

OVERVIEW

- o Background
- o Findings from Preliminary Investigation
- o Findings from a Recent Study
- o Potential Contributions & Limitations
- o Discussion / Q&A

THE IMPORTANCE OF SOCIAL RELATIONSHIPS

- o Ever since Berkman & Syme (1979) published their pioneering study, a significant body of evidence has emerged to show that social relationships are associated with physical and mental health across the life-course.
- o Studies show consistent relationship between the quantity and quality of our social relations and:
 - Health, disease, & risk of mortality.
 - · Psychological well-being and mental health.
 - · Use of formal services & risk of institutionalization.
 - · Outcomes after rehabilitation.

SOCIAL RELATIONSHIPS AND MORTALITY HOLT-LUNSTAD ET AL. (2010)

- Meta-analytic review compiled data on social relationships & mortality:
 - Compiled data from 148 studies with over 300,000 participants and found a 50% increase in survival for individuals with stronger social relationships.
 - These effects remained significant even after controlling for age, sex, initial health status, cause of death, and the length of the follow-up period.
 - "The magnitude of this effect is comparable with quitting smoking and it exceeds many well-known risk factors for mortality (e.g. obesity, physical inactivity),"





COMMUNICATION IMPAIRMENTS



- Communication impairments include a wide variety of disorders related to speech, language, hearing and cognitive function for communication.
- It is estimated that 1 in 6 Americans has a communication impairment of some kind.

"COMMUNICATION FORMS THE FOUNDATION OF SOCIAL INTERACTION"

- With regard to older adults, communication is central to the process of successfully adjusting and adapting to the aging process.
- Communication is essential for:
 - · Living independently
 - · Pursuing personal goals & interests
 - · Performing social roles & functions
 - Maintaining personal & familial relationships
 - · Making decisions & exercising control over QOL and care

AGING & COMMUNICATION IMPAIRMENTS



- Studies of communication have shown that the conversational skills of normally aging older adults tend to remain well-preserved.
- With increasing age, there is an increase in the prevalence of conditions that interfere with communication.
 - In older adults, hearing disability is the most common, with an estimated prevalence of around 35%
 - 55% of Medicare beneficiaries estimated to have some type of communication impairment (over 16 million).

IMPACT OF COMMUNICATION IMPAIRMENTS



- Communication impairments are associated with increased risk of depression, social isolation, loneliness and poorer quality of life.
- o But, it is difficult to estimate the relative impact of a communication impairment because they often co-occur with other health problems & functional limitations

THE SOCIAL LIFE OF OLDER ADULTS



- Previous stereotypes of aging were that older adults lived lives of social isolation and exclusion, but research has shown that this is not the case:
 - Most older adults remain active participants in the lives of their friends, families and communities.
- In normal aging, there are changes in social relationships of older adults.
 - Older adults seem to show a preference for relationships with individuals that they have deeper personal connections with, rather than more casual acquaintances.
 As a result, the social networks of older adults become
 - As a result, the social networks of older adults bec smaller and more emotionally close over time.
- Individuals become more positive about their social relationships as they age.

THERE ARE A WIDE VARIETY OF SOCIAL MEASURES THAT CAN BE EXPLORED



- o Social isolation = An objective measure of reduced size of an individual's social network or the frequency of contact with others.
- o Social network characteristics = The density, type, size, or the number of (supportive) social contacts in an individual's life
- Social support = A measure of the adequacy of support often in a variety of domains (e.g. emotional, practical, informational)
- Social participation = ability of an individual to participate in social roles, relationships, activities and functions.
- Negative social interactions = interpersonal conflict, arguments, criticism, and unwanted intrusions.
- Loneliness = A subjective measure of feeling of the lack of certain types of relationships or missing a certain quality in those social relationships.

PREVALENCE OF LONELINESS & SOCIAL ISOLATION IN OLDER ADULTS

- Q.S.
- Evidence suggests that only a minority of community-dwelling older adults are "severely" lonely or isolated:
 - · 10% of community-dwelling older adults.
- Risk factors include:
 - Loss of a partner, having no (surviving) children, living alone, and poor health.
 - The risk of these life events occurring increases with age.

