Mental Health Issues among Indigenous People: A Global Perspective

Arundhuti Roy¹, Moutushi Bhowmik¹, Anjana Bhattacharjee^{2*}

¹Research Scholar, Department of Psychology, Tripura University, Suryamaninagar, Tripura, India. ²Professor, Department of Psychology, Tripura University, Suryamaninagar, Tripura, India.

Abstract

There are about 476 million indigenous people worldwide, representing around 5,000 cultures. Globally, the people of indigenous communities face a lot of challenges like illegal land dispossession, displacement, climate change, unemployment, and physical illnesses, which increase the risk of developing mental health issues among them. There is a lack of community-specific research in identifying the unique challenges of indigenous people and their effective solutions. The present systematic analysis is an attempt to identify the major mental health issues faced by indigenous people worldwide through the lens of various research works. The article also attempts to unearth various strategies that can improve mental health and well-being. Various search engines like, Elsevier, Google Scholar, ResearchGate, Springer, PubMed, etc. were utilized for the systematic review analysis. A total number of 790 articles were initially identified, out of which 80 articles (since the 1990s) were selected for the fulltext review. The review analysis revealed that worldwide indigenous people encounter many mental health issues, among which depression, suicidal ideation, self-harm behavior, anxiety, stress, substance abuse and PTSD are prominent. For preventing mental illness among the indigenous communities, there is a need for a multifaceted therapeutic model to address their cultural values, practices and community-specific needs, which will, in turn, help them to enhance their overall health and well-being.

ARTICLE INFO

*Correspondence:

Anjana Bhattacharjee anjanabhattacharjee@ tripurauniv.ac.in Professor, Department of Psychology, Tripura University, Suryamaninagar, Tripura, India.

Dates:

Received: 08-03-2025 Accepted: 27-03-2025 Published: 31-03-2025

Keywords:

Indigenous, Mental health, Self-harm behavior, Depression, Anxiety.

How to Cite:

Roy, A., Bhowmik, M., Bhattacharjee, A. (2025). Mental Health Issues among Indigenous People: A Global Perspective. Mind and Society, 14(1): 47-55. doi: 10.56011/mindmri-141-20257

INTRODUCTION

ental health is a state of well-being in which every person realizes his/her own potential, copes with the stresses of life, and is able to lead a productive life (World Health Organization, 2004). Mental health issues like depression, suicide, anxiety, stress, alcohol/substance abuse and other psychological issues are prevalent among the worldwide population, but more specifically among the indigenous population (De Leeuw et al., 2010). The World Health Organization (WHO, 1999) defined indigenous people as individuals who have their origins in ancestral lands and migrate through different nation or state boundaries in a colonial manner. On an estimate, there are about 476 million indigenous people worldwide. These individuals have their own social and cultural groups all over the world and share lands and natural resources wherever they live (World Bank, 2023).

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit https://creativecommons.org/licenses/by-nc-sa/4.0/.

Around 260 million indigenous people live in Asia, with an approx of 700 ethnic groups, languages and tribes (scheduled tribes){Asian Century Institute, 2014). Studies around Southeast Asia have indicated that factors like unemployment, climate change, mining, and land disposition have led them to poor mental health conditions (Tabassum, 2016). India has around 104 million (8.6%) indigenous people and it is said to be the second-largest country in the world (Patel et al., 2018). As a majority of the tribal population in India resides in remote areas, they face poor transportation and medical-healthcare facilities (Kumar et al., 2020), which further leads to health issues like tuberculosis, asthma, shortness of breath, etc. (Thomas et al., 2021). They mostly depend on natural resources for food, medicine and other things for daily usage, but due to drastic natural calamities like floods, drought, and heat waves, their lives are being largely affected (Dani et al., 2015; Sahu et al., 2015; Sharma, 2018).

