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Managing loneliness and chronic illness in older adults

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Abstract: An increased lifespan does not necessarily equate to a high quality of life. This article discusses strategies to help older adult patients cope with loneliness, social isolation, and chronic illness to improve their health and quality of life.

Keywords: chronic illness, depression, geriatrics, loneliness, older adults, quality of life, social isolation

APPROXIMATELY 617 million adults were age 65 or older as of 2015, translating to 9% of the global population. By 2030, the population of older adults is expected to reach 1 billion (12%); by 2050, this is projected to increase globally to 1.6 billion (17%).¹⁻³ As of 2016, older adults made up 15.2% of the US population.⁴ Generally, people are living longer due to factors such as improved health and dental care, immunizations, and better nutrition. Environmental changes such as safer housing, plumbing, and better air and water quality have also improved health outcomes.¹⁻³

According to the World Health Organization, *health* refers to an individual's "state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity."⁵ As such, living longer does not always equate to a high quality of life.⁶ Depression and decreased enjoyment of life are common in older

adults who are lonely and experiencing chronic illnesses.⁶ This article discusses strategies to help older adult patients cope with loneliness, social isolation, and chronic illness in order to improve their health and quality of life.

Loneliness in older adults

Loneliness is broadly defined as feelings of sadness and despair that may result from being cut off from others or without company. In the literature, loneliness is described as a subjective feeling of distress from being alone.^{7,8} Individuals may feel alone with or without company. Like younger people, older adults are social beings who require intellectual stimulation and intimacy to enjoy a sense of belonging and to feel valued.^{7,8}

Loneliness and social isolation are two distinct but interrelated processes.^{2,7,8} Social isolation is characterized as an objective physi-

cal separation from other people; for example, older adults who live alone and cannot socialize due to mobility limitations.^{7,8} Social isolation may also occur secondary to chronic illness, leading to the development of loneliness.^{2,7,8}

Loneliness increases anxiety and is associated with feelings of powerlessness and a decreased sense of self-worth, as well as pulmonary, cardiovascular, endocrine, immune, musculoskeletal, and psychiatric pathologies in older adults, mediated in part through systemic stress responses.^{4,9-11} For example, older adults with diabetes may experience hyperglycemia from stress associated with loneliness. Similarly, isolated older adults may be less active, which can lead to obesity, decreased muscle mass, and increased fall risk. Maladaptive coping mechanisms such as smoking, substance use, overeating, and inactivity can also contribute to the development of these pathologies.^{4,9,10}

Approximately 25% of adults age 50 and older experience loneliness and isolation.¹² Older adults may have difficulty socializing while experiencing pain, fatigue, sleep disturbances, or problems with mobility, as well as psychosocial issues such as depression or the death or separation from a spouse or partner. Loneliness may be a separate diagnosis contributing to mortality in this population, but further research is needed.^{7,8}

Loneliness and chronic illness

According to the National Council on Aging (NCOA), 80% of older adults in the US have one or more chronic illnesses, and approximately 77% have two or more.¹ In older adults, chronic illness may lead to loneliness and social isolation. Older adults experiencing complications from physical illness and immobility are more likely to stay home rather than socialize, causing feelings of

isolation and loneliness. They may also experience cognitive decline and dementia.^{10,13} However, older adults who are active and have regular social interactions have a lower incidence of various chronic illnesses.^{10,14} (See *Major chronic conditions in older adults.*)

Social isolation has become more common among older adults.¹⁵ Social loneliness refers to a lack of community or friends, while emotional loneliness refers to a lack of strong connections to family.^{8,15} In a society that values physical appearance and beauty, older individuals may isolate themselves due to fears surrounding these youthful expectations (for example, in response to a loss of muscle tone and/or skin elasticity and turgor).¹⁶ A supportive social network helps protect older adults from depression and anxiety, decrease morbidity, and increase their lifespan.¹⁵ Consistent social interactions also decrease the risk of cognitive dysfunction and dementia in this population.^{6,11,17}

According to the NCOA, patient falls account for most fractures and traumatic brain injuries in older adults.^{1,18} Chronic disease predisposes older adults to falls as does a sedentary lifestyle, which leads to loss of balance and weakness. Regular physical activity such as walking, swimming, or yoga can reduce social isolation, especially when these activities involve other people.¹¹ However, isolation and loneliness may prevent older adults from participating in exercise and other activities outside the home.¹¹ In fact, many consequences of loneliness are also risk factors. For example, low activity may be both a risk factor and a complication.¹¹

