

The Psychology of Loneliness in Modern Society

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ABSTRACT

Loneliness is a deeply subjective psychological experience rooted in the perceived gap between desired and actual social connections. In today's rapidly evolving society, it has emerged as a pressing public health concern affecting individuals across all age groups, particularly young adults. This paper explores the historical development, theoretical foundations, and psychological intricacies of loneliness. Drawing from cognitive discrepancy and attachment theories, it examines the psychological and emotional dimensions of loneliness and how it varies across the life span. The influence of culture and technology is analyzed to better understand how societal changes shape individual experiences of isolation. Furthermore, the paper investigates the psychological and physiological effects of loneliness, including its impact on immune function, cardiovascular health, and overall well-being. By synthesizing contemporary research and cross-cultural perspectives, this study emphasizes the multifaceted nature of loneliness and the urgent need for comprehensive, age-sensitive, and culturally informed interventions.

Keywords: Loneliness, psychological health, cognitive discrepancy, attachment theory, social isolation, modern society, young adults, aging, cultural influences.

INTRODUCTION

In contemporary society, loneliness emerges as a pervasive concern affecting individuals from various backgrounds. The United Kingdom's annual Loneliness Experiment, which involved a substantial sample of 55,000 participants in the year 2018, revealed a troubling reality: a quarter of adults often feel lonely, and notably, 40 per cent experience feelings of loneliness occasionally. Among the different age groups, young adults, specifically those ranging from 16 to 24 years, display significantly elevated vulnerability to prolonged loneliness and its adverse consequences. The NHS data for 2017, which was sourced from the UK Government's Community Life Survey, underscored this issue by indicating that nearly a quarter of this particular cohort reported experiencing persistent loneliness. Alarming, some individuals within this group reported experiencing a sense of constant isolation, which can be particularly damaging to their mental health and overall wellbeing. The subjective, unwelcome feeling of lacking desired social connections defines loneliness as a fundamental yet distressing condition that many individuals grapple with today. It represents a profound and troubling disparity between preferred and actual social relationships; that is to say, it highlights the gap between the social interactions people desire and those they are currently experiencing. While a universally accepted definition of loneliness remains elusive and continues to be debated among scholars and mental health professionals, the recognized theoretical framework in psychology emphasizes this incongruence between anticipated and experienced social bonds. This theoretical understanding can help inform strategies to mitigate the loneliness epidemic that is increasingly recognized as a significant public health issue [1, 2].

Historical Perspectives on Loneliness

The past two centuries have brought about continuous and profound changes to social structures, significantly altering the context and experience of loneliness for many individuals. Numerous studies document a striking upward trend in loneliness across recent decades, particularly pronounced from the 1980s onward. Historical parallels can be traced with chroniclers from the late nineteenth and early twentieth centuries who vividly described a growing sense of isolation and anomie within their own

societies. Since the rise of individualism during the Renaissance period, the evolving societal expectations have increasingly informed the emotional experience of loneliness that individuals face today. These multitudes of changes deeply influence personal conceptions of solitude and loneliness, fundamentally altering how these feelings are perceived and experienced. Furthermore, these shifts affect opportunity structures available to individuals, shaping their interactions and sense of belonging. This evolution provides an important historical backdrop for the following discussion of the various dimensions and complexities of this pervasive phenomenon [3, 4].

Defining Loneliness

Genuine loneliness is a profound and intricate internal psychological state that stems from an intense feeling of distress over the lack of sufficient social or intimate connections in one's life. This state often arises from the deep desire for more meaningful connections than are currently present, or from a pervasive dissatisfaction with the existing social relationships one has. It is crucial to understand that this feeling of loneliness differs fundamentally from social isolation, which can be defined as an objective circumstance characterized by having very few social contacts or interpersonal relationships. Interestingly, perceived loneliness can manifest even when one is surrounded by people, particularly when the relationships that do exist fail to provide the desired level of intimacy or satisfy the need for genuine social connection. Social psychologists have thus made a clear distinction between loneliness, which is a subjective experience, and solitude, which is often seen as an externally imposed state of being alone. According to the evolutionary model, loneliness can be understood as an adverse consequence that arises from a notable discrepancy between an individual's actual social connections and the desired layers of a multi-layered social network, which typically ranges from the intimate social base of close friends and family to the larger, more distanced cultural group. Furthermore, exposure to unfamiliar individuals within this broader cultural layer can, through various signaling pathways, provoke the uninsured risk of exclusion. This dynamic can raise feelings of vulnerability, even when one's social network may appear large or adequately populated in terms of numbers [5, 6].