Millions of indigenous people live in America, of which 13 million are from North and Central America and around 19 million are from South and other lowlands. Studies conducted among the indigenous people of Central and South America reported that poverty, loss of land or land disposition, war and migration had led them to suffer from poor physical and mental health (Pedersen, 1993). Studies also reported poverty, discrimination, unemployment, family violence, family trauma, loss of family members, malnutrition, and loss of lands as risk factors for poor mental health among the Aboriginals of Europe and Australia (Zubrick et al., 2004; Issacs et al., 2010). Moreover, Cianconi et al., (2020) reported that due to migration and land erosion of original lands, suicide rates among the indigenous youths had also increased. Many studies across African countries have reported poor socio-economic conditions, malnutrition, HIV and tuberculosis among the African indigenous population (Okasha, 2002; Uren et al., 2017; World Bank, 1998). Studies conducted around the world reported on the views of indigenous people towards well-being. Theoretically, Burkhart (2019) depicted ecological well-being, i.e., the connection between the environment and traditions among the indigenous population. Further, the indigenous population

is also related to communitarian well-being, i.e., family and community (Cajete, 2005), and cultural well-being, i.e., awareness, principles and practices (Mackean *et al.*, 2022).

The Current Study

Due to social discrimination, poverty, and lack of resources, indigenous people face various health hazards. Numerous researches have been conducted globally, but there is no such comprehensive research work highlighting the status of the mental health of indigenous people across the globe. Thus, amid the insufficiency of literature, the current review analysis is an attempt to fill up this knowledge gap, and to explore various mental health issues faced by the indigenous people globally. It also tries to suggest some approaches for improving mental health and well-being, and this would be predominantly meaningful for researchers, health-care providers, and policymakers to manage and prevent mental illness.

METHOD

Data Sources

The paper reviewed available secondary sources and related articles. Various electronic databases like Elsevier, Google Scholar, ResearchGate, Springer, etc. were used for searching secondary information. Some Government & non-government websites and grey literature were also searched.

Search Strategy

Searches were based on keywords like indigenous, aboriginal, ethnic groups, mental health, prevalence, disorders, etc. Different research papers and websites related to Indigenous communities and their mental health issues were also narratively synthesized, following the inclusion and exclusion criteria (Table 1).

Data Analysis

At first, the search was systematically started with 790 research articles, grey literature and other government websites. After screening the articles and write-ups following the inclusion and exclusion

Table 1: Study inclusion and exclusion criteria

Parameters	Inclusion criteria	Exclusion criteria	
Publication type	Published scholarly journals and articles	a. Book chapters and sectionsb. Conference and dissertation abstracts	
Publication date	1991-2023	Papers published before 1991	
Language	English	Other languages	
Accessibility	Full paper available online	Full paper not available online	

criteria, in total, 710 articles were excluded as those were not found relevant to the present qualitative analysis. The paper finally reviews 80 articles related to indigenous people across the globe, the various challenges they face and their mental health status. Out of the 80 articles, 22 articles were utilized to prepare the introductory part of the paper showing the factors affecting indigenous mental health; 33 articles were used for qualitative review analysis related to the mental health status of the indigenous people and the rest 25 articles were utilized to explore individual as well as community-based approaches/measures to prevent mental illness in a broader context (Figure 1).

DISCUSSION

Section I: Major Mental Health Issues Faced by the Indigenous Population across the Globe

Mental health among the indigenous population is an important issue across the globe. Various research conducted in Asian, American, European, Australian and African countries reported a variety of psychological issues faced by the indigenous or aboriginal population around the world. The major mental health issues faced by the indigenous population are given below:

Depression

Depression is a major mental health issue affecting a large number of people around the globe. Research on aboriginals showed a higher level of depression among the indigenous population of Asian countries (Ansari et al., 2023; Faruk et al., 2021; Singkhorn et al., 2021), including tribal individuals

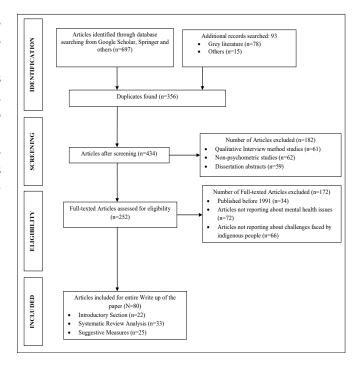


Figure 1: Prisma chart showing the systematic review analysis

of India (Ghosh, 2013; Gopal & Ashok, 2012; Sindhu et al., 2022; Singh et al., 2013). Like Asian research, high level of depression was also found among the indigenous population of America (Firestone et al., 2022; Holter et al., 2023; Lawal et al., 2021; Logie et al., 2021; Servan-Mori et al., 2021) and Australia as well (Haregu et al., 2022; Walker et al., 2019).

