

Case Study of Five Female Saudi Patients

المصدر: المجلة المصرية للدراسات النفسية

الناشر: الجمعية المصرية للدراسات النفسية

المؤلف الرئيسي: الشعلان، لطيفة عثمان إبراهيم

مؤلفين آخرين: الصقية، الجوهرة ابراهيم(م. مشارك)

المجلد/العدد: مج25, ع89

محكمة: نعم

التاريخ الميلادي: 2015

الشهر: أكتوبر

الصفحات: 19 - 1

رقم MD: 1013105

نوع المحتوى: بحوث ومقالات

اللغة: English

قواعد المعلومات: EduSearch

مواضيع: الاضطرابات النفسية، الانزلاق الغضروفي، المشكلات

الصحية، نساء سعوديات

رابط: http://search.mandumah.com/Record/1013105

© 2020 دار المنظومة. جميع الحقوق محفوظة. هذه المادة متاحة بناء على الاتفاق الموقع مع أصحاب

هذه المادة متاحة بناء على الإتفاق الموقع مع أصحاب حقوق النشر، علما أن جميع حقوق النشر محفوظة. يمكنك تحميل أو طباعة هذه المادة للاستخدام الشخصي فقط، ويمنع النسخ أو التحويل أو النشر عبر أي وسيلة (مثل مواقع الانترنت أو البريد الالكتروني) دون تصريح خطي من أصحاب حقوق النشر أو دار المنظومة.

ألم الظهر المزمن والقلق والإكتئاب دراسة حالة لخمس نساء سعوديات

د. لطيفة الشعلان أستاذ مشارك، قسم علم النفس استاذ مشارك، قسم علم النفس كلية التربية، جامعة الأميرة تورة بنت عبدالرحمن، الرياض د. الجوهرة الصقيه أستاذ مشارك، قسم علم النفس كلية التربية، جامعة الأميرة نورة بنت عبدالرحمن، الرياض

اللخص:

هدفت الدراسة الحالية إلى بحث العوامل النفسية لدى خمس نساء سعوديات يعانين من ألم الظهر المزمن غير المسبب بالانزلاق الغضروفي أو المشكلات الصحية الأخرى، ويمثلن فئات عمرية وخلفيات حضارية وإقتصادية اجتماعية، وتقافية مختلفة.

تم تطبيق أسلوب دراسة الحالة على النساء الخمس من خلال مقابلات شخصية دورية أجريت في الفترة الممتدة ما بين أبريل ٢٠١١ حتى مارس ٢٠١٢.

أشاريت النتائج إلى أن جميع الحالات تعاني من الاكتتاب بدرجات مختلفة تتراوح من الشديد إلى المترسط وكذلك من انخفاض جودة الحياة. كما أشارت النتائج إلى أن أربع حالات من الخمس يعانين من اضطراب الوظيفة الجنمية. إضافة إلى ذلك، فإن الاكتتاب ربما يتوسط العلاقة بين ألم الظهر وكل من جودة الحياة والوظيفة الجنسية. لكن لم تتوصل الدراسة سوى إلى علاقة ضعيفة بين ألم الظهر والقلق.

أما فيما يتعلق بعوامل الشخصية، فإن درجات عامل العصابية كانت دالة في أربع حالات من الخمس.

تمت مناقشة النتائج في ضوء الدراسات السابقة والإطار الثقافي الاجتماعي للحالات المدروسة.

- ___Chronic Back Pain, Anxiety, and Despression: ACase Study of five __ survey. Mod Rheumatol, 24(2): 343-348.
 - 54-Yoshida, K. & kato, S. (2011) Cases of Low Back Pain in Psychiatry and Their Diagnostic Problems. *JMAJ*, 54 (2): 2112-2116
 - 55 Yilmaz, E., Dedeli, O. (2012) Effect of physical and psychosocial factors on occupational low back pain. Health Science Journal, 6 (4): 598-609

Medicine 2012; 13: 204-214 Wiley Periodicals, Inc.

