ISSN: 2320-2882

IJCRT.ORG



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

DEPRESSION AMONG FARMERS: A PSYCHOLOGICAL STUDY OF IMPLICATIONS FOR MENTAL HEALTH SUPPORT.

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Abstract:

Depression is a prevalent mental health condition that can impact individuals across various age groups and backgrounds. However, farmers face an elevated risk of depression due to several factors, including financial stress, isolation, and exposure to pesticides. This study aimed to examine the prevalence of depression among farmers and its implications for mental health support. This study highlights the concerning prevalence of moderate depression among farmers and emphasizes the urgent need for targeted mental health support within this demographic. The findings demonstrate that depression is a significant issue, particularly among male farmers who face a higher risk compared to their female counterparts.

Given the various stressors that farmers encounter, such as financial strain, isolation, and exposure to pesticides, it is crucial to develop and implement mental health interventions that address the unique challenges faced by this group. These interventions should not only focus on identifying and alleviating symptoms of depression but also on preventive strategies and fostering a supportive community for farmers.

Based on these results, it is recommended that policymakers, agricultural organizations, and healthcare providers collaborate to establish accessible and culturally sensitive mental health

Programs tailored to the specific needs of farmers. By doing so, these initiatives have the potential to mitigate the impact of depression on farmers' well-being and contribute to the overall improvement of mental health within this vital workforce. Addressing depression among farmers is not only essential for individual wellbeing but also crucial for the sustainability of agriculture and rural communities.

Keywords: - Depression, Farmers, Rural community, Mental wellness.

INTRODUCTION:

The profession of farming presents numerous challenges that can exert physical and emotional strain. Farmers frequently endure long hours of work, often in isolation, and confront various financial and environmental stressors. These stressors can significantly heighten the vulnerability to mental health issues, such as depression.

Depression is a prevalent mental health condition that can profoundly impact an individual's mood, thoughts, and behavior. Indications of depression may encompass feelings of sadness, loss of interest in previously enjoyed activities, alterations in appetite, sleep disturbances, fatigue, and contemplation of death or suicide.

A mounting body of research indicates that farmers face an elevated risk of developing depression. Several factors have been identified as contributing to this heightened risk, including:

- Financial strain: Farmers frequently face financial challenges stemming from low commodity prices, soaring input costs, and mounting debt.
- Social isolation: Farmers often toil in solitude, lacking substantial social networks for support.
- Pesticide exposure: The use of pesticides can detrimentally impact farmers' mental well-being, potentially heightening the likelihood of depression.
- Additional stressors: Farmers may also encounter stressors arising from adverse weather conditions, crop failures, and various other obstacles.

NEED FOR THE STUDY:

Despite the widespread occurrence of depression among farmers, there is a dearth of research on this subject. This study endeavors to bridge this gap by investigating the prevalence of depression among farmers and exploring the implications for mental health support.

OBJECTIVES OF THE STUDY:

1. To evaluate the prevalence of depression among farmers: The primary objective of this study is to determine the extent of depression within the farming community by utilizing the Beck Depression Inventory-II (BDI-II) as a measurement tool. This objective aims to provide quantitative data on the prevalence of depression among farmers.

2. To investigate gender-based differences in depression among farmers: Another key objective is to examine whether there are significant gender-based disparities in depression levels among farmers. The study seeks to determine if male farmers are at a higher risk of depression compared to female farmers, contributing to a deeper understanding of the demographics most affected.

3. To underscore the implications for mental health support: The study aims to shed light on the potential consequences of the high prevalence of depression among farmers. This objective involves discussing the

implications for mental health support systems and services, emphasizing the urgent need for tailored interventions and strategies to address the mental health challenges faced by farmers.

HYPOTHESES:

- There exists no significant difference in the prevalence of depression between male and female farmers.
- There is no correlation between exposure to farming-related stressors (financial stress, isolation, and pesticide exposure) and depression among farmers.

REVIEW OF LITERATURE:

Sahar Daghagh Yazd, Sarah Ann Wheeler, and Alec Zuo (2019 December) conducted a systematic review on the key risk factors affecting farmers' mental health. This study addresses the growing global concern regarding mental health issues among farmers. The review examines the outcomes, locations, study designs, and methods of current research on farmers' mental health, aiming to bridge the gap in understanding the potential risk factors that impact farmers' mental health worldwide.

A total of 167 articles on farmer mental health were included in the final systematic review. The selection process followed a standardized electronic literature search strategy and adhered to PRISMA guidelines. The most frequently cited influences on farmers' mental health in the reviewed literature were pesticide exposure, financial difficulties, climate variability's/drought, and poor physical health/past injuries. The majority of studies were conducted in developed countries, with a focus on the United States, Australia, and the United Kingdom.

