Nasir A Ali / Elixir Psychology 115 (2018) 49863-49867

Available online at www.elixirpublishers.com (Elixir International Journal)

Psychology

Elixir Psychology 115 (2018) 49863-49867



Depression among Adult in Jazan Region, Jizan, Saudi Arabia, 2017

Nasir A Ali

Assistant Prof. of Public Health, Faculty of Public Health and Tropical Medicine, Jazan University, Saudi Arabia, 2017.

ARTICLE INFO Article history:

By the

Received: 20 December 2017; Received in revised form: 10 February 2018; Accepted: 20 February 2018;

Keywords

Adult, Depression, Jazan Region, Saudi Arabia.

ABSTRACT

By the year 2020 depression would be the second major cause of disability adjusted life years lost, as reported by the World Health Organization. Depression is a mental illness which causes persistent low mood, a sense of despair, and has multiple risk factors. Its prevalence in primary care varies between 15.3-22%, with global prevalence up to 13% and between 17-46% in Saudi Arabia. Despite several studies that have shown benefit of early diagnosis and cost-savings of up to 80%, physicians in primary care setting continue to miss out on 30-50% of depressed patients in their practices. METHODS: This descriptive cross sectional study was conducted at Jazan region ,Saudi Arabia aiming at estimating point prevalence of depression among healthy adults, data was collected by using standardized of PHO-9 questionnaire. Collected data was analyzed by using SPSS ver. 20. RESULTS: About 347 subject adults of age 20 up to 60 years old were participated in this study, 49% were male and 51% were female, About 347 subject adults of age 20 up to 60 years old were participated in this study, 49% were male and 51% were female, majority (70%) within the age group from 30 - 40 years old, 65 % were single and 62% were students. The study indicated that about only 15% of subjects had no symptoms of depression while 85% of subjects had symptoms of depression varies from minimal symptoms to moderate major depression, where 30% had Minimal symptoms, 27% had mild major depression and 28% had moderate major depression.

© 2018 Elixir All rights reserved.

Introduction

Depression is a common mental health disorder, affecting more than 350 million people of all ages worldwide, according to the World Health Organization (WHO). In 2001, the WHO identified depression as the fourth leading cause of disability and premature death in the world. It is projected to become the leading cause of burden of disease by 2030. By the year 2020 depression would be the second major cause of disability adjusted life years lost, as reported by the World Health Organization. Depression is a mental illness which causes persistent low mood, a sense of despair, and has multiple risk factors. Its prevalence in primary care varies between 15.3-22%, with global prevalence up to 13% and between 17-46% in Saudi Arabia. Despite several studies that have shown benefit of early diagnosis and cost-savings of up to 80%, physicians in primary care setting continue to miss out on 30-50% of depressed patients in their practices. Addressing the growing unmet need for developing better understanding of psychiatric diseases including major depressive disorder (MDD) in Saudi Arabia. A recent study published in the Journal of Clinical Psychiatry highlighted the large gap in the Middle East region between the number of people needing and actually receiving treatment for depression. Furthermore, the World Health Organization notes more than 75 percent of people with depression in developing countries are inadequately treated, with mental health one of the most neglected, yet essential, development issues in achieving the United Nations' Millennium Development Goals one and five. Demonstrating the local burden, in Saudi Arabia, more than 201,000 disabilityadjusted life years (DALYs) are lost from depression in a year. DALYs is a measure of overall disease burden, expressed as the number of years of potential life lost due to premature death and the years of productive life lost due to disability.

Methods:

This cross-sectional study was conducted at Jazan Region, Jizan. About 347 adults of age 20–65 years were selected randomly, This descriptive cross sectional study was conducted at Jazan region. Data were collected using PHQ-2 and PHQ-9 Arabic version validated questionnaires for depression screening [42]. Other relevant demographic and personal data were also collected including age, gender, profession, social class and marital status, self-administered questionnaire were distributed online from 15 – 31 of March, 2017. Collected data were analyzed by using SPSS ver. 20