Variables that contribute to social isolation in the chronic illness-loneliness continuum may include hypertension, dyslipidemia, hyperglycemia, physical inactivity, obesity, alcohol or tobacco use, retirement status, poverty, and health-

care disparities that limit access to care.^{1,4,16} Complications from heart disease, cancer, stroke, and diabetes account for approximately 66% of annual deaths among older adults in the US.¹ Arthritis and visual and hearing impairments also represent major problems for this patient population and often contribute to social isolation.^{1,4,16,19}

When chronic illness impairs the ability to perform activities of daily living (ADLs) or instrumental ADLs, older adults face challenges related to walking, toileting, bathing, navigating stairs, preparing meals, and driving.^{3,13} Chronic illness may also interfere with interactions with friends and family and in sexual intimacy with a romantic partner.^{3,10}

Many older adults outlive their spouse, relatives, and friends and may be separated from their children. Losing a home or income contributes to social isolation.^{4,13,20} Additionally, older adults who belong to the LGBTQ+ community may be at an increased risk for loneliness because they may be single, without children, and coping with societal stigmas regarding sexual orientation or identity.²¹

As of 2016, approximately 12.3 million older adults live alone in the US, which can lead to social isolation.⁴ Men may be more susceptible to loneliness and isolation than women because women typically have larger support systems.¹⁸

Living alone often means taking care of a family home, and the inability to do so can lead to a loss of independence and self-esteem in older adults.^{11,15,22} Those who live alone are also at an increased risk for nutritional deficiencies due to a loss of socialization often associated with mealtimes.²³

Approximately 25% of older adults suffer from depression, anxiety disorder, or dementia in the US, and about 5 million older adults have substance use disorders.¹ In

Major chronic conditions in older adults^{1,3,16,34,41,42}

Chronic illnesses	Management
Cardiovascular: coronary artery disease, hypertension, heart failure, cardiac dysrhythmias, stroke	<ul style="list-style-type: none"> • Provide patient education related to genetic predisposition or possible cardiovascular disease, as well as on healthy lifestyle changes such as nutrition and exercise. • Monitor total cholesterol, low-density lipoprotein cholesterol, triglycerides, and high-density lipoprotein cholesterol levels. Dyslipidemia is closely related to genetics and nutrition and accelerates atherosclerotic heart disease. • A high body mass index indicates that patients are overweight or obese, which can be a risk factor for atherosclerosis and increased cardiac workload. • Tobacco use and alcohol use disorder are risk factors, and nurses should provide tobacco and alcohol cessation education and support.
Pulmonary: chronic obstructive pulmonary disease, asthma, lung cancer	<ul style="list-style-type: none"> • Aging causes decline in pulmonary function. Older adults should remain active to preserve pulmonary function and promote optimal oxygen and carbon dioxide exchange. • Assess and manage comorbidities that may decrease stamina, as well as tolerance to medications for pulmonary diseases. • Tobacco use is also a major risk factor for pulmonary disease in older adults, and smoking cessation should be encouraged. • Educate older adults on the importance of immunizations, such as vaccination for pneumococcal pneumonia and annual influenza strains, and provide necessary vaccinations as prescribed.
Neurologic: Alzheimer disease and other types of dementia, tremor and movement disorders; low back pain and cervical pain due to spinal cord disorders; memory and cognitive disorders; sensory, gait, and balance disorders; vascular dementia; stroke	<ul style="list-style-type: none"> • Provide patient education on and assess for cognitive impairment, which can impact nutrition, mobility, and medication adherence, as well as lead to safety issues such as falls. • Use standardized tools to assess cognitive status, such as the Mini-Mental State Exam. • Ensure regular social interactions. More severely impaired patients may require assistance with ADLs, hygiene, and nutrition. • Recommend consultations with physical therapists, respiratory therapists, and other healthcare specialists to the primary care provider (PCP).
Endocrine: diabetes mellitus; diabetic nephropathy; diabetic neuropathy; diabetic retinopathy	<ul style="list-style-type: none"> • Monitor glucose and hemoglobin A1C levels, and assess for hypertension, renal disease, vision changes, and neuropathy. • Educate patients and families on measuring blood glucose at home, reporting abnormal levels, and seeking care. • Measure BP and educate patients and families about monitoring BP at home and meeting appropriate BP goals. • Tell patients with neuropathy to report any numbness, tingling, or burning pain, as well as problem in urinating. Advise them to ambulate carefully to prevent falls and to schedule regular eye exams.