Theories of Loneliness

A broad theoretical approach elucidates a variety of mechanisms contributing to the experience of loneliness in individuals across different ages and stages of life. The cognitive discrepancy model specifically identifies a significant mismatch between the desired social relationships that individuals seek and the actual social connections they are able to form. This model makes a careful distinction between intimate needs, which relate to close, personal relationships, and relational needs, which encompass a broader spectrum of social interactions. It recognizes that personal and situational factors play a crucial role in influencing feelings of loneliness, indicating that context and individual circumstances must be considered. Furthermore, the model highlights various coping strategies aimed at alleviating loneliness, such as social skills training designed to improve interpersonal interactions and enhancement of social support networks that provide individuals with a sense of belonging and connection. In addition to the cognitive discrepancy model, attachment theory, when applied to broader social contexts, reveals how early interpersonal experiences significantly shape an individual's social expectations and feelings of loneliness in adulthood. These formative experiences influence how individuals perceive and react to their relationships throughout their lives. Consequently, these theories collectively help to explain the distinct and varied nature of loneliness experienced by children and adolescents, who may face unique challenges in forming connections. They also shed light on the disregarding of implicit behavioral goals that often occurs during midlife, where individuals may feel a disconnect from societal norms or personal aspirations. Moreover, the theories illuminate how the need for attachment can become reactivated during the aging process, as older adults may seek to reconnect with loved ones or rely on familiar relationships to combat feelings of isolation and loneliness in their later years [7, 8].

Loneliness in Different Age Groups

Although loneliness is a hallmark characteristic of the later stages of old age, it is important to recognize that it may also emerge and manifest at every stage throughout the journey of life and does not exclusively target or affect the elderly population. For example, in middle adulthood, feelings of loneliness may be triggered by an individual's lack of emotional fulfillment and satisfaction with their personal relationships or life circumstances, which can lead to a profound sense of isolation. In contrast, during late adulthood, loneliness may arise due to an individual's decreasing interaction with the surrounding environment and dwindling opportunities to engage socially with others. It is essential to appreciate that all people can suffer, at one time or another in their lives, from loneliness that is caused by

an inability to forge fulfilling and meaningful connections with others. However, different groups of individuals encounter and experience loneliness for various reasons that are unique to their circumstances. Some individuals experience profound loneliness because they have fewer meaningful and intimate relationships than they genuinely desire, making them feel isolated and detached from the world around them. Others may find themselves unable to initiate or maintain relationships for a variety of reasons, including shyness or embarrassment, physical isolation, feelings of inferiority or low self-esteem, or even the lack of essential social skills that are necessary to develop and nurture close bonds. This intricate interplay of factors highlights just how pervasive the experience of loneliness can be across different demographics and stages of life [9, 10].

Cultural Influences on Loneliness

Research on loneliness has predominantly focused on Western populations, and as a result, the complex nature of loneliness and its mental and physical health consequences has remained under-studied in various other regions and cultures. Despite this oversight, it is important to recognize that cultural influences on loneliness and the effects it has on individuals' well-being are substantial and cannot be ignored. Addressing the issue of loneliness adequately relies heavily on the recipients' expectations concerning social interactions, which are inherently culture-dependent and vary greatly across different societies. For example, individuals in North America, particularly women, tend to report experiencing higher levels of loneliness when compared to their East Asian counterparts, who generally seem to report lower incidences of lonely feelings. Although North America is largely characterized by individualism and self-reliance, and East Asia by a more collectivistic approach to society, this apparent paradox can be explained through various underlying factors. Collectivist individuals are often less likely to openly admit to feelings of loneliness due to cultural norms that promote social harmony and interdependence, whereas individualists typically display a lower tolerance for loneliness and may seek to address their feelings actively. Furthermore, individuals from collectivist cultures tend to experience more frequent and enriched social interactions, which can help mitigate the feelings associated with loneliness. Additionally, shifts in economic and cultural roles within societies can significantly modulate basic motivational patterns that individual's experience, ultimately leading to profound psychological consequences that can influence mental health. The stigma attached to loneliness presents itself in different forms across various cultures, thereby offering valuable longitudinal insights into these distinctive cultural differences and highlighting the need for a more comprehensive approach to understanding loneliness globally [11, 12].

The Role of Technology in Loneliness

Technological advancement has transformed digital social connection and enabled access to personal networks, both of which reduce loneliness. Nonetheless, although technologies are part of many people's responses to loneliness, persistence of data scarcity warns against hyperbole about digital connection. Technologies can address the "regulatory loop" of internal thoughts and feelings that protects people from negative social contact but reduces positive ones. They cannot replace face-to-face interaction, and sustaining therapeutic relationships via digital interfaces can be difficult. Embodied technologies such as therapeutic social robots offer company and stimulate social connections. However, poor infrastructure, the digital divide, usability, acceptability and technical competence limit adoption, especially among older adults and the digitally excluded. The relationship between technology and loneliness remains complex, mediating connections with the external world and affecting internal emotions. Substantial research addresses whether technology can alleviate loneliness, but less attention has been paid to broader social, policy and historical implications or the interpretation of solutions in practice [13, 14].