- 45-Ramírez-Maestre C, Esteve R, López AE. (2008). Cognitive appraisal and coping in chronic pain patients. Eur J Pain, 12(6):749-56.
- 46- Shah, H., Lakhan, R., Dipti, J.(2011) Incidence of depression in chronic low-back pain A hospital based study. *Health line*, 2 (2): 35-40.
- 47-Sagheer MA, Khan MF, Sharif S.(2013) Association between chronic low back pain, anxiety and depression in patients at a tertiary care centre. J Pak Med Assoc 2,63(6):688-90.
- 48 Tousignant-Laflamme, Y. & Marchand, S. (2006) Sex differences in cardiac and autonomic response to clinical and experimental pain in LBP patients. *European journal of pain*, 10 (7):603-614.
- 49-Tunisian, A. (2002). Anxiety and depression in a sample of divorced and non-divorced
 In the holy city of Mecca, Master Thesis submitted to Umm Al Qura University /College of Education, Kingdom of Saudi Arabia.
- 50- Viggers, M., Lorna, C., Marie, L. Caltabiano. (2012). Psychological Factors affecting the functioning of Australian adults with chronic pain. *Nursing and Health Sciences*, 14: 508-513.
- 51-Wade, J., & Price, D. (2000). Nonpathological factors in chronic pain: Implications for assessment and treatment. In R. Gatchel, & J. Weisberg, *Personality characteristics of patients with pain* (89-107). Washington, D.C. American Psychological Association.
- 52-World Health Organization. (WHO). (2001). The World Health Report 2001-Mental Health: New Understanding, New Hope. Geneva World Health Organization.
- 53-Yamada, K., Matsudaira, K., Takeshita, K., Oka, H., Hara, N. & Takagi, Y. (2014). Prevalence of low back pain as the primary pain site and factores associated with low health-related quality of life in a large Japanese population: a pain-associated cross-sectional epidemiological
- المجلة المصرية للدراسات النفسية العدد ٨٩ المجلد الخامس والعشرون أكتوير ١٠١ = (١٧)=

_Chronic Back Pain, Anxiety, and Despression: ACase Study of five _

- 35- Mok C.L., Lee I.F-K. (2008). Anxiety, depression and pain intensity in patients with low back pain who are admitted to acute care hospitals. *Journal of Clinical Nursing*, 17: 1471-1480.
- 36-Mokdad AH, Jaber S, Aziz MIA, AlBuhairan F, AlGhaithi A, AlHamad NM, et al. (2014)The state of health in the Arab world, 1990–2010: an analysis of the burden of diseases, injuries, and risk factors. *Cross Ref*, 383(9914):309–320.
- 37-Maigne JY, Chatellier G: Assessment of sexual activity in patients with back pain compared with patients with neck pain. Clin Orthop Relat Re, 385:82-87
- 38-McCracken LM & Vowles KE (2008). A prospective analysis of acceptance and values in patients with chronic pain. *Health Psychology*, 27: 215-220.
- 39-Moldovan, A., Ioana A. onac, L., vantu, M., szentagotai, A., onac, L. (2009). Emotional distress, pain catastrophizing and expectancies in patients with low back pain. *Journal of Cognitive and Behavioral Psychotherapies*, 9 (1): 83-93.
- 40-Manchikanti, L., Pampati, V., Beyer, C., Damron, K., Barnhill RC.(2002) Evaluation of psychological status in chronic low back pain: comparison with general population. *Pain Physician* 5:149-155
- ²1-Mngoma, N., Corbie're, M., Stevenson, J. (2008) Pain Profiles and Psychosocial Distress Symptoms in Workers with Low Back Pain. *Physiotherapy Canada*, 60(3): 239-245
- 42- Mangerud, W., Bjerkeset O., Lydersen, S., Indredavik, M. (2013) Chronic pain and pain-related disability across psychiatric disorders in a clinical adolescent sample. *BMC Psychiatry*, 13:272
 - 43-Nitch, S., & Boon, K. (2004). Normal personality correlates of chronic pain subgroups. *Journal of Clinical Psychology in Medical Settings*, 11(3): 203-209.
- 44-Paul Campbell, PhD, Kelvin P. Jordan, PhD, and Kate M. Dunn, PhD.(2012) The Role of Relationship Quality and Perceived Partner Responses with Pain and Disability in Those with Back Pain. Pain

631-637.

- 27-Kendra, L., Ocanez, B., Kathryn, M., Michael, W. (2010). A Meta-Analytics review of the association between anxiety sensitivity and pain. *Depression and Anxiety*, 27: 760-767.
- 28-Klein, D.N., Durbin, C.E., & Shankman, S.A. (2009). Personality and mood disorders. In I.H. Gotlib & C.L. Hammen (Eds.), Handbook of depression (2nd ed., pp. 93_112). New York:

Guilford Press.

- 29-Kurt B., Bansal, S., Daniel H., Chappell, F. Bock, A., Norman H. (2013). Effects of Concurrent Low Back Conditions on Depression Outcomes. *J Am Osteopath Assoc* 2013; 113(7):530-537
- 30-Kroenke, K., Wu, J., Bair, M. J., Krebs, E. E., Damush, T. M., & Tu, W. (2011). Reciprocal relationship between pain and depression: A 12-month longitudinal analysis in primary care. *Journal of Pain*, 12(9): 964-973.
- 31-Lance, M. (1999). Behavioral dimensions of adjustment in persons with chronic pain: pain related anxity and acceptance. *Pain*, 80(1-2): 283-289.
- 32-Linjawi,B.(2001) Some cultural and social determinants of Saudi women's personality, a study in cultural anthropology, unpublished doctoral dissertation, Department of Sociology / Ain Shams University, Egypt.
- 37-Muzahim, A. (2000). The relationship between parental style and depression in some adolescents auditors for Mental Health Hospital in Taif, Master Thesis submitted to Umm Al Qura University / College of Education, Kingdom of Saudi Arabia
- 34- Moix J, Francisco M. Kovacs, A, María N. And Royuela. (2011). Catastrophizing, State Anxiety, Anger, and Depressive Symptoms Do Not Correlate with Disability when Variations of Trait Anxiety Are Taken into Account. A Study of Chronic Low Back Pain Patients Treated in Spanish Pain Units. Pain Medicine, 12: 1008-1017