COMMUNICATION & SOCIAL RELATIONSHIPS



- Studies of community-dwelling older adults negligible association.
- Studies of older adults with hearing impairments –
 inconsistent association
- Studies of some populations with communication impairments – more consistent relationships (very limited data).
- Discrepancies may relate to differences in study design, covariates, measurement of variables, and differences between groups.

COMMUNICATION IMPAIRMENTS & MENTAL HEALTH



- o Some evidence for a causal relationship between communication impairments & well-being.
- Interventional studies for a range of different types of communication impairments have shown improvements in loneliness, depression, and QOL
- o These findings have been shown not just in individuals with communication impairments themselves but also spouses & family members.

QUESTIONS



- o So, if "communication forms the foundation of social interaction"...
 - How important is communication for maintaining social relationships?
 - For those with a communication impairment, can we make a statement about the impact on social relationships, regardless of the etiology of that impairment?
 - And, if so, what are the implications of those changes in social relationships for mental health?



SECONDARY ANALYSIS OF EXISTING DATASET



- Used data from the Later Life Study of Social Exchanges (LLSSE), an NIA-funded study that has formed the basis for a number of publications.
- Participants were a representative, national sample of older adults aged 65 or more, from all 50 states, who were living independently in the community (n = 742).
- Participants asked questions about demographics, health, well-being, and social relationships.
- 3 items related to communication used to create communication impairment variable.

RESULTS



- o A series of multiple regressions was performed.
- Communication impairment was significantly associated with a number of social measures.
- Even after controlling for other characteristics (age, partnership status, health, and disability), communication impairment was a significant predictor of:
 - · A smaller social network
 - · Less frequent participation in social activities
 - · Experiencing fewer positive social exchanges
 - · Higher levels of loneliness
- There was no significant difference in negative social exchanges.



CHARTS STUDY



o Purpose:

 To provide detailed information about the health, communication status, and social relationships of a sample of community-dwelling older adults using well-validated measures.

o Mixed Methods Design:

- · Phase 1: Quantitative survey of a larger sample
- Phase 2: Face-to-face interviews in selected participants

• Rationale:

 Mixed methods is particularly valuable in studies of social phenomena that must take many different factors into account.

CONCEPTUAL FRAMEWORK

(Adapted from Berkman et al., 2000)



Mental Health & Well-Being

Social Self-Efficacy
Loneliness
Depression

 Social networks provide the structure (Mezzo) which provide opportunities for interpersonal contact (Micro) which, in turn, affect mental health and well-being.

STUDY RECRUITMENT



- Possible reasons for inconsistencies in previous studies:
 - Studies of community-dwelling older adults: Low prevalence of communication impairment
 - Studies of older adults with communication impairments: High rates of comorbidity & disability
- Targeted recruitment method used to ensure variability on these measures.
- o Older adults recruited with conditions that affect:
 - · Communication alone
 - · Communication & functional abilities
 - · Functional abilities only
 - And older adults without any significant health problems.

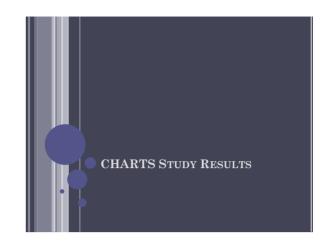
PHASE 1: QUANTITATIVE



- o Participants were asked to complete a survey either by mail or online with questions relating
 - · Demographics
 - Communication
 - Health & disability
 - Social relationships
- Mental health & well-being
- o A total of 240 individuals completed the survey and were eligible for inclusion.

Phase 2: Qualitative

- Purposive sampling was used to select 14 individuals from Phase 1 to take part in face-toface interviews.
 - Interviews were recorded, transcribed, and coded for analysis..
- o Integration of findings from Phase 1 & 2:
 - Illustration: descriptive information provided additional detail and insight into quantitative results.
 - Exploration: way of trying to explain unexpected results in the quantitative data.



