

Depression, Anxiety and Stress (DAS), and **Workplace Spirituality among Pharmacists** and Pharmacy Assistants in Perlis



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1. Introduction

- Depression, anxiety and stress (DAS) are common types of mental disorders that influence individual productivity, sleep behaviour as well as motivation to work.1
- Workplace spirituality ensures employees to have an inner life and are nourished by meaningful work that takes place in the context of community.²
- This study aimed to determine the prevalence of DAS among pharmacists and pharmacy assistants working in Perlis and the associations with sociodemographic factors and workplace spirituality.

2. Materials & Methods

Study design	Cross-sectional study
Study settings	Public and private healthcare settings in Perlis
Study population	Pharmacist and pharmacy assistants

Inclusion Criteria:

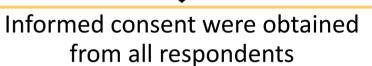
Pharmacists or pharmacy assistants working in Perlis

Exclusion Criteria:

Subject diagnosed with depression and/or anxiety

Duration	January – March 2019		
Sampling method	Universal sampling		
Sample size	n=250		
Study instrument	A validated self-administered questionnaire containing 52 questions.		
	Part A	Sociodemographic	
	Part B	DASS-21 ³	
	Part C	Workplace Spirituality ⁴	

Eligible respondents were screened for inclusion criteria



Self- administered questionnaires answered by respondents



Figure 1: Flow of study

3. Results

Response rate = 95.2%; total respondents, n=238.

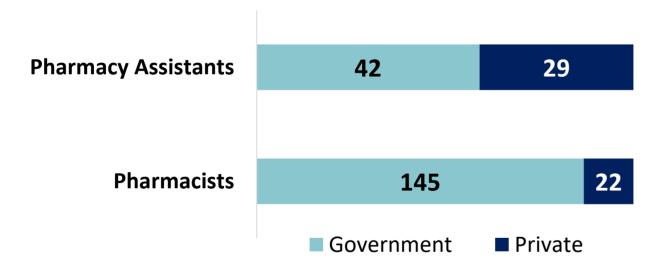


Figure 2: Distribution of pharmacists and pharmacy assistants in government and private settings

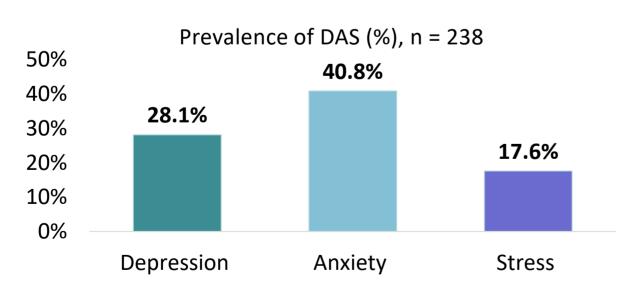


Figure 3: The prevalence of DAS among pharmacists and pharmacy assistants working in Perlis

Table 1: Factors significantly associated with DAS

Variable	Depression	Anxiety	Stress		
Factors significantly associated with the outcome variable (p<0.05)*	 Age (p=0.041) Working experience (p=0.030) Occupation (p=0.003) Sleep time (p=0.020) 	 Age (p=0.025) Working experience (p=0.021) Race (p=0.027) Occupation (p=0.034) 	 Age (p=0.034) Working experience (p=0.031) Working hours (p=0.042) 		

*One-way ANOVA

4. Discussion & Conclusion

- Mental illness is a major concern in healthcare industries.
- Poor mental health conditions may lead to reduced job performance and resulting in low-quality patient care.⁵
- The result of this study showed that the prevalence of depression and anxiety among pharmacists and pharmacy assistants are concerning.
- Depressive symptoms were common among pharmacist and pharmacist assistants with a prevalence rate of 28.1%, compared to only 4.3 % of the general adult population in Perlis.6
- Age and working experience were significantly associated with depression, anxiety and stress (p<0.05).
- Workplace spirituality was reported to be associated with psychological well-being and inversely influencing stress.7 However, it was not significantly associated with depression, anxiety and stress in this study.
- Early recognition and effective interventions such as providing appropriate mental health support to the healthcare workers at their workplace is essential.
- Further studies with advanced analysis could performed for more conclusive outcomes.

5. Acknowledgements

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6. References

- 1. Yeshaw Y, Mossie A. Depression, anxiety, stress, and their associated factors among Jimma University staff, Jimma, Southwest Ethiopia, 2016: a cross-sectional study. Neuropsychiatric disease and treatment. 2017;13:2803.
- 2. Ashmos DP, Duchon D. Spirituality at work: A conceptualization and measure. Journal of management inquiry.
- 2000 Jun;9(2):134-45. 3. Ramli M, Ariff MF, & Zaini Z. Translation, validation and psychometric properties of Bahasa Malaysia version of
- the Depression Anxiety and Stress Scales (DASS). ASEAN Journal of Psychiatry 2007;8 (2):82-89.
- 4. Campbell JK, Hwa YS. Workplace spirituality and organizational commitment influence on job performance among academic staff. UKM Journal of Management. 2014;40.
- Johnson J., Hall L.H., Berzins K., Baker J., Melling K., Thompson C. Mental healthcare staff well-being and burnout: A narrative review of trends, causes, implications, and recommendations for future interventions. Int. J. Ment. Health Nurs. 2018;27:20-32.
- healthcare demand, and health literacy—Key Findings. 2019. 2020.

Institute for Public Health. National Health and Morbidity Survey (NHMS): Non-communicable diseases,

7. Mahipalan M, Sheena S. Workplace spirituality, psychological well-being and mediating role of subjective stress: A case of secondary school teachers in India. 2019.