Psychological Effects of Loneliness

Loneliness has increasingly emerged as a significant public health issue or even a pandemic that affects individuals on a global scale, touching lives in numerous ways. Across various age groups and artificial societal boundaries, it is widely recognized and acknowledged that loneliness has considerable, harmful, and negative effects on individual health as well as overall survival in different environments and settings. Notably, the age group that appears to be the most vulnerable to the adverse effects of loneliness is young adults, particularly those who fall between the ages of 16 and 24. This specific demographic often experiences unique and challenging circumstances which contribute to intense feelings of isolation and disconnection from others, making their situation particularly concerning and warranting further attention. The complexities of modern society may exacerbate these feelings, leading to a greater need for support and connection in this critical phase of life [15, 16].

Physical Health Consequences of Loneliness

Research on loneliness highlights two main ways it impacts our physical health. The first focus is on how loneliness affects the immune system, reducing its effectiveness and increasing vulnerability to infections. Studies, including those by Lancaster University, indicate that social isolation leads to immune dysregulation, which enhances the risk of infection. Chen et al. found that both loneliness and social isolation correlate with diminished immune function and increased insensitivity to glucocorticoids. The second area of study explores the relationship between loneliness and cardiovascular risk, originally suggested by Cassel and House. Elevated blood pressure, evident even in young adults, exemplifies this linkage, which also encompasses increased vascular resistance and variations in blood pressure response based on race. According to Hong et al., loneliness relates to heightened mortality rates, diminished physical health, and cognitive decline, adversely affecting physical activity and increasing healthcare costs. Additionally, loneliness and the size of one's social network influence cortisol levels and allostatic load, affecting biological health indicators. Research indicates a tie between the frequency of social contact and lower all-cause mortality. Therefore, loneliness and social isolation significantly influence healthy aging and affect both mental and physical health outcomes. Crespo-Sanmiguel et al. found loneliness connects to psychological and physical health, although this connection may weaken when considering covariates. Particularly, higher loneliness scores tend to correlate with lower psychological health in males, while females often prioritize intimate connections, which may alter the impact of loneliness on their well-being. Although loneliness relates to perceived physical health, this connection diminishes when accounting for depressive symptoms; restrictive criteria might clarify the lack of strong relationships between loneliness and physical health, given that participants often did not exhibit severe health issues or medication needs [17, 18].

Coping Mechanisms for Loneliness

Loneliness triggers various individual responses as coping strategies to manage the distress from wanting social connections. Research highlights cognitive and behavioral methods like reflection, self-development, increased social involvement, and seeking social interaction. While social activities are effective in alleviating loneliness, solitary pursuits may not provide the same benefits and can fail to replace genuine social contact. Situational factors, such as physical limitations, can also restrict participation in social activities, affecting their effectiveness. Strategies to cope may include problem-solving, support-seeking, escape, and social isolation. Evolutionary theories suggest that loneliness, particularly in young adults, indicates the need for social reconnection, leading to heightened awareness of social cues that may cause fears of judgment. Engaging in friendships, both online and offline, is a primary coping mechanism. Interviews with university students reveal that developing effective coping strategies is crucial in addressing loneliness's negative mental health impacts, making community engagement and social support vital resources for managing feelings of loneliness [19, 20].

Community and Social Support

Alongside interpersonal interactions, a profound sense of community and its accompanying network of social support play crucial roles in directly protecting individuals against the pervasive feeling of loneliness. Community, in its essence, represents not only the strength but also the vital importance of social capital at both the group and neighbourhood levels. Social capital itself stems from intricate "social networks, reciprocities, and trust that facilitate sustainable cooperation for mutual benefit" and fundamentally serves as a tangible asset that individuals can 'fall back on' during times of need for various resources, including those that are essential to navigate the challenges of loneliness and actively work to prevent its onset. Moreover, communities that boast a denser network of social activities, as well as activities centred around altruism, are particularly effective in motivating a person to increase and enhance their opportunities for social interactions. Consequently, loneliness is significantly less likely to persist when a well-knit community actively provides more opportunities and strong incentives for meaningful social interaction. It is also important to note that the concept of community extends far beyond merely close interpersonal ties; one may very well reside in a flourishing community that has a high density of social support resources and can still engage with those invaluable opportunities even if they find themselves lacking close family connections or friends. Indeed, communities that exhibit richer social capital have been consistently observed to correlate with notably lower probabilities of experiencing loneliness, underscoring the critical role that community dynamics play in fostering social well-being [21, 22].

