Serving Deaf Individuals in Rural Communities

Introduction

Deaf individuals who live in rural areas face a different set of challenges from those living in more populated regions. As a result, deaf individuals who live in rural areas require supports and services that address their unique needs.

Rural areas are defined as those outside a metropolitan statistical area. A metropolitan statistical area consists of a city with a population of 50,000 or more plus adjacent areas that are metropolitan in character and are economically and socially integrated into the central city. National data suggest that deaf individuals are more prevalent in rural areas.1, 2

Resource Limitations Affect Deaf Individuals in Rural Areas

• Poverty is particularly challenging in rural areas, with 15% of residents living below the poverty line, compared to 12% of residents in urban areas.3, 4
• In rural areas, service delivery is affected by several factors, including but not limited to the following:
  • Geographic barriers and seasonal problems (e.g., geographic isolation, heavy flooding)
  • Population sparsity
  • Inadequate teacher qualifications and/or preparation5
• A shortage of qualified interpreters is a critical issue in rural areas, where it is especially difficult to attract and retain these professionals.6, 7
• Special education personnel often do not receive adequate training in the use of instructional and assistive technology specific to the population they serve, as regional institutions of higher education frequently are lacking in special education programs or provide limited course work in these areas.8 A lack of funding and underdeveloped infrastructure place additional limitations on efforts to develop such programs.9
• Training on the use of educational technology is important for professionals who work with deaf individuals in rural settings, but it is not always readily available.7 This type of training is crucial for providing student access to coursework, delivering instruction, recommending assistive devices, locating resources, and providing consultative services to students and their families.10, 11, 12, 13
• Deaf individuals in rural areas may be more affected by a lack of information exchange through technological mediums than their urban counterparts.14

Risk Factors for Mental Health and Social Isolation

For the general population, rates of mental health problems in rural areas are comparable to urban areas.13 However, deaf individuals in rural areas face a greater number of mental health risk factors than their hearing counterparts,14 and the impact of mental health disorders in rural areas is more severe than in urban areas due to the following reasons:

• Accessibility: There is a lack of transportation to and from services, an inability to pay for services, and a shortage of interpreters.
Availability: Of the 65 million U.S. residents who live in a “professional shortage area,” 85% of those individuals live in rural areas. This issue is compounded by an even greater scarcity of mental health professionals who are qualified to work with deaf individuals.

Acceptability: Rural communities often hold more stigmatizing views about mental illness and psychotherapy. The impact of stigma is largely related to traditional cultural beliefs and a lack of understanding of mental health issues.

Social isolation is a significant concern for deaf individuals in rural areas. In addition to having a limited social network of individuals who share a preferred communication modality, deaf individuals may also face limited access to electronic communication, such as text messaging and e-mail.

Potential Solutions to Serving Deaf Individuals in Rural Areas

Electronic and Online Technology

- Online technology makes distance learning a viable modality for delivering content in just about any academic area. Virtual high schools and universities offer access to courses that were previously unavailable in smaller or rural schools.
- Distance learning can be accessed through several modalities, such as videoconferencing and web-based courses, overcoming barriers to service delivery and dramatically reducing the impact of time and distance involved with rural education.
- Online technology and distance learning has the potential to alleviate the social isolation experienced by deaf students in rural settings.
- Sign language interpreting services can be provided through video remote interpreters, which can help remediate the interpreter shortage in rural areas.
- With regard to mental health services, computer-based assessment and computer-based therapy can be used for mental health conditions, including depression, anxiety, suicidal feelings, and addiction.
  - Computer-based assessment provides visual presentation of questions and is available in a variety of different languages.
  - Computer-based assessment dramatically reduces therapist time, which reduces resource expenditure associated with seeking mental health services (e.g., transportation, financial cost).
  - Computer-based therapies use web-based, interactive materials that are diverse in format, with some programs approximating elements of face-to-face therapy.

Co-Teaching

Co-teaching is defined as two or more teachers collaborating and jointly delivering academic content, with both individuals taking active roles in teaching a diverse group of students, including students with and without special needs. The use of co-teaching with deaf students in rural settings is supported for several reasons, including the following:

- Co-teaching increases instructional options for students by combining the strengths and expertise of two teaching professionals.
Co-teaching improves program intensity by providing opportunities to receive in-depth instruction because students can become more involved with two educators present.

Co-teaching in blended classrooms reduces stigma for students with special needs, as negative attributes are often associated with students receiving services outside of the classroom.

Co-teaching presents the opportunity to foster mutual support among professionals so that co-teachers can work together to determine and meet student needs.

**Itinerant Teachers**

Itinerant teachers for deaf students travel between schools, providing instruction and services for students and consultations with families and school personnel. Although itinerant teachers have been used extensively for deaf students in rural communities, empirical research on the effectiveness of the itinerant method is sparse. However, the existing research supports the use of the itinerant model as a critical component of inclusive educational practice in rural settings.29, 30, 31

**References**