COMMUNICATION PREDICTED KEY ASPECTS OF SOCIAL RELATIONSHIPS & WELL-BEING

- After controlling for demographic characteristics, health, and disability, communication significantly predicted:
 - Significantly fewer friends in the social network
 - \circ Not predictive of total social network size nor the number of family in the social network
 - Two aspects of social support:
 - Social integration ("belonging support") and
 Reassurance of worth ("esteem support")
 - · Social participation:
 - o Frequency of social participation and
 - The number of social activities engaged in.
 - Social self-efficacy, loneliness, and symptoms of depression.

LOSS OF FRIENDS & REDUCED SOCIAL INTEGRATION



- Those with greater communication difficulty had significantly fewer friends in the social network.
- In addition, communication impairment was a significant predictor of a related form of social support: Social Integration.
- Social integration relates to a sense of "belonging" which is derived from membership in a group of individuals with similar interests, concerns, and/or recreational activity and is most often provided by friends.

THE IMPORTANCE OF SOCIAL RELATIONSHIPS

- Continuity of relationships with friends and family over time emphasized during interviews.
- o The importance of companionship and close friendships (people who "look at the world like I look at it") was acknowledged by almost all.
- Many went to great lengths to maintain friendships over long periods & distances.
- Some reported a reduced interest in group membership with those that they did not feel a close connection with.

CHANGES IN SOCIAL RELATIONSHIPS

- Some life transitions, such as relocation and retirement, resulted in the sudden loss of close friends.
- o Some members of the social network "fell by the wayside" following the diagnosis of a disability.
- Due to increased reliance on a spouse/partner, some individuals felt "out of the loop" in planning social events and had less control over who they socialized with.



SOCIAL PARTICIPATION

- Poorer communication was significantly associated with less frequent social participation and a reduced number of social activities.
- Interviews highlighted some of the problems with social participation:
 - Difficulties occurred in a wide range of social contexts and this made participation in some of these types of social events less rewarding.
 - The difficulties that they experienced, particularly in group settings, often resulted in feelings of wearing an "invisibility cloak" or being "alone in a crowd."

INSIGHTS FROM INTERVIEWS: THE IMPORTANCE OF SOCIAL PARTICIPATION

- For most people, however, there were reasons to continue social participation.
 - Some individuals continued to attend in order to maintain their social connections.
 - Others "made the effort" on behalf of their spouse or partner.
 - In some cases, individuals went to great lengths planning participation in social events, including choosing in advance who to go with and how long to stav

SOCIAL ISOLATION



- Social isolation was rare occurring in only 12% of the sample. This is consistent with other estimates from studies of older adults.
- In an interview, one participant described his progression from being "alone in a crowd" until finally: "You just end up being alone off by yourself and do things just by yourself."

REASSURANCE OF WORTH



- Communication impairment was a significant predictor of a second form of social support, namely reduced Reassurance of Worth.
- o Reassurance of worth is the sense that the competence, skill, talents, and abilities of an individual are recognized by others. Also known as "esteem support" or "affirmation."
- During interviews, a variety of experiences were described that appeared to have taken a toll on selfperceptions of competence and worth.
- perceptions of competence and worth.

 In some cases a relatively "mild" communication impairment resulted in a significant change in social roles and responsibilities. This was often associated with considerable psychological distress.

REASSURANCE OF WORTH

- Role losses: Role losses secondary to no longer being able to perform "adequately" or assume "leadership positions."
 - These were coupled with societal messages reinforcing a sense of irrelevance, such as taking "forced retirement" or being signed up for disability despite a desire to continue working.
- Changes in self-perception: Some individuals perceived themselves differently as a result of their communication changes.
 - Participants tended to judge themselves as appearing less "confident," less "interesting," felt "more selfconscious" and described a loss of a sense of self.

SOCIAL SELF-EFFICACY



- Poorer communication was the only variable that was associated with significantly reduced social self-efficacy. A novel finding.
- Social self-efficacy is a belief in one's ability to deal effectively with others.
 - Social self-efficacy a predictor of mental health in older adults.
- Some interviewees reported reduced ability to make new friends, even when they were in social contexts with opportunities for doing so.