Suicidal Ideation, Suicide and Selfharm Behavior

Self-harm behavior and suicide have become a global issue as millions of people are dying by suicide every year. Different research all over the world has indicated high suicidal ideation among indigenous people. Comparative analysis indicated that the risk of suicide was higher among Sami tribes of Europe than that of non-Sami ones (Silviken et al., 2006; Silviken, 2009; Stoor et al., 2015). Some American studies also indicated a higher risk of suicide (Hop Wo et al., 2020), suicide attempt (Kumar & Tjepkema, 2019; Servan-Mori et al., 2021) and suicidal ideation (Firestone et al., 2022) among the American indigenous population. The risk of suicide attempts was also found among the aboriginal people of Canada, where females were found to be more vulnerable (Hajizadeh et al., 2019; Pollock et al., 2016). In contrast, the study of Beautrais and Fergusson (2006) showed a high suicide rate among the males of Maori tribes of New Zealand.

Anxiety

Anxiety is a serious issue faced by indigenous people worldwide. Studies on the Asian indigenous population showed a high prevalence of anxiety (Ansari et al., 2023; Maharana et al., 2022; Sindhu et al., 2022). Likewise, high level of anxiety was found among the indigenous individuals of America (Firestone et al., 2022; Lawal et al., 2021; Servan-Mori et al., 2021) and Europe (Kaiser et al., 2010).

Stress

Stress is a natural reaction towards any situation which we consider as threatening. To some extent, stress is important to achieve a goal, which is known as eustress, but extreme stress can lead to anxiety, irritability, indecisiveness and poor attention. Research on Asian indigenous people (Faruk et al., 2021; Maharana et al., 2022) revealed high stress among them due to their adverse socio-economic conditions. Similar findings were also reported in some American and European literature (Hansen & Sorlie, 2012; Lawal et al., 2021).

PTSD and Trauma-Related Issues

Due to racial discrimination, displacement, poverty and other distressing conditions, the indigenous people face more traumatic experiences and hence they are prone to trauma and stressors related disorders including acute stress disorder, adjustment disorder, PTSD, etc. (Currie et al., 2015; Lewis et al., 2021; Nadew & Tatsioni, 2012; Nasir et al., 2021).

Alcohol and Substance Abuse

Addiction is a global social issue and indigenous people are more vulnerable to it as in many indigenous cultures, usage of alcohol is a part of various religious and social customs and alcohol use is often perceived as culturally accepted behavior. In America and Australia, alcohol, cannabis and other drugs consumption are reported more among the indigenous people (Nadew & Tatsioni, 2012; Nasir et al., 2021). Studies in Asian countries also showed that alcohol, substance abuse as well as betal quid dependency are more common among tribal communities (Chaturvedi & Mahanta, 2004; Sadath et al., 2019).

Other Mental Health Issues

Apart from the above-mentioned mental health issues, there are many other psychological and lifestyle issues faced by the indigenous population worldwide. Some Indian studies depicted poor self-esteem, low academic achievement, aggression and impulsivity among the tribal population (Ghosh, 2013; Singh & Rao, 2018). Similarly, Gopal and Ashok (2012) also reported high attentional issues and thought problems among the tribal adolescents of India. Another American study also revealed poor self-perception, more social isolation, and more sleep related issues among the aboriginals (Froese et al, 2008).

The overall qualitative analysis revealed that the indigenous population mostly suffers from depression followed by suicide and self-harm behavior, anxiety and stress, irrespective of their geographical location (Table 2).

Section II: Strategies to Improve Mental Health and Well-being

Well-being refers to a state of being healthy and socially active. To improve our overall well-being, we need to be physically, mentally, emotionally sound and capable enough to contribute to society. Regular physical exercises or activities like walking, running, swimming, or sports are essential for maintaining overall well-being (Sabri et al., 2023). Being mindful is very crucial in this fast-paced society as it enables an individual to focus on his/her thoughts, feelings,

Table 2: Major mental health issues faced by the indigenous people

Mental health issues	Study reviewed (n = 33)	Percentage (Multiple Findings)
Depression	14	42.4%
Suicide and self-harm behavior	10	30.3%
Anxiety	7	21.1%
Stress	4	12.1%
PTSD/ Trauma	4	12.1%
Alcohol and Substance abuse or dependence	4	12.1%
Others (poor self-esteem, sleep-related issues, etc.)	4	12.1%