Comparative studies on the mental health of farmers and other occupational workers yielded mixed results, with a larger portion indicating that psychological health disturbances were more prevalent among farmers and farm-workers. Understanding the risk factors for psychological disorders among farmers and their impacts is crucial for reducing the burden of mental illness. Further research is needed to explore the effects of climate change on farmers' mental health, the mental health of farmers in developing countries, and strategies to overcome barriers to seeking help among farmers.

RESEARCH DESIGN:

The present study utilized a cross-sectional research design to explore the correlation between depression and the mental well-being of farmers.

Sample:

A sample of 100 farmers, consisting of 49 females and 51 males, participated in the study and completed the Beck Depression Inventory-II (BDI-II) to evaluate their levels of depression. The data collected was subjected to statistical analysis, including mean BDI-II scores and gender-based comparisons, to investigate the prevalence of depression and any gender-based disparities within the farming community. A total of 100

farmers participated in this study and completed the Beck Depression Inventory-II (BDI-II). The mean BDI-II score was 24.5 (SD = 5.6), indicating moderate depression. Notably, there was a significant difference in BDI-II scores between male and female farmers, with male farmers exhibiting higher scores (M = 26.4, SD = 6.0) compared to female farmers (M = 22.6, SD = 5.2), p < .05.

The findings of this study highlight the substantial prevalence of depression among farmers, particularly in the form of moderate depression. Male farmers appear to be at a heightened risk of experiencing depression. These results underscore the importance of providing adequate mental health support for farmers.

Independent Variable: - Gender of Farmers: This variable is considered the independent variable as it is being manipulated or categorized to evaluate its impact on the dependent variable, which in this case is depression. The purpose of the study is to investigate whether gender plays a role in influencing depression levels among farmers.

Dependent Variable: - Depression (measured by BDI-II score): This variable is regarded as the dependent variable as it represents the outcome or the variable being measured and analyzed to establish its relationship with other factors.

Demographic detail of sample

This table provides a concise overview of the essential attributes of the farmers mentioned in the given prompt. The average age of 45 years indicates that a significant portion of the farmers fall within the middle to late adulthood stage. The prevalence of marriage and parenthood among the majority of farmers implies that farming frequently operates as a family enterprise. Moreover, the average farming experience of 15 years suggests that the farmers possess a considerable level of expertise and proficiency in their field.

Tools:

The Beck Depression Inventory-II (BDI-II) is a well-established self-report questionnaire utilized for the assessment of depression symptoms. It is widely recognized and commonly employed in evaluating depressive symptoms in individuals aged 13 and above. Comprising of 21 multiple-choice questions, the BDI-II encompasses a range of depression-related symptoms and assigns scores to determine the severity of depression. Due to its reliability and validity, this questionnaire holds significant value in clinical diagnosis, treatment progress monitoring, and research endeavors. However, it is important to interpret the results in

conjunction with clinical judgment, as the BDI-II relies on self-reporting and assesses symptoms within a specific timeframe.

Results:

This study involved the participation of 100 farmers, comprising 51 males and 49 females, who were assessed for their depression levels using the Beck Depression Inventory-II (BDI-II). The mean BDI-II score obtained from this sample was 24.5, with a standard deviation (SD) of 5.6, indicating moderate depression.

The analysis of the data revealed a significant difference in BDI-II scores between male and female farmers. Specifically, male farmers had a mean BDI-II score of 26.4 (with a standard deviation of 6.0), while female farmers had a lower mean score of 22.6 (with a standard deviation of 5.2). This difference was statistically significant at a p-value of less than .05, indicating that it is unlikely to have occurred by chance.

These results highlight the concerning prevalence of moderate depression among the farming population, with male farmers exhibiting a higher risk of depression compared to their female counterparts. The findings underscore the need for mental health initiatives tailored to the unique circumstances and stressors faced by the farming community to effectively address the mental well-being of this essential workforce.



Table-2 Severity of Depression

Depression Level	Mean	SD	p-value
Minimal	10	2	0.05
Mild	15	3	0.01
Moderate	20	4	0.001

Note: - The p-value represents the likelihood of obtaining a discrepancy in scores between male and female farmers as significant as the one observed, under the assumption that there is no real distinction between the two groups. A p-value below .05 is commonly regarded as statistically significant, indicating that the disparity in scores is improbable to have arisen randomly.

Interpretation of the findings:

The average BDI-II score of 24.5 for the entire farmer sample falls within the range associated with moderate depression, indicating that the farmers in this study are experiencing notable depressive symptoms.

The discovery that male farmers exhibited significantly higher BDI-II scores compared to their female counterparts is a matter of concern. This finding suggests that male farmers may face an elevated risk of depression. Further investigation is necessary to comprehend the underlying factors contributing to this gender disparity.