The PHQ-2 and PHQ-9 (Table 1) were analyzed in terms of calculating the severity scores for each question, for presence of depression symptoms over the last 2 weeks. The score of severity of depression varied between 0 (not present at all), 1 (present in several days), 2 (present more than half the days) and 3 (present nearly every day). The severity score of PHQ-2 was calculated and ranged between 0–6 points. Also, the severity score of PHQ-9 ranged between 0–27 points. The scores for PHQ-9 were used to determine the presence of depression and its severity depend on the following score ranges: 1–4 minimal depression, 5–9 mild, 10–14 moderate, 15–19 moderate to severe, and 20–27 severe [43]. For statistical analysis in our study, a person with minimal score (1–4) on PHQ-9, was not considered has

© 2018 Elixir All rights reserved

'depressed', and those with score ≥ 10 (moderate - severe) were categorized needing medical treatment for cost-analysis. For PHQ-2, presence or absence of depression was based on a score of 3 and above out of 6 on the screening instrument [44]. Table 1 and 2

PHQ-9	Points
No syndrome	0-4
Minimal syndrome	5-9
Major depression / mild	10 - 14
Major depression / moderate	15 - 19
Major depression / severe	> 20

The data was analyzed for all questions estimating frequencies, percentages, means and standard deviations, where applicable. The PHQ-9 scores were used along with various demographic variables, for comparisons, using statistical tests including Chi-square ant test.

Results

Table 1. shows the distribution of subjects according

1	to the gender $N = 34'$							
	Gender	Fr.	%					
	Male	171	49.3					
	Female	176	50.7					

 Table 2. shows the distribution of subjects according

1	to the age group $N = 347$							
	Age Group	Fr.	%					
	> 20 years	27	7.7					
	20 - 30	232	66.9					
	30 - 40	52	15.0					
	40 - 50	29	8.4					
	50-60	7	2.0					

 Table 3. shows the distribution of subjects according

to the marital sta	atus N	l = 34'
Marital Status	Fr.	%

	-	
Single	227	65.4
Married	120	34.6

Table 4. shows the distribution of subjects according to

the profession N = 347.

· · · ·		
Profession	Fr.	%
Student	214	61.6
Employee	117	33.8
hosehold	16	4.6

Table 6 . shows the distribution of subjects according to the syndrome of depression N = 347.

to the synarome of ac	pression		
PHQ-9	Fr.	Fr.	%
No syndrome	0-4	53	15.3
Minimal syndrome	5-9	103	29.8
Major depression / mild	10 - 14	93	26.9
Major depression / moderate	15 - 19	98	28.0
Major depression / severe	> 20	0	0
Total		347	100.0

Table 7 .shows the distribution of subjects according to the PHQ-2* & PHQ-9 test N = 347.

		Fr.	%
1.	Loss of interest	259	66.9
2.	Feeling depressed	291	75.2
3.	Trouble sleeping.	238	61.5
4.	Feeling tired.	310	80.1
5.	Poor appetite or eating.	242	62.5
6.	Loss of self-esteem.	229	59.2
7.	Low level of concentration.	183	47.3
8.	Low voice or edgy.	111	28.7
9.	Suicidal ideation.	85	22.0



Figure 1. shows the distribution of subjects according to the syndrome of depression and gender.



Figure 2. shows the distribution of subjects according to the syndrome of depression and marital status.

Patient health questionnaire PHQ 2* & 9: screening instrument for depression

For la been probl	ast 2 weeks how often have you bothered by any of the following lems?	Nearly everyday	More than half days	Several days	Not at all
1.	Loss of interest	0	1	2	3
2.	Feeling depressed	0	1	2	3
3.	Trouble sleeping.	0	1	2	3
4.	Feeling tired.	0	1	2	3
5.	Poor appetite or eating.	0	1	2	3
6.	Loss of self-esteem.	0	1	2	3
7.	Low level of concentration.	0	1	2	3
8.	Low voice or edgy.	0	1	2	3
9	Suicidal ideation	0	1	2	3

Table 5 . shows the distribution of subjects Socio-demographic characteristics and their associations with depression