emotions, sensations and behavior and be aware of the present situations or surroundings (Beshai et al., 2023; Desjarlais, 2021). Mindfulness practices, like meditation, mindfulness breathing, eating and movement (physical activities and relaxation techniques), along with self-compassion, are fruitful for reducing the symptoms of depression, anxiety, suicidal ideation, aggressiveness, impulsivity and stress on a daily basis (Goldberg et al., 2018). In this regard, studies on indigenous people (Gale, 2020; Nemati et al., 2017) have highlighted the importance of spirituality. Individuals who are creative in nature and engage in creative activities can cope with daily hassles and are less prone to mental problems (Bungay et al., 2023). Further, the practice of journaling is another way to express emotions and thoughts through writing, which is helpful to calm down our minds, as mentioned by various researchers (Keech & Coberly-Holt, 2021; Smyth et al., 2018). Research on indigenous communities also highlighted the importance of engagement in creative activities and journaling (Hodgson et al., 2023; Yurkovich et al., 2012). Likewise, proper sleep habits play an important role in maintaining overall well-being, as poor sleep may lead to depression, aggression, anxiety and poor eating behavior (Lombardero et al., 2019; Palimaru et al., 2022). It is observed that to enhance sleep quality, one must avoid using social media, phone, or other electronic devices, caffeine, or nicotine before going to sleep (Fuligni et al., 2018; Zsila & Reyes, 2023).

Besides these strategies, some of the community-based approaches are also very important to

reduce the prevalence and relapse of mental illness. Awareness programmes on emotional management teach us to become positive towards ourselves (Davydov et al., 2010) and to share our emotions without hesitation (Sorly et al., 2021), which further enhances our self-esteem and resilience. Awareness campaigns are important to raise understanding about the risk factors associated with alcohol and substance abuse, preventing individuals from addictive behaviors (Gaiha et al., 2021; Lim et al., 2023). Various researchers have focused on providing psycho-social therapeutic interventions at the community level, including the indigenous communities (Organista et al., 2006; Renfrey, 1992) having mental health issues. Early diagnosis of mental health problems is significant to provide timely interventions like cognitive restructuring, social skill training, assertiveness training, etc., to reduce dysfunctional thoughts and behaviors like anger issues, impulsivity, temper tantrums, self-harm, etc. (Purdon, 2021). Further, community connection and social integration is crucial for a happy social and personal life (Tsai et al., 2012). In addition, studies have also depicted the importance of the protection of the rights of mentally ill people across the communities (Harpur & Stein, 2018; Patel et al., 2012) for ensuring their well-being, autonomy, dignity, safety, equality and inclusion in the society.

CONCLUSION

Millions of indigenous people across the globe suffer from poor physical and mental health conditions

due to poverty, climate change, land dispossession, and migration. Among the mental health conditions, depression, suicide and, self-harming behavior, anxiety, stress, PTSD, alcohol and substance abuse are prevalent. Lack of education, insufficient mental health care facilities, indulgence in unscientific healing practices, stigma, and superstitions worsen the scenario among the indigenous population.

The mental health crisis is a global concern and to be mentally healthy, one must do regular physical exercise, eat healthy food, have a proper sleep, engage in social activities, express emotions, ask for help whenever needed without hesitation, practice spiritual values and limit excessive use of mobile phones. All these measures are beneficial to reducing anxiety, worry, unrealistic fear, extreme mood variations, loneliness, impulsivity, sadness, grief, low self-esteem and negative self-perception. Moreover, enormous mental health awareness campaigns, along with proper mental health care facilities at every level, are crucial to instigating change. Thus, a comprehensive approach can contribute significantly to eradicating biases towards mental health and fostering a supportive environment for the care and treatment of mentally ill people, irrespective of their geographical or socio-economic variations.

REFERENCES

- Ansari, S. N., Rajkumari, S., Rawat, S., Chandel, S., Devi, N. K., Saraswathy, K. N., & Joshi, P. C. (2023). Psycho-social correlates of depression and anxiety disorder among Bhil indigenous population of India. *Advances in Mental Health*, 21(2), 103-114.
- Asian Century Institute. (2014, November 15). Asia's Indigenous People. https://asiancenturyinstitute.com/society/804-asia-s-indigenous-peoples
- Beautrais, A. L., & Fergusson, D. M. (2006). Indigenous suicide in New Zealand. *Archives of Suicide Research*, 10(2), 159-168.
- Beshai, S., Desjarlais, S. M., & Green, B. (2023). Perspectives of Indigenous University Students in Canada on Mindfulness-Based Interventions and their Adaptation to Reduce Depression and Anxiety Symptoms. *Mindfulness*, 14(3), 538-553.
- Bungay, H., Wilson, C., Dadswell, A., & Munn-Giddings, C. (2023). Arts and creativity: maintaining mental well-being during COVID-19 lockdowns in UK universities. *Journal of Further and Higher Education*, 47(4), 551-562.
- Burkhart, B. Y. (2019). Be as strong as the land that made you: An Indigenous philosophy of well-being through the