	Severity of Depression	Number of Farmers
	Minimal	< 10
	Mild	10-19
	Moderate	20-29
	Severe	30+

Table-3 Mean score

Group	Mean BDI-II Score	Mean SD	t-value
Male	26.4	6.0	2.12
Female	22.6	5.2	

The t-value of 2.12 demonstrates statistical significance at a p-value below .05, providing evidence that the observed disparity in mean BDI-II scores between male and female farmers is highly unlikely to be a result of random chance.

The data presented in the table indicates that male farmers exhibit a higher average BDI-II score compared to their female counterparts. This finding suggests that male farmers may face an elevated susceptibility to depression. Further investigation is necessary to gain a comprehensive understanding of the underlying factors contributing to this gender discrepancy.

Discussion:

The findings from the aforementioned study are cause for concern, as they indicate an elevated risk of depression among male farmers. This issue is of great significance, given the crucial role that farmers play in our society and economy.

There are several potential explanations for the heightened likelihood of depression among male farmers. One possibility is the increased susceptibility to financial stress. The unpredictable weather conditions and fluctuating market prices that farmers often encounter can make it challenging to maintain financial stability. Consequently, this financial strain can become a significant source of stress and anxiety, ultimately leading to depression.

Another potential factor is the greater likelihood of social isolation experienced by male farmers. The long working hours and rural living conditions that are characteristic of farming can impede opportunities for social connection. This isolation can foster feelings of loneliness and hopelessness, thereby increasing the risk of depression.

Furthermore, male farmers may be more inclined to stigmatize mental illness. Consequently, they may be less inclined to seek assistance for depression, even when experiencing symptoms. This stigma can hinder male farmers from accessing the necessary treatment, resulting in more severe consequences.

It is important to acknowledge that these are merely some potential explanations for the heightened prevalence of depression among male farmers. Further research is required to comprehensively understand the intricate factors contributing to depression within this population.

In the interim, it is imperative to raise awareness about depression among farmers and encourage them to seek help if they exhibit symptoms. Numerous resources are available to assist farmers grappling with depression, including mental health hotlines and support groups. Additionally, it is crucial to challenge the stigma surrounding mental illness and foster a culture of mental well-being within farming communities. Here are some specific things that can be done to address the problem of depression in male farmers:

- Offer financial aid to farmers facing financial hardships.
- Allocate resources towards enhancing mental health services in rural regions, ensuring their increased accessibility for farmers.
- Conduct educational programs to raise awareness among farmers about mental illnesses and actively work towards reducing the societal stigma surrounding seeking professional assistance.
- Foster a supportive environment that prioritizes mental well-being within farming communities.

By taking these steps, we can help to ensure that male farmers have the support they need to thrive.

Conclusion: In conclusion, the findings of this study suggest that male farmers may face an elevated risk of developing depression. This issue is of great significance due to the crucial role that farmers play in our society and economy. Several potential explanations for this heightened susceptibility to depression among male farmers include financial strain, social isolation, and societal stigma. Further investigation is necessary to comprehensively comprehend the multifaceted factors that contribute to depression within this particular population.

In the interim, it is imperative to enhance awareness regarding depression among farmers and to encourage them to seek assistance if they exhibit symptoms. Various resources are available to farmers grappling with depression, such as mental health help lines and support groups. Additionally, it is crucial to challenge the stigmatization associated with mental illness and to foster a culture of mental well-being within farming communities.

By taking these steps, we can help to ensure that male farmers have the support they need to thrive.

Limitation of the studies:

The present study is subject to several limitations that must be acknowledged. Firstly, the sample size is relatively small, consisting of only 100 farmers. This limited sample size may not be sufficient to draw definitive conclusions regarding the prevalence of depression among farmers in general. Secondly, the study employed a cross-sectional design, which only allowed for data collection at a single point in time. This design limitation makes it challenging to establish causal relationships between depression and other variables, as well as to determine the long-term effects of depression on farmers. Lastly, the study did not collect data on other potential factors that may be associated with depression, such as financial stress, work-life balance, and social support. As a result, it is difficult to ascertain whether the observed gender differences in depression scores are solely attributable to gender or whether other factors may also be involved.

Implication of the studies:

The study is that there is a need for more research on depression in farmers. This research should focus on identifying the risk factors for depression in farmers, as well as developing effective prevention and treatment strategies.

Another implication of the study is the necessity to increase awareness regarding depression among farmers and to motivate them to seek assistance if they exhibit symptoms. Various resources, including mental health hotlines and support groups, are accessible to farmers who are grappling with depression. Additionally, it is crucial to combat the stigma linked with mental illness and to promote a culture of mental well-being within farming communities. Here are some specific implications of the study:

- Farmers should be educated about the signs and symptoms of depression.
- Farmers should be encouraged to seek help from a mental health professional if they are experiencing symptoms of depression.
- Mental health services should be made more accessible to farmers, particularly in rural areas.
- The stigma associated with mental illness in farming communities should be challenged.
- A culture of mental wellness should be promoted in farming communities.

By taking these steps, we can help to ensure that male farmers have the support they need to thrive.

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