
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#### Introduction

People with disabilities, older adults, and older adults with disabilities are all more prevalent in rural counties compared to nonrural counties.

Rural

Rural



Among the 65 and older population with disability, a large proportion will be experiencing disability as a result of aging (that is, aging *into* disability) and some will be aging *with* disability, that is, having experienced an earlier or life-long disability. This research describes health outcomes for older adults by rurality and disability status/onset.

#### Data and Methodology

<u>Data</u>: 2018 Health and Retirement Study (HRS) data limited to those aged 65 and older in 2018 (n=5,387). Health characteristics are shown for three groups: those who are aging with a disability (20.6%); those who have aged into disability (21.0%); and those with no disability (58.4%).

Methods: Bivariate analysis examines chronic disease prevalence, mental health self-reports, and preventive health behaviors. Odds ratios (and 95% confidence intervals) for logistic regression models predicting select mental health characteristics are shown for those living in rural communities. These control for age, gender, race/ethnicity, and educational attainment.

#### Measures

#### **Operationalizing Disability:**

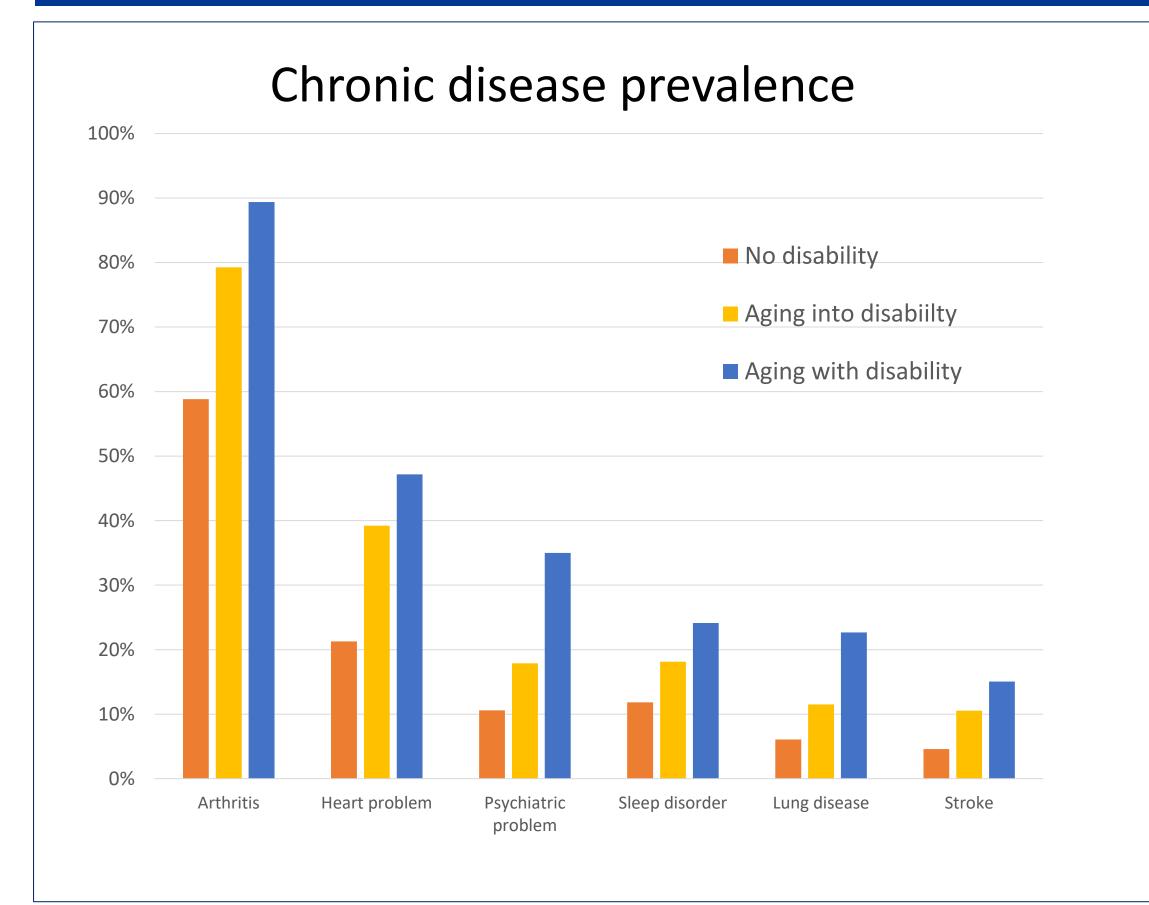
"[if applicable: You said you are not working anymore, but we would like to ask how your health might affect paid work activities you could do.] Now I want to ask how your health affects paid work activities. Do you have any impairment or health problem that limits the kind or amount of paid work you can do?"