N = 347

N = 347.											
				Minimal		Minor		Moderately		Major	
		No syr	nptoms	symptor	symptoms symptoms		ns	severe		severe	
		Fr.	%	Fr.	%	Fr.	%	Fr.	%	Fr.	%
	Male	18	10.8	47	28.1%	49	29.3	53	31.7%	0	0
Gender	Female	17	10.5%	50	30.9%	43	26.5%	52	32.1%	0	0
	student	17	9.2%	56	30.4%	35	31.5%	58	31.5%	0	0
Professional	employee	14	10.9%	37	28.7%	34	26.4%	44	34.1%	0	0
	household	35	10.6%	4	25.0%	4	25.0%	5	31.2%	0	0
	Single	18	14.0%	41	31.8%	32	24.8%	38	29.5%	0	0
Marital Status	Married	17	8.5%	56	28.0%	60	30.0%	67	33.5%	0	0
	low	4	16.7%	7	29.2%	6	25.0%	7	29.2%	0	0
Social class	Medium	30	10.1%	88	29.6%	82	27.6%	97	32.7%	0	0
	high	1	12.5%	2	25.0%	4	50.0%	1	12.5%	0	0

49864



Figure 3. shows the distribution of subjects according to the syndrome of depression and profession.



the syndrome of depression and social class.

Discussion

About 347 subject adults of age 20 up to 60 years old were participated in this study, 49% were male and 51% were female, majority (70%) within the age group from 30 - 40 years old, 65 % were single and 62% were students. The study indicated that only 15% of subjects had no symptoms of depression while 85% of subjects had symptoms of depression varies from minimal symptoms to moderate major depression, where 30% had Minimal symptoms, 27% had major depression and 28% had moderate major mild depression with the average of 28%. This finding is greator to to that reported by Al Ibrahim et al., in their systematic review in 2010 [19] and an other study conducted in 2007 (Moataz M et al 2007) while anothes study conducted for adults found that the prevalence was 49.9%, of which 31% were mild, 13.4% moderate, 4.4% moderate-severe and 1.0% severe cases (Waleed Al-Qadhi 2017).

Our findings provide no gender gender differences in the prevalence and presentation of depressive symptoms, where this finding is opposite to another study which found difference regarding to gender Our study found that there were no A significant relationship between depression and gender . Different findings was reported in many studies either local [(Moataz M et al 200718, 20, 22, 23] or international [4, 11, 52].

In our study we also found no significant relationship of depressive symptoms with other demographic variables such as; age, profession, marital status and social class, this findings was similar to many international studies [4, 16, 18, 21],

In Saudi Arabia, prevalence has been estimated in several studies, with rates varying in different populations, age groups, times, and geographic locations. Psychiatric morbidity in primary care was estimated in 1995 around 30-46% of the visiting patients [17]. In 2002, depression and anxiety disorders were noted around 18% among adults in central Saudi Arabia [18]. Al Ibrahim et al., in 2010 showed an overall prevalence of 41% in a systematic review on depression [19]. El Rufaie et al., noted a 17% prevalence of

depression among residents of Dammam [20]. Al Qahtani et al., in Asir reported a 27% prevalence of depression in the year 2008 [21]. Abdul Wahid et al. in 2011, reported an overall prevalence of depression nearing 12%, with 6% as severe cases, in the south-eastern region [22]. In Riyadh Becker et al., found depression prevalence to be 20% in primary care settings [23, 24].

Saudi Arabia has a high prevalence of depression, and as population grows, along with rising risk factors of depression such as chronic disease, stress of modernization, sedentary life style and social isolation, coupled with pre-existing stigmas of having a mental health disorder, paucity of psychiatrist and resources supporting mental health, the direct and indirect costs of depression are expected to rise [26]. In Saudi Arabian health care system in general and primary care settings in particular, data regarding cost of treatment of depression are rare to find. No Saudi studies regarding the cost of treatment, lost productivity and/or monetary benefit of screening for depression were found upon literature review.

United States Preventive Services Task Force (USPSTF) has recommended screening elderly, adults and adolescents 12– 18 years of age for depression [4, 33, 34]. Ultra-short screening instrument, Patient Health Questionnaire (PHQ-2) asking two simple questions about mood and anhedonia, is as effective as longer screening instruments, such as the Beck Depression Inventory (BDI) or Zung Depression Scale (ZDS) [32, 35, 36]. PHQ-9 is one of the most common instruments used for depression screening, and it is increasingly being used for confirmation of a positive PHQ-2 result. The PHQ-9 is valid, takes two to five minutes to complete [4, 37, 38].