addition, adults over age 85 have the highest suicide rate of any age range.^{1,2,14} Support groups may be available, but socially isolated individuals are not always aware of them due to lack of exposure and interaction.²⁴ Older adults may adapt to an everyday routine of being alone and subsequently lose interest in and energy for outside activities.²⁴ They may feel too overwhelmed to break out of this routine.²⁴

Nursing considerations

To combat loneliness, isolation, and poor health in older adults, a complete assessment is necessary. Nurses should conduct a health history interview, review medications, complete a head-to-toe physical assessment, and assess for cognitive impairment with the use of a valid screening tool. Psychosocial and physical evaluations allow health-care professionals to understand a

patient's physical and mental health and create goals to improve these areas. Routine assessment of older adults should include signs and symptoms of loneliness, social isolation, and depression.^{4,25}

Standardized tools such as the University of California, Los Angeles (UCLA) Loneliness Scale and the Geriatric Depression Scale determine the severity of loneliness and depression in this population.²⁶⁻²⁸ The

UCLA Loneliness Scale (Version 3) includes 20 items to determine loneliness and has been validated for use with older adults.^{26,27} The long-form Geriatric Depression Scale includes 30 items to evaluate for depression in older adults.²⁸

Nurses should also inquire about patients' social support systems, financial stability, and any previous end-of-life care and documents such as a advance directives or health-care powers of attorney. Nurses can then correlate their findings with evaluations of functional capacity, cognition, mood, fall risk, and polypharmacy.²⁹ Care plans include a list of obtainable physical, environmental, nutritional, and social interventions, but, if older patients feel overwhelmed, they may not participate.^{11,30}

The COVID-19 pandemic has had a substantial impact on quality of life in older adults and the general population.³¹ Additionally, comorbidities and limited social support systems in older adults have created barriers to quality of life in older adults.³² Management of chronic diseases can help older adults improve their quality of life, both physically and socially. For example, cardiovascular and pulmonary disorders can decrease energy levels and physical capabilities, and

neurologic disorders can affect cognition and the ability to safely perform ADLs.^{10,17} Therefore, nurses should educate patients on the importance of adherence to disease management interventions for optimal function and quality of life.

Lab test results can indicate chronic health issues; for example, low albumin levels may indicate poor nutrition, high blood urea nitrogen levels may indicate dehydration, and low hemoglobin levels may indicate anemia.^{33,34} Nurses should also promote hydration and a nutritious diet by encouraging patients to join family and friends for meals and exploring home food delivery or community transportation resources or ride-share opportunities to get to the grocery store.^{15,23}

Based on the assessment, nurses may pursue various interventions, including social services such as the local Area Agency on Aging.³⁵ They may also explore home healthcare service options for older homebound patients. These professionals can subsequently assess and modify patient living conditions for safety, such as removing throw rugs, incorporating adequate lighting, and discussing emergency alert systems.³ If indicated, they should also discuss community adult day-care centers

and local senior centers with patients and their families, as well as possible relocation to a retirement community, assisted living facility, or long-term-care facility, as well as encourage end-of-life discussions.³

Nurses and healthcare professionals are in a position to educate older adult patients about the social support available to them.³ Information about support networks such as exercise groups and community activities can be disseminated via newspapers, flyers, mail, social media, bulletin boards, and local TV.^{1,36} Technologic interventions can also be harnessed to reduce loneliness.¹¹ For example, internet usage provides opportunities for social group interactions among homebound patients.¹¹

Older adults may opt to participate in activities such as part-time employment, volunteer work, bingo, painting, walking, bowling, swimming, yoga, and joining a gym.³⁰ Similarly, animal-assisted therapy (AAT) is a broad term to describe interactions between a person and a highly trained, sensitive animal to help with physical, emotional, and mental health. It represents another option for older adults in improving their quality of life and reducing loneliness.^{20,37,38} These animals may have scheduled visits with an individual, or the individual may own the animal. For example, AAT can be used to pair animals with older adults who require continuous rehabilitation for physical or cognitive function to build self-confidence and self-esteem.^{20,37,38} It may include dogs, cats, pigs, or horses. (See *Benefits of AAT*.)