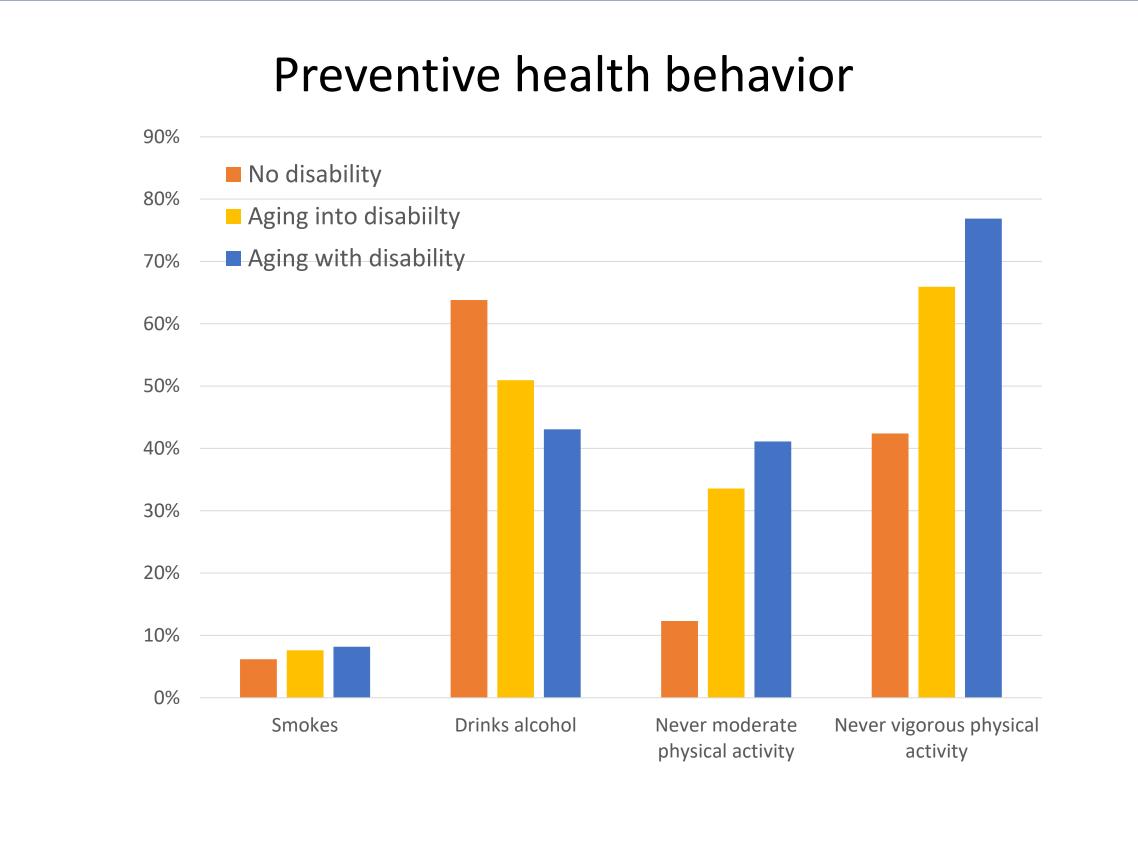
- If no in 2010 and 2018: No disability
- If *no* in 2010 and *yes* in 2018: Aging into disability
- If yes in 2010 and yes in 2018: Aging with disability

#### **Operationalizing Rurality:**

Beale urban/rural continuum codes of 3 and higher are coded as rural. This is based on county of residence. Only those who did not move between 2010 and 2018 are examined.