References:

1. BetterMedicine. Depression. BetterMedicine. 2012, Availablefrom: http://www.bettermedicine.com/topic/depress ion/,

2. familydoctor.org.editorial-staff: Depression, Overview FamilyDoctor.org. 2011, [updated 01/2011]; Available from: http://familydoctor.org/familydoctor/en/diseases-conditions/depression.html,**Google Scholar**

3. Simon GE, VonKorff M, Piccinelli M, Fullerton C, Ormel

J: An international study of the relation between somatic symptoms and depression. N Engl J Med. 1999, 341 (18): 1329-1335. View ArticlePubMedGoogle Scholar

4. DOUGLAS M, MAURER DM, Carl R: Screening for depression. Am Fam Physician. 2012, 85 (2): 139-144. **Google Scholar**

5. Pomerantz JM: Screening for Depression in Primary Care MedscapeNews.2005, Available from: http://www.medscape.c om/viewarticle/511167, **Google Scholar**

6. Bethesda: Table 1: prevalence of depressive illness. Health Services/Technology Assessment Text. 2005, 3Google Scholar

7. WHO: The World Health Report: 2001: Mental health: new understanding, new hope. Edited by: Haden A, Campanini B. 2001, Geneva: World Health Organization, 30-Google Scholar

8. Narrow WE, Rae DS, Robins LN, Regier DA: Revised prevalence estimates of mental disorders in the United States: using a clinical significance criterion to reconcile 2 surveys' estimates. Arch Gen Psychiatry. 2002, 59 (2): 115-123.View Article PubMed Google Scholar

9. Stewart WF, Ricci JA, Chee E, Hahn SR, Morganstein D: Cost of lost productive work time among US workers with depression. JAMA. 2003, 289 (23): 3135-3144. **View Article PubMed Google Scholar** 10. Coyne JC, Fechner-Bates S, Schwenk TL: Prevalence, nature, and comorbidity of depressive disorders in primary care. Gen Hosp Psychiatry. 1994, 16 (4): 267-276. **View** Article PubMed Google Scholar

11. Ayuso-Mateos JL, Vazquez-Barquero JL, Dowrick C, Lehtinen V, Dalgard OS, Casey P, Wilkinson C, Lasa L, Page H, Dunn G, Wilkinson G, ODIN Group: Depressive disorders in Europe: prevalence figures from the ODIN study. Br J Psychiatry. 2001, 179: 308-316. View Article PubMed Google Scholar

12. Andersen I, Thielen K, Bech P, Nygaard E, Diderichsen F: Increasing prevalence of depression from 2000 to 2006. Scand J Public Health. 2011, 39 (8): 857-863.**View Article PubMed Google Scholar**

13. Muhammad Gadit AA, Mugford G: Prevalence of depression among households in three capital cities of Pakistan: need to revise the mental health policy. PLoS One. 2007, 2 (2): e209-View Article PubMed PubMed Central Google Scholar

14. Mirza I, Jenkins R: Risk factors, prevalence, and treatment of anxiety and depressive disorders in Pakistan: systematic review. BMJ. 2004, 328 (7443): 794-View Article PubMed PubMed Central Google Scholar

15. Luni FK, Ansari B, Jawad A, Dawson A, Baig SM: Prevalence of depression and anxiety in a village in Sindh. J Ayub Med Coll Abbottabad. 2009, 21 (2): 68-72. **PubMed Google Scholar**

16. Flamerzi S, Al-Emadi N, Kuwari MGA, Ghanim IM, Ahmad A: Prevalence and determinants of depression among primary health care attendees in Qatar 2008. World Family Medicine Journal. 2010, 8 (2): 3-7. **Google Scholar**

17. Faris EA, Hamid AA: Hidden and conspicuous psychiatric morbidity in Saudi primary health care. Arab J Psychiatry. 1995, 6 (2): 162-175. **Google Scholar**

18. Al-Khathami AD, Ogbeide DO: Prevalence of mental illness among Saudi adult primary-care patients in Central Saudi Arabia. Saudi Med J. 2002, 23 (6): 721-724. **PubMed Google Scholar**

19. ALIBRAHIM O, AL-SADAT N, ELAWAD N: Gender and risk of depression in Saudi Arabia, a systematic review and meta-analysis. Journal of Public Health in Africa. 2010, 1 (1):**Google Scholar**

20. El-Rufaie OE, Albar AA, Al-Dabal BK: Identifying anxiety and depressive disorders among primary care patients: a pilot study. Acta Psychiatr Scand. 1988, 77 (3): 280-282. **View Article PubMed Google Scholar**