Interprofessional teams are vital in creating comprehensive and integrated plans of care to address complex chronic health issues in older adults.^{20,22} Various healthcare professionals can help manage older adult patients, including (but not limited to) nurses, physicians, pharmacists,

Benefits of AAT^{37,38,40}

- Provides companionship and reduces social isolation and loneliness among older adults.
- Creates purpose, as having an animal helps older adults feel valued and needed.
- Eases loneliness among older adults who are single or separated from a spouse due to divorce or death.
- Reduces BP, improves sleep patterns, and increases appetite.
- Reduces anxiety and improves cognitive function in older adults.
- Increases physical activity and promotes joint mobility.
- Distracts from issues related to chronic illness, such as pain, immobility, and social isolation.
- Increases social interactions; for example, walking a dog is one way to meet other people.
- Robopets, which are robots that look and move like living animals, may provide an alternative. Research indicates that robopets help older adults through engagement and interaction.

Case study^{4,7,10,13,30,21,26,36}

RD, 71, is a female with rheumatoid arthritis. She was referred for home healthcare services by her PCP after a recent fall. RD has pain and swelling in the joints of her hands and knees (pain level 4 on scale of 0 to 10, with 0 representing no pain and 10 representing the most pain imaginable) and generalized weakness. She has experienced a gradual increase in difficulty with mobility and meal preparation and has had two falls in the past year. Her medication regimen includes ferrous sulfate and p.r.n. acetaminophen. She lives alone since her partner of 30 years died unexpectedly last year and is estranged from her two adult children from a previous marriage. However, she remains close with her younger sister. She and her partner were teachers, as well as professional bowlers and coaches. Below is a sample care plan developed by the home healthcare nurse in collaboration with RD.

Physical	Environmental	Nutritional	Social
<ul style="list-style-type: none"> • Collaborate with the PCP. • Perform a head-to-toe assessment with each visit (three times a week). • Correlate patient signs and symptoms with lab results. • Assess pain levels and monitor for adverse reactions to medications. 	<ul style="list-style-type: none"> • Request prescription from PCP for occupational and physical therapy regarding fall risk and assistive devices to promote mobility, as well as a home safety evaluation. • Move frequently used items within easy reach, and ensure beds and chairs are in the lowest possible position. • Educate on fall prevention including safe ambulation at home wearing shoes or slippers with nonskid soles, remove area rugs and clutter, discuss emergency alert systems, and ensure lighting and handrails have been installed. 	<ul style="list-style-type: none"> • Consult a dietitian. • Encourage an iron-sufficient diet to combat anemia, a calcium-sufficient diet to reduce risk for fractures, and a fiber-sufficient diet to avoid constipation. • Encourage vitamin supplements as prescribed. 	<ul style="list-style-type: none"> • Request prescription from PCP for a medical social worker to discuss RD's grief, share stories about her partner, connect her with community transportation resources, and explore meal delivery services. • Involve RD's sister in the plan of care. • Secure transportation to the bowling alley once a week and explore coaching opportunities, even if she cannot physically bowl. • Encourage participation in local grief support groups and attendance at local senior centers.

physical therapists, respiratory therapists, social workers, dietitians, and exercise instructors. Coordination of care enhances healthcare delivery and promotes optimal patient outcomes; for example, increased emphasis on competency among healthcare professionals to address the needs of older adult patients.^{20,22} Healthcare facilities should explore training and education in older adult care through simulation and professional development. Similarly, nursing programs could explore incorporating interprofessional simulation scenarios into the curriculum to address older adult care, as well as potential nursing specializations in older adult care.

Nurses should ensure their patients' assistive devices such as hearing and ambulatory aids are work-

ing properly. Additionally, patient environments should have optimal lighting, and nurses should provide patient education with a relaxing countenance and demeanor.³⁹ (See *Case study*.)

Addressing the source

People are social beings. The best way to help older adults cope with loneliness and chronic disease is to address and manage the sources of physical and mental disorders. Loneliness and chronic illness are often intertwined, and nurses can support patients in managing their chronic conditions to improve quality of life and/or reduce loneliness. Spending time with older adults in a caring environment helps them achieve self-efficacy and lets them know they are valued. ■

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