- land. Science, Religion and Culture, 6(1), 26-33.
- Cajete, G. A. (2005). American Indian epistemologies. *New directions for student services*, 2005(109), 69-78.
- Chaturvedi, H. K., & Mahanta, J. (2004). Sociocultural diversity and substance use pattern in Arunachal Pradesh, India. *Drug and alcohol dependence*, 74(1), 97-104.
- Cianconi, P., Betrò, S., & Janiri, L. (2020). The impact of climate change on mental health: a systematic descriptive review. *Frontiers in psychiatry*, 11, 74.
- Currie, C., Wild, T. C., Schopflocher, D., & Laing, L. (2015). Racial discrimination, post-traumatic stress and prescription drug problems among Aboriginal Canadians. *Canadian Journal of Public Health*, 106(6), e382-e387.
- Dani, V., Satav, A., Pendharkar, J., Ughade, S., Jain, D., Adhav, A., & Sadanshiv, A. (2015). Prevalence of under nutrition in under-five tribal children of Melghat: A community based cross sectional study in Central India. *Clinical Epidemiology and Global Health*, 3(2), 77-84.
- Davydov, D. M., Stewart, R., Ritchie, K., & Chaudieu, I. (2010). Resilience and mental health. *Clinical psychology review*, *30*(5), 479-495.
- De Leeuw, S., Greenwood, M., & Cameron, E. (2010). Deviant constructions: How governments preserve colonial narratives of addictions and poor mental health to intervene into the lives of Indigenous children and families in Canada. *International Journal of Mental Health and Addiction*, 8, 282-295.
- Desjarlais, S. M. (2021). Adapting a mindfulness-based intervention for depression and anxiety for use with indigenous university students (Doctoral dissertation, Faculty of Arts, University of Regina).
- Faruk, M. O., Ching, U., & Chowdhury, K. U. A. (2021). Mental health and well-being of indigenous people during the COVID-19 pandemic in Bangladesh. *Heliyon*, 7(7).
- Firestone, M., McConkey, S., Beaudoin, E., Bourgeois, C., & Smylie, J. (2022). Mental health and cultural continuity among an urban Indigenous population in Toronto, Canada. *Canadian journal of public health*, 1-10.
- Fuligni, A. J., Arruda, E. H., Krull, J. L., & Gonzales, N. A. (2018). Adolescent sleep duration, variability, and peak levels of achievement and mental health. *Child development*, 89(2), e18-e28.
- Froese, C. L., Butt, A., Mulgrew, A., Cheema, R., Speirs, M. A., Gosnell, C., ... & Ayas, N. T. (2008). Depression and sleep-related symptoms in an adult, indigenous, North American population. *Journal of Clinical Sleep Medicine*, 4(4), 356-361.
- Gaiha, S. M., Gulfam, F. R., Siddiqui, I., Kishore, R., & Krishnan, S. (2021). Pilot community mental health awareness campaign improves service coverage in India. *Community mental health journal*, *57*, 814-827.
- Gale, F. (Ed.). (2020). Spirited practices: Spirituality and the helping professions. Routledge.
- Ghosh, D. (2013). Self-esteem and depression of the tribal and non-tribal students: It's role on academic achievement need. *Indian Journal of Health and Well-being*,