# Health Outcomes by Disability Group



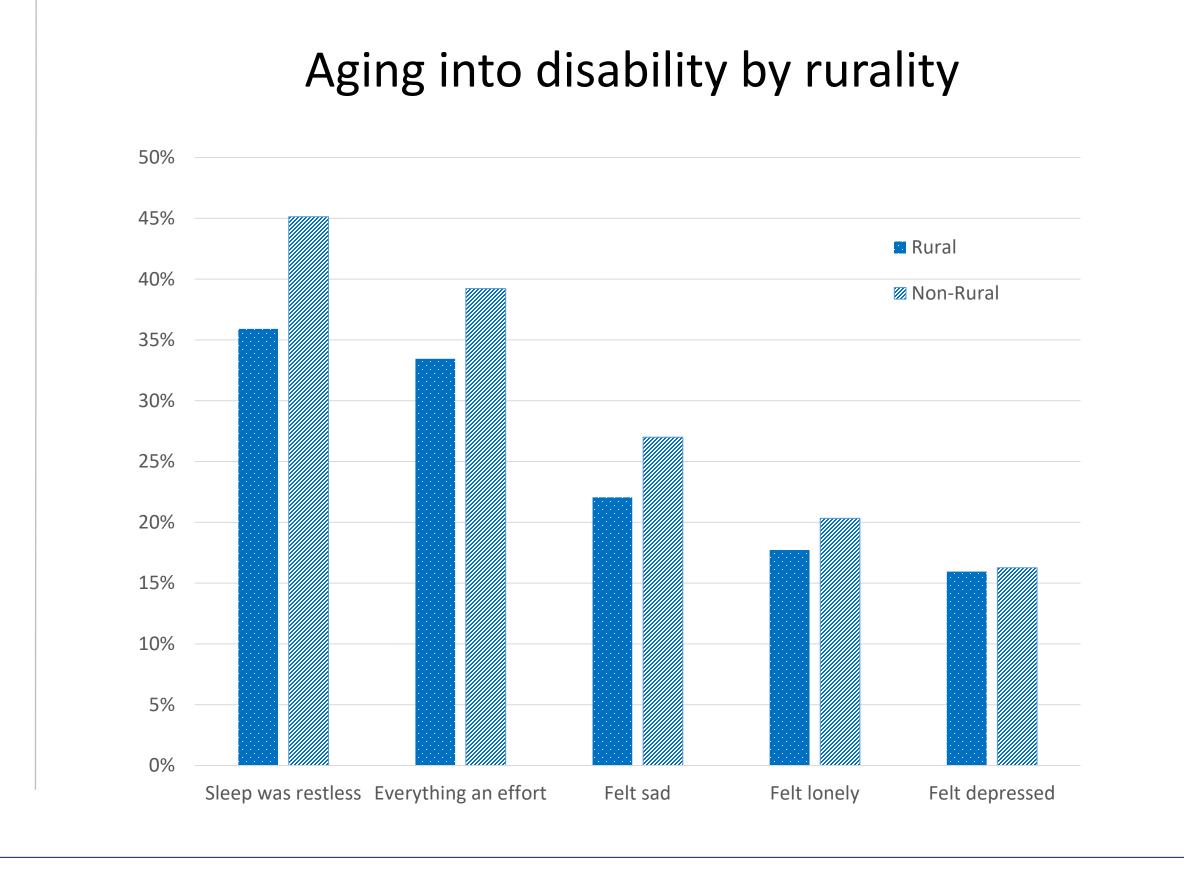


#### Results

- This work highlights differences in health outcomes across disability groups and between community types, recognizing that the experiences of older adults with disability varies depending on whether disability onset was earlier or later in life, and that it varies across types of places for some characteristics.
- Those who are aging with a disability have more substantial health needs, including higher rates of chronic disease and higher rates of negative mental health measures relative to the other disability groups. Preventive health behavior measures are mixed, but those who are aging with disability are significantly less likely to get any physical exercise.
- Differences by rurality were most pronounced in mental health measures.