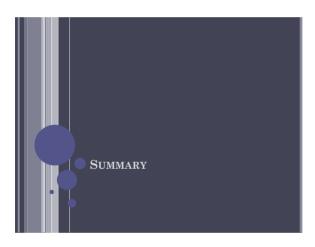
CHANGES IN SOCIAL SELF-EFFICACY



- In Phase 1 survey, respondents asked if social selfefficacy had changed over time and, if so, how and why?
- The majority of respondents reported no changes (62%).
- o Of those who reported changes in social self-efficacy:
 - Most common reason for positive changes in SSE: increased self-confidence/maturity.
 - Most common reason for negative changes in SSE: communication impairments.
- Consistent with findings from the multiple regression:
 - Communication impairment was the only significant predictor of social self-efficacy.

ROLE OF SOCIAL SELF-EFFICACY CONSISTENT WITH OTHER RESEARCH

- Other studies have found that hearing impairment is associated with decreased mastery and self-efficacy.
 - Hearing impairments may not only limit participation in activities but also lead to declines in the sense of control, competence, and self-confidence leading, in turn, to increased distress, anxiety, and depression.
- o Some previous research has shown that other types of communication impairments have a similar impact.
- Self-efficacy hypothesized to be an important factor in negotiating access to social support which in turn influences health ("support-efficacy model").



SUMMARY

- Findings support an association between communication impairment and the social relationships of older adults.
- Not all aspects of social relationships were affected equally.
 - Particular impact on relationships with friends, two subtypes of social support (social integration and reassurance of worth), and social self-efficacy.
- Communication impairment also independently predicted higher levels of loneliness and symptoms of depression.

IMPLICATIONS

- Feasible to conduct research in older adults with a variety of communication impairments using a single measure of functional communication.
- Psychological impact of communication impairment not necessarily associated with objective "severity".
 - Need to consider social context as much as the severity of the impairment.
- Communication impairments affected self-perception and self-concept. Pathway of impact on psychological well-being may be through self-efficacy.
 - Is this amenable to intervention?
 - If so, what is the impact of treatment?

LIMITATIONS

- o Cross-sectional:
 - Not possible to describe longitudinal changes.
 - $\bullet\,$ Causal relationships cannot be proven, only inferred.
- Characteristics of the sample:
 - · Volunteer bias in any survey research.
 - Oversampling of communication impairments.
 - · Lack of racial and ethnic diversity in sample.

POTENTIAL CONTRIBUTIONS

- A better understanding of which social relationships are affected and in what ways might:
 - Identify which types of social relationships should be measured future investigations regarding the efficacy of interventions and treatment.
 - Enable better counseling of individuals and their families about the importance of seeking intervention for communication impairments.
 - Support advocacy to third-party payers about the importance of funding these types of interventions.

TARGETING PARTICIPATION



- The World Health Organization's ICF model (2001) encourages us to think beyond "body functions and structure" but at the level of Activity and Participation.
- Improving communication does not necessarily mean improving participation in communication situations (Simmons-Mackie, 2000). It is likely that this needs to be targeted specifically:
 - · "Life participation approach" to rehabilitation
 - New assessment tools such as Communicative Participation Item Bank (Baylor et al., 2013) & Social Networks Communication Inventory (Blackstone & Berg, 2003)

A BIG THANK YOU TO THE FOLLOWING:

- o Hartford Center for Gerontological Excellence
- o The study participants
- o PhD Committee at PSU:
 - Jason Newsom, PhD (Chair)
 - · Paula Carder, PhD
 - · Diana White, PhD
 - Gabrielle Saunders, PhD
 - Hyeyoung Woo, PhD
- o Faculty & fellow students
- o OHSU
 - Paul Flint, MD, Donna Graville, PhD, and all of my colleagues in the NW Center for Voice & Swallowing.
- o My wife

THANK YOU FOR YOUR ATTENTION... AND DON'T NEGLECT YOUR SOCIAL RELATIONSHIPS!