- 4(5), 1042.
- Goldberg, S. B., Tucker, R. P., Greene, P. A., Davidson, R. J., Wampold, B. E., Kearney, D. J., & Simpson, T. L. (2018). Mindfulness-based interventions for psychiatric disorders: A systematic review and meta-analysis. *Clinical Psychology Review*, 59, 52–60.
- Gopal, D. V., & Ashok, A. (2012). Prevalence of emotional and behavioral problems among tribal and non-tribal adolescents. *Journal of the Indian Academy of Applied Psychology*, 38(1), 63-67.
- Hajizadeh, M., Bombay, A., & Asada, Y. (2019). Socio-economic inequalities in psychological distress and suicidal behaviours among Indigenous peoples living off-reserve in Canada. *Cmaj*, 191(12), E325-E336.
- Hansen, K. L., & Sørlie, T. (2012). Ethnic discrimination and psychological distress: a study of Sami and non-Sami populations in Norway. *Transcultural psychiatry*, 49(1), 26-50.
- Haregu, T., Jorm, A. F., Paradies, Y., Leckning, B., Young, J. T., & Armstrong, G. (2022). Discrimination experienced by Aboriginal and Torres Strait Islander males in Australia: Associations with suicidal thoughts and depressive symptoms. Australian & New Zealand Journal of Psychiatry, 56(6), 657-666.
- Harpur, P., & Stein, M. A. (2018). Indigenous Persons with Disabilities and the Convention on the Rights of Persons with Disabilities: An Identity without a Home?. *International Human Rights Law Review*, 7(2), 165-200.
- Hodgson, C., Taylor-Piliae, R., & Rainbow, J. (2023). Understanding the resilience of children living on an American Indian reservation: A mixed methods participatory study. *Journal of Advanced Nursing*.
- Holter, O. G., Goforth, A. N., Pyke-Pierce, K., Aguilar, L. N., & Belcourt, A. (2023). School-based racial microaggressions and depression among Indigenous young adults. *Psychology in the Schools*, 60(1), 255-274.
- Hop Wo, N. K., Anderson, K. K., Wylie, L., & MacDougall, A. (2020). The prevalence of distress, depression, anxiety, and substance use issues among Indigenous post-secondary students in Canada. *Transcultural Psychiatry*, 57(2), 263-274.
- Indigenous Peoples. (2023). The World Bank. https://www.worldbank.org/en/topic/indigenouspeoples
- Isaacs, A. N., Pyett, P., Oakley-Browne, M. A., Gruis, H., & Waples-Crowe, P. (2010). Barriers and facilitators to the utilization of adult mental health services by Australia's Indigenous people: seeking a way forward. *International journal of mental health nursing*, 19(2), 75-82.
- Kaiser, N., Sjölander, P., Liljegren, A. E., Jacobsson, L., & Renberg, E.S. (2010). Depression and anxiety in the reindeer-herding Sami population of Sweden. *International Journal of Circumpolar Health*, 69(4), 383-393.
- Keech, K. N., & Coberly-Holt, P. G. (2021). Journaling for Mental Health. In *Strategies and Tactics for Multidisciplinary Writing* (pp. 39-44). IGI Global.
- Kumar, M. B., & Tjepkema, M. (2019). Suicide among First

- Nations people, Métis and Inuit (2011-2016): Findings from the 2011 Canadian census health and environment cohort (CanCHEC).
- Kumar, M. M., Pathak, V. K., & Ruikar, M. (2020). Tribal population in India: A public health challenge and road to future. *Journal of family medicine and primary care*, 9(2), 508.
- Lawal, M. A., Shalaby, R., Chima, C., Vuong, W., Hrabok, M., Gusnowski, A., ... & Agyapong, V. I. (2021). COVID-19 pandemic: stress, anxiety, and depression levels highest amongst indigenous peoples in Alberta. *Behavioral Sciences*, 17(9), 115.
- Lewis, M. E., Volpert-Esmond, H. I., Deen, J. F., Modde, E., & Warne, D. (2021). Stress and cardiometabolic disease risk for indigenous populations throughout the lifespan. *International journal of environmental research and public health*, 18(4), 1821.
- Lim, D. C., Najafi, A., Afifi, L., Bassetti, C. L., Buysse, D. J., Han, F., ... & Jackson, C. L. (2023). The need to promote sleep health in public health agendas across the globe. *The Lancet Public Health*, 8(10), e820-e826.
- Logie, C. H., Lys, C. L., Sokolovic, N., Mackay, K. I., Donkers, H., Kanbari, A., ... & Loppie, C. (2021). Contextual factors associated with depression among Northern and Indigenous adolescents in the Northwest Territories, Canada. *Global Mental Health*, 8, e22.
- Lombardero, A., Hansen, C. D., Richie, A. E., Campbell, D. G., & Joyce, A. W. (2019). A narrative review of the literature on insufficient sleep, insomnia, and health correlates in American Indian/Alaska native populations. *Journal of environmental and public health*, 2019.
- Mackean, T., Shakespeare, M., & Fisher, M. (2022). Indigenous and non-indigenous theories of well-being and their suitability for well-being policy. *International Journal of Environmental Research and Public Health*, 19(18), 11693.
- Maharana, N., Goswami, R., & Behera, D. K. (2022). Stress and Anxiety among the Tribal Undergraduate Students of Odisha during Covid-19 Pandemic.
- Nadew, G. T., & Tatsioni, T. (2012). Exposure to traumatic events, prevalence of posttraumatic stress disorder and alcohol abuse in Aboriginal communities. *Rural and remote health*, 12(4), 1-12.
- Nasir, B. F., Black, E., Toombs, M., Kisely, S., Gill, N., Beccaria, G., ... & Nicholson, G. (2021). Traumatic life events and risk of post-traumatic stress disorder among the Indigenous population of regional, remote and metropolitan Central-Eastern Australia: a cross-sectional study. *BMJ open*, 11(4), e040875.
- Nemati, E., Habibi, M., Ahmadian Vargahan, F., Soltan Mohamadloo, S., & Ghanbari, S. (2017). The role of mindfulness and spiritual intelligence in students' mental health. *Journal of Research and Health*, 7(1), 594-602.
- Okasha A. (2002). Mental health in Africa: the role of the WPA. World psychiatry: official journal of the World Psychiatric Association (WPA), 1(1), 32–35.
- Organista, K. C. (2006). Cognitive-behavioral therapy with