# Mental Health Outcomes by Disability and Rurality

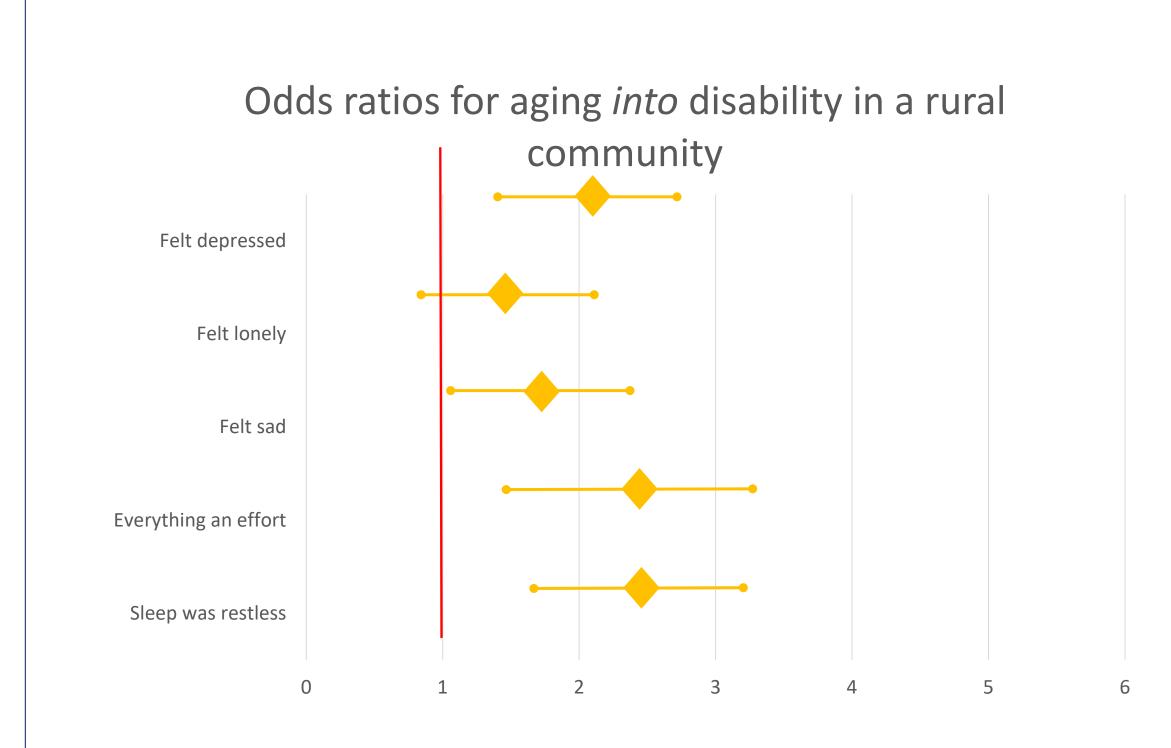
# Mental health by disability group 45% 40% Aging into disability Aging with disability 25% 20% 15% Sleep was restless Everything an Felt sad Felt lonely Felt depressed