Preventing Loneliness

Policies and practices capable of effectively preventing feelings of loneliness within communities and among individuals include a variety of strategies that focus on cultivating meaningful social connections, redesigning the built environment to facilitate interaction, safeguarding social capital within neighborhoods, encouraging volunteering opportunities that foster engagement, and broadening access to support organizations that offer companionship and assistance. The efficacy of these diverse approaches has prompted extensive arguments regarding why any specific policy or practice should be given a privileged position within the comprehensive set of preventive measures aimed at combating loneliness. Yet, the emergence of these strategies as potential remedies, supported by a broad spectrum of evidence highlighting their effectiveness, strengthens the overall perception of their crucial preventive roles in this area. For instance, one effective strategy involves crafting specific initiatives aimed at addressing already low levels of social contact, particularly in the context of loneliness among university students. This approach addresses the critical emphasis within two significant mechanisms deficits of both intimate support and belongingness support which have been noted to underpin the experience of loneliness across all life stages. By addressing these areas, policies can lay the groundwork for improved social engagement and connection, ultimately diminishing the feelings of isolation that many individuals may face [23, 24].

Case Studies on Loneliness

Case studies offer valuable insights into the lived experiences of loneliness across diverse populations and settings. Empirical investigations illustrate the variety of forms loneliness can take and demonstrate how the social stigma associated with loneliness manifests in public discourse. Two complementary studies examine loneliness in educational communities. One contextualises loneliness within a whole-school framework by exploring the roles of school connectedness, social support, and friendship quality. Another focuses more specifically on children's experiences of loneliness, together with profiles of peer victimisation and friendship. Two further studies describe the diversity of young people's experiences of loneliness. One highlights prohibitively strong social norms against the open acknowledgement of loneliness, while the other, utilising social network analysis, identifies different profiles of loneliness and social connectedness in children. Published in 2021, a set of projects from the cassette research and development charity examines loneliness in the United Kingdom, with a particular focus on the COVID-19 pandemic. Another contribution reviews data on the profile and prevalence of loneliness before and after the pandemic, while a companion publication explores the measurement and experience of loneliness in the United Kingdom between April and December 2020. A case study on young adults aged 16 to 24 in deprived areas of London elaborates on the impact of loneliness in one of the groups most vulnerable to the condition [25, 26].

Future Directions in Loneliness Research

Future Studies: Future research efforts should direct attention to the configuration of where, when, and with whom events occur that precipitate loneliness. Future studies should examine the ways in which structural and cognitive perspectives can be integrated and reciprocally useful. Research should also pursue further exploration of how individual differences modulate the experience of loneliness, and undertake a more detailed analysis of the antecedents of loneliness. To develop a more nuanced understanding of the association between macro-level factors and loneliness, it is necessary to broaden the existing dataset. Achieving a thorough and representative view demands that future analyses include individuals from groups, regions, and countries currently underrepresented or excluded. Researchers ought routinely to collect multilevel data on the social network, neighbourhood, and region within which participants are embedded. Many individual-level predictors can be aggregated at higher geographic levels, such as local, regional, and national. Future theoretical and empirical work must also incorporate genuine macro-level factors, for example, the extent to which mental health receives prioritization in a given healthcare system. Data collected repeatedly across multiple years or decades would enable systematic investigations into the causal dynamics linking macro-level determinants to loneliness. Because loneliness influences economic, physical, and psychological well-being, a reciprocal relationship is most plausible; these consequences in turn affect population-wide outcomes such as longevity, healthcare costs, and patterns of political participation [27, 28].

CONCLUSION

Loneliness, as a psychological and societal phenomenon, is not merely the absence of social contact but a complex emotional state influenced by personal expectations, life stages, cultural norms, and technological shifts. Modern society, while more connected digitally, has paradoxically intensified feelings

of social and emotional disconnection across various demographics. Young adults, middle-aged individuals, and the elderly each experience loneliness in distinct ways, often shaped by developmental, relational, or situational challenges. The theoretical models such as the cognitive discrepancy and attachment theories offer valuable frameworks to understand the underlying causes and potential remedies for this condition. Cultural perspectives further reveal that societal norms and values deeply affect how loneliness is experienced, expressed, and addressed. While technology can both mitigate and exacerbate loneliness, its effectiveness depends on access, digital literacy, and the quality of interactions it facilitates. The psychological and physical health consequences of loneliness, from mental distress to impaired immune function and cardiovascular issues, demand a more integrated approach in public health strategies. Addressing loneliness in modern society thus requires not only individualized psychological interventions but also systemic cultural, technological, and policy-driven solutions.

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CITE AS: Kakungulu Samuel J. (2025). The Psychology of Loneliness in Modern Society. EURASIAN EXPERIMENT JOURNAL OF HUMANITIES AND SOCIAL SCIENCES, 7(3):14-20