- Latinos and Latinas.
- Palimaru, A. I., Dong, L., Brown, R. A., D'Amico, E. J., Dickerson, D. L., Johnson, C. L., & Troxel, W. M. (2022). Mental health, family functioning, and sleep in cultural context among American Indian/Alaska Native urban youth: A mixed methods analysis. *Social Science & Medicine*, 292, 114582.
- Patel, V., Kleinman, A., & Saraceno, B. (2012). Protecting the human rights of people with mental illnesses: a call to action for global mental health. *Mental Health and Human Rights: Vision, Praxis, and Courage*, 362-375.
- Patel, V., Saxena, S., Lund, C., Thornicroft, G., Baingana, F., Bolton, P., ... & UnÜtzer, J. (2018). The Lancet Commission on global mental health and sustainable development. *The lancet*, *392*(10157), 1553-1598.
- Pedersen, D. (1993). Mental Health Amongst the Indigenous Peoples of Latin America. Working Paper No. 19. Series on International Mental and Behavioral Health. Cambridge, MA: Center for the Study of Culture and Medicine, Program in Medical Anthropology, Harvard University.
- Pollock, N. J., Mulay, S., Valcour, J., & Jong, M. (2016). Suicide rates in Aboriginal communities in Labrador, Canada. *American journal of public health*, 106(7), 1309-1315.
- Purdon, C. (2021). Cognitive restructuring. In A. Wenzel (Ed.), Handbook of cognitive behavioral therapy: Overview and approaches (pp. 207–234). American Psychological Association. https://doi.org/10.1037/0000218-008
- Renfrey, G. S. (1992). Cognitive-behavior therapy and the Native American client. *Behavior Therapy*, 23(3), 321-340.
- Sabri, S., Rashid, N., & Mao, Z. X. (2023). Physical Activity and Exercise as a Tool to Cure Anxiety and Posttraumatic Stress Disorder. *Mental Illness*, 2023.
- Sadath, A., Jose, K., & Jiji, K. M. (2019). Factors influencing Betel quid chewing among indigenous tribal population in Wayanad, Kerala: A qualitative study. *Kerala Journal of Psychiatry*, 32(1), 17-24.
- Sahu, D., Nair, S., Singh, L., Gulati, B. K., & Pandey, A. (2015). Levels, trends & predictors of infant & child mortality among Scheduled Tribes in rural India. *The Indian Journal of Medical Research*, 141(5), 709.
- Servan-Mori, E., Gonzalez-Robledo, L. M., Nigenda, G., Quezada, A. D., González-Robledo, M. C., & Rodríguez-Cuevas, F. G. (2021). Prevalence of depression and generalized anxiety disorder among Mexican indigenous adolescents and young adults: challenges for healthcare. *Child Psychiatry & Human Development*, *52*, 179-189.
- Sharma, D. C. (2018, October). "Global warming Impacts on India to be huge." India Water Portal.
- Silviken, A. (2009). Prevalence of suicidal behaviour among indigenous Sami in northern Norway. *International journal of circumpolar health*, 68(3), 204-211.
- Silviken, A., Haldorsen, T., & Kvernmo, S. (2006). Suicide among indigenous Sami in arctic Norway, 1970–1998. European journal of epidemiology, 21, 707-713.
- Sindhu, K. V., Chandrashekarappa, S. M., Thambad, M., Boralingiah, P., Gopi, A., & Murthy, M. N. (2022). Anxiety