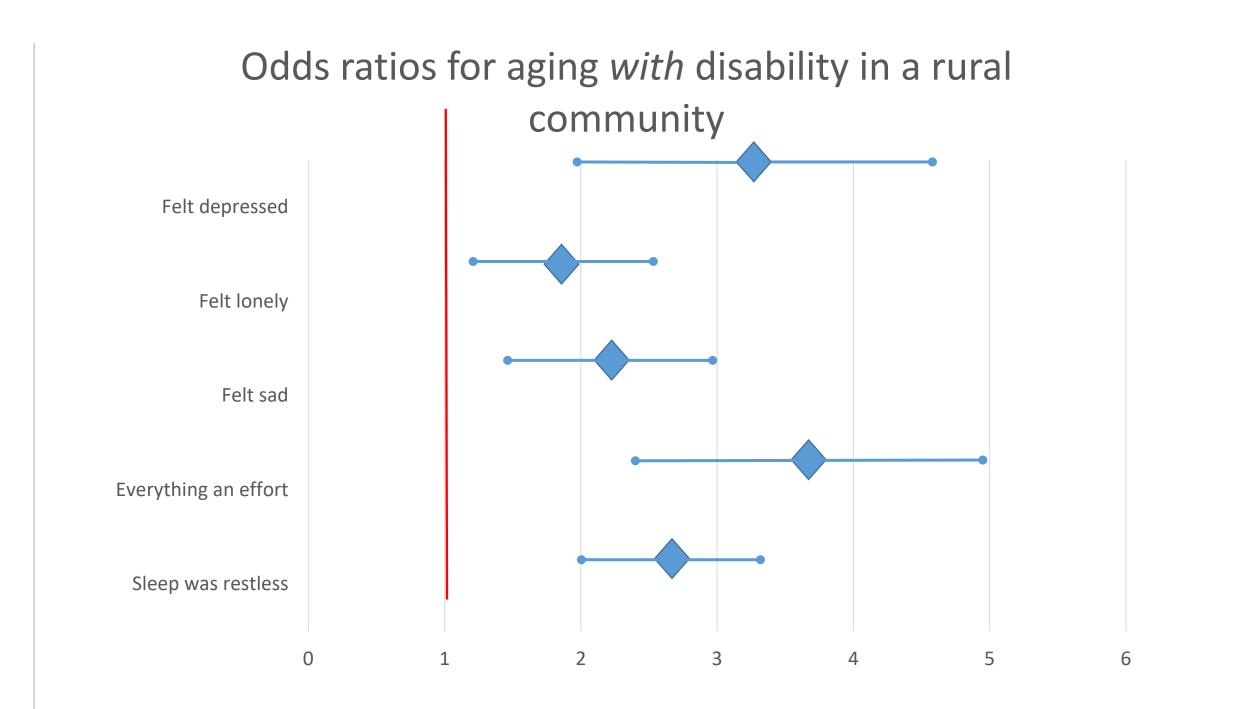
### Conclusions

- Assessing health outcomes for different disability groups within community type may be a useful approach for evaluating modes of intervention or idenfitying different types of intervention.
- Efforts to target people with disabilities for health interventions could benefit by considering disability characteristics and community characteristics.
- Older adults with disabilities are a heterogeneous group. This analysis examines just two characteristics. Further work should explore other ways in which we can better understand the varied needs of this population.

# Role of Disability Type in Predicting Mental Health in Rural Communities



Relative to those with no disability, those aging into disability had significantly lower mental health outcomes in four of five areas, holding other demographic characteristics constant.



For those aging with a disability, significant differences in all mental health areas were more prominent than in the other disability group.

## Acknowledgements

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#### References

Coyle, C. E., & Putnam, M. (2017). Identifying adults aging with disability using existing data: The case of the Health and Retirement Study. *Disability and Health Journal*, 10(4), 611–615.

Hogan, A. J. (2019). Social and medical models of disability and mental health: Evolution and renewal. *Canadian Medical Association Journal*, 191(1), E16–E18.

Mitra, S. (2018). The Human Development Model of Disability, Health and Wellbeing. In S. Mitra (Ed.), Disability, Health and Human Development (pp. 9–32). Palgrave Macmillan US.

Mitra, S., Brucker, D. L., & Jajtner, K. (2020). Wellbeing at older ages: Towards an inclusive and multidimensional measure. *Disability and Health Journal, 13*(4),