21. Alqahtani MM, Salmon P: Prevalence of somatization and minor psychiatric morbidity in primary healthcare in Saudi Arabia: a preliminary study in Asir region. J Family Community Med. 2008, 15 (1): 27-33.**PubMed PubMed Central Google Scholar**

22. Abdelwahid HA, Al-Shahrani SI: Screening of depression among patients in family medicine in Southeastern Saudi Arabia. Saudi Med J. 2011, 32 (9): 948-952. **PubMed Google Scholar**

23. Becker S, Al Zaid K, Al FE: Screening for somatization and depression in Saudi Arabia: a validation study of the PHQ in primary care. Int J Psychiatry Med. 2002, 32 (3): 271-283. **View Article PubMed Google Scholar**

24. Becker SM: Detection of somatization and depression in primary care in Saudi Arabia. Soc Psychiatry Psychiatr Epidemiol. 2004, 39 (12): 962-966. View Article PubMed Google Scholar

25. Chisholm D, Sanderson K, Ayuso-Mateos JL, Saxena S: Reducing the global burden of depression Population-level

analysis of intervention cost-effectiveness in 14 world regions. The British Journal of Psychiatry. 2004, 184 (5): 393-403.**View Article PubMed Google Scholar**

26. Hidaka BH: Depression as a disease of modernity: explanations for increasing prevalence. J Affect Disord. 2012, 140(3):205214. View Article PubMed PubMed Central Google Scholar

27. Simon GE, VonKorff M: Recognition, management, and outcomes of depression in primary care. Arch Fam Med. 1995, 4 (2): 99-105. **View Article PubMed Google Scholar**

28. Mishler EG: The Discourse of Medicine: Dialectics of Medical Interviews. 1984, Westport, Connecticut: Greenwood Publishing Group, 1984, 211-Google Scholar

29. Eisenberg L: Treating depression and anxiety in the primary care setting. Health Aff (Millwood). 1992, 11 (3): 149-156. View Article Google Scholar

30. Sturm R, Meredith LS, Wells KB: Provider choice and continuity for the treatment of depression. Med Care. 1996, 34 (7): 723-734. **View Article PubMed Google Scholar**

31. van den Berg M, Smit F, Vos T, van Baal PH: Costeffectiveness of opportunistic screening and minimal contact psychotherapy to prevent depression in primary care patients. PLoS One. 2011, 6 (8):e22884View Article PubMed PubMed Central Google Scholar

32. Gilbody S, House AO, Sheldon TA: Screening and case finding instruments for depression. Cochrane Database Syst Rev. 2005, 4: CD002792**Google Scholar**

33.U.S., Preventive, Services, Task, Force: Screening for depression in adults: recommendation statement. AHRQ Publication No. 10-05143-EF-2; December 2009 [cited July 12,2011];Availablefrom: http://www.uspreventiveservicestas kforce.org/uspstf09/adultdepression/addeprrs.htm,

34. U.S., Preventive, Services, Task, Force: Screening and treatment for major depressive disorder in children and adolescents: recommendation statement. AHRQ Publication No. 09-05130-EF-2; March, 2009 [updated March, 2009AccessedJuly12,2011];Availablefrom: http://www.uspre ventiveservicestaskforce.org/uspstf09/depression/chdeprrs.ht m.

35. Arroll B, Khin N, Kerse N: Screening for depression in primary care with two verbally asked questions: cross sectional study. BMJ. 2003, 327 (7424): 1144-1146. View Article PubMed PubMed Central Google Scholar

36. Whooley MA, Avins AL, Miranda J, Browner WS: Casefinding instruments for depression. Two questions are as good as many. J Gen Intern Med. 1997, 12 (7): 439-445. View Article PubMed PubMed Central Google Scholar

37. Spitzer RL, Williams JBW, Kroenke K: Validation and utility of a self-report version of PRIMEMD - the PHQ primary care study. JAMA. 1999, 282: 1737-1744. View Article PubMed Google Scholar

38. Nease DE, Maloin JM: Depression screening: a practical strategy. J Fam Pract. 2003, 52 (2): 118-124. **PubMed Google Scholar**