- and depression among elderly tribal population of HD Kote, Mysuru, India: Prevalence and factors associated with it. *Archives of Mental Health*, 23(1), 40-46.
- Singh, P. K., & Rao, V. R. (2018). Explaining suicide attempt with personality traits of aggression and impulsivity in a high risk tribal population of India. *PloS one*, 13(2), e0192969.
- Singkhorn, O., Apidechkul, T., Pitchalard, K., Moonpanane, K., Hamtanon, P., Sunsern, R., ... & Thepsaw, J. (2021). Prevalence of and factors associated with depression in the hill tribe population aged 40 years and older in northern Thailand. *International Journal of Mental Health Systems*, *15*(1), 1-9.
- Smyth, J. M., Johnson, J. A., Auer, B. J., Lehman, E., Talamo, G., & Sciamanna, C. N. (2018). Online Positive Affect Journaling in the Improvement of Mental Distress and Well-Being in General Medical Patients With Elevated Anxiety Symptoms: A Preliminary Randomized Controlled Trial. *JMIR mental health*, *5*(4), e11290. https://doi.org/10.2196/11290
- Sørly, R., Mathisen, V., & Kvernmo, S. (2021). "We belong to nature": Communicating mental health in an indigenous context. *Qualitative Social Work*, 20(5), 1280-1296.
- Stoor, J. P. A., Kaiser, N., Jacobsson, L., Renberg, E. S., & Silviken, A. (2015). "We are like lemmings": making sense of the cultural meaning (s) of suicide among the indigenous Sami in Sweden. *International Journal of Circumpolar Health*, 74(1), 27669.
- Tabassum, R. (2016). Health Paradox of Indigenous people in Bangladesh: Unravelling aspects of mass media campaigns in changing health behaviors to prevent non-communicable diseases. South East Asia Journal of Public Health, 6(2), 17-22.
- Thomas, B. E., Thiruvengadam, K., Rani, S., Gangadhar Rao, V., Yadav, R., Paluru, V., ... & Kaur, H. (2021). Understanding health care-seeking behaviour of the tribal population in India among those with presumptive TB symptoms. *PLoS One*, *16*(5), e0250971.
- Tsai, J., Harpaz-Rotem, I., Pietrzak, R. H., & Southwick, S. M. (2012). The role of coping, resilience, and social support in mediating the relation between PTSD and social functioning in veterans returning from Iraq and Afghanistan. *Psychiatry: Interpersonal & Biological Processes*, 75(2), 135-149.
- Uren, C., Möller, M., van Helden, P. D., Henn, B. M., & Hoal, E. G. (2017). Population structure and infectious disease risk in southern Africa. *Molecular Genetics and Genomics*, 292, 499-509.
- Walker, R. J., Campbell, J. A., Dawson, A. Z., & Egede, L. E. (2019). Prevalence of psychological distress, depression and suicidal ideation in an indigenous population in Panamá. Social psychiatry and psychiatric epidemiology, 54, 1199-1207.
- World Bank. African Development Indicators 1998/99. Washington: World Bank; 1998. https://doi.org/10.1596/978-0-1952-1118-4

- World Health Organization. (1999). *The health of indigenous peoples* (No. WHO/SDE/HSD/99.1). World Health Organization.
- World Health Organization. (2004). *Promoting mental health:* Concepts, emerging evidence, practice: Summary report. World Health Organization.
- Yurkovich, E. E., Hopkins, I., & Rieke, S. (2012). Health-seeking behaviors of Native American Indians with persistent
- mental illness: Completing the circle. Archives of psychiatric nursing, 26(2), e1-e11.
- Zsila, Á., & Reyes, M. E. S. (2023). Pros & cons: impacts of social media on mental health. *BMC psychology*, 11(1), 201.
- Zubrick, S. R., Dudgeon, P., Gee, G., Glaskin, B., Kelly, K., Paradies, Y., ... & Walker, R. (2004). Social determinants of Aboriginal and Torres Strait Islander social and emotional well-being. *Working together*, 75.