39. Barrett B, Byford S, Knapp M: Evidence of cost-effective treatments for depression: a systematic review. J Affect Disord. 2005, 84 (1): 1-13. View Article PubMed Google Scholar

40. Valenstein M, Vijan S, Zeber JE, Boehm K, Buttar A: The cost-utility of screening for depression in primary care. Ann InternMed.2001,134(5):345360. View Article PubMed Google Scholar

41. Whooley MA: To screen or not to screen? Depression in patients with cardiovascular disease. J Am Coll Cardiol.

49866

2009, 54 (10): 891-893.View Article PubMed Google Scholar

42. Spitzer R, Williams J, Kroenke K: Patient health questionnair (PHQ) screeners. Pfizer Inc; [cited Feb 12, 2011]; Available from: http://www.phqscreeners.com,

43. Kroenke K, Spitzer RL, Williams JB: The PHQ-9: validity of a brief depression severity measure. J Gen Intern Med. 2001, 16 (9): 606-613. View Article PubMed PubMed Central Google Scholar

44. Kroenke K, Spitzer RL, Williams JB: The patient health questionnaire-2: validity of a two-item depression screener. MedCare.2003,41(11):12841292. ViewArticle PubMed Google Scholar

45. Bank TW: Countries and Economies. 2013, Saudi Arabia: TheWorldBankGroup,Availablefrom: http://data.worldbank.org/country/saudi-arabia,Google Scholar

46.SAVE: Suicide Awareness Voices of Education, Global Cloud.2013,Availablefrom: http://www.save.org/index.cfm, Google Scholar

47. Luppa M, Heinrich S, Angermeyer MC, Konig HH, Riedel-Heller SG: Cost-of-illness studies of depression: a systematic review. J Affect Disord. 2007, 98 (1–2): 29-43. View Article PubMed Google Scholar

48. Greenberg PE, Kessler RC, Birnbaum HG, Leong SA, Lowe SW, Berglund PA, Corey-Lisle PK: The economic burden of depression in the United States: how did it change between 1990 and 2000?. J Clin Psychiatry. 2003, 64 (12): 1465-1475. **View Article PubMed Google Scholar**

49. Chisholm D, Sanderson K, Ayuso-Mateos JL, Saxena S: Reducing the global burden of depression: population-level analysis of intervention cost-effectiveness in 14 world regions. Br J Psychiatry. 2004, 184: 393-403. **View Article PubMed Google Scholar** 50. Diyya: The Supreme Judicial Council. 2013, Available from http://www.scj.gov.sa/Diyya,**Google Scholar**

51. Al-Shammari SA, Al-Subaie A: Prevalence and correlates of depression among Saudi elderly. Int J Geriatr Psychiatry. 1999, 14 (9): 739-747. View Article PubMed Google Scholar

52. Shim RS, Baltrus P, Ye J, Rust G: Prevalence, treatment, and control of depressive symptoms in the United States: results from the National Health and Nutrition Examination Survey (NHANES), 2005–2008. J Am Board Fam Med. 2011, 24 (1): 33-38. View Article PubMed PubMed Central Google Scholar

53. Mumford DB, Saeed K, Ahmad I, Latif S, Mubbashar MH: Stress and psychiatric disorder in rural Punjab. A community survey. Br J Psychiatry. 1997, 170: 473-478. View Article PubMed Google Scholar

54. Mumford DB, Nazir M, Jilani FU, Baig IY: Stress and psychiatric disorder in the Hindu Kush: a community survey of mountain villages in Chitral, Pakistan. Br J Psychiatry. 1996, 168 (3): 299-307. View Article PubMed Google Scholar

55. Ali BS, Rahbar MH, Naeem S, Tareen AL, Gul A, Samad L: Prevalence of and factors associated with anxiety and depression among women in a lower middle class semi-urban community of Karachi, Pakistan. J Pak Med Assoc. 2002, 52 (11): 513-517. **PubMed Google Scholar**

56. Husain N, Chaudhry IB, Afridi MA, Tomenson B, Creed F: Life stress and depression in a tribal area of Pakistan. Br J Psychiatry. 2007, 190: 36-41. **View Article PubMed Google Scholar**

57. Maimanee TA, Al-Hazmi S: Relationship between blood cholesterol level and acute depression. J Egypt Soc Parasitol. 2009, 39 (2): 653-663. **PubMed Google Scholar**