- 541-546
- 18-Friedrich M, Hahne J, Wepner F. (2009). A controlled examination of medical and psychosocial factors associated with low back pain in combination with widespread musculoskeletal pain. *Physical Therapy*, 89(8):786-803
- 19- Failde, I., Dueñas, M., Agüera-Ortíz, M., Cervilla, J., Gonzalez-Pinto, A., Mico, J. (2012). Factors associated with chronic pain in patients with bipolar depression: a cross-sectional study
- with bipolar depression: a cross-sectional study. *BMC Psychiatry*, 13(112). http://www.biomedcentral.com/1471-244X/13/112
- 20-Goubert L, Crombez G, Van Damme S (2004) The role of neuroticism, pain catastrophizing and pain-related fear in vigilance to pain: a structural equations approach. *Pain*, 107:234-241
- 21- Gerrits, M., Oppen, P., Marwijk, HW, Penninx, BW., Horst, HE. (2013). Pain and the onset of depressive and anxiety disorders. *Pain*, 155(1):53-59.
- 22-Hedda, L., Jacqueline Verdurmen, J., Have, M., Dorsselaer, S., Graaf, R. (2011) The Association Between Chronic Back Pain and Psychiatric Disorders; Results from a Longitudinal Population-Based Study Anxiety Disorder Book 1, 247-256
- 23- Hong, J., Kim, H., Shin, H., Huh, B. (2014) Assessment of depression, anxiety, sleep disturbance, and quality of life in patients with chronic low back pain in Korea. *Korean J Anesthesiol*, 66(6): 444-450
- 24-Jylh"a, P.,&Isomets"a, E. (2006). The relationship of neuroticism and extraversion to symptoms of anxiety and depression in the general population. *Depression and Anxiety*, 23(5), 281-289.
- 25-Jacobs, T. (2006) Low back pain incident episodes: a community-based study. Spine J, 6 (3):306-310
- 26-Kendler, K.S., Kuhn, J., & Prescott, C.A. (2004). The interrelationship of neuroticism, sex, and stressful life events in the prediction of episodes of major depression. *American Journal of Psychiatry*, 161,

Trialof Topical Clonidine for Treatment of Painful Diabetic Neuropathy. Pain

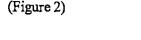
- 153(9):1815-23.
- 9-Costa PT & McCrae RR .(1992) Revised NEO personality inventory and NEO five factor inventory professional manual, Odessa, FL: Psychological Assessment Resources.
- 10-Carayon P, Smith MJ, Haims MC. (2008). Effect of psychosocial factors on low back pain in industrial workers. *Occupational Medicine*, 58:341-47.
- 11-Chou R. (2011) Low Back Pain (Chronic). Am Fam Physician, 15; 84(4):437-438
- 12-Croft PR, Papageorgiou AC, Ferry S, Thomas E, Jayson MIV, Silman AJ.(1995)Psychological distress and low back pain: evidence from a prospective study in the general population. *Spine*, 20:2731-2737.
- 13- Duthey,B., (2013). Update on 2004 Background Paper,BP 6.24. Low back pain. Priority Medicines for Europe and the World. "A Public health Approach to Innovation www.lowbackpain.com/backgroundpaper6.24
- 14-<u>Dickens C.</u>, <u>Jayson M.</u>, <u>Creed F.</u>(2002). Psychological correlates of pain behavior in patients with chronic low bac pain. <u>Psychosomatics</u>, 43(1):42-8.
- 15-Eysenck, H. J., & Eysenck, M.W. (1985). Personality and individual differences: A natural science approach. New York, NY: Plenum
- 16-Ellegaard H, Pedersen BD. (2012). Stress is dominant in patients with depression and chronic low back pain. A qualitative study of psychotherapeutic interventions for patients with non-specific low back pain of 3-12 months' duration. BMC Musculoskeletal Disorder ,6(13):166.
- 17-Esteves J.E., Wheatley L., Mayall C., Abbey H. (2013). Emotional processing and its relationship to chronic low back pain: Results from a case-control study. [Internet] Manual Therapy. Dec;18(6):
- المجلة المصرية للدراسات النفسية العدد ٨٩ المجلد الخامس والعشرون أكتوبر ١٠١٠ = (١٣)

_Chronic Back Pain, Anxiety, and Despression: ACase Study of five _

interactive relations in the current cohort. Depression may be an intermediary factor between back pain and the other three variables. According to these conclusions, it is of great importance that patients suffering from chronic back pain be subjected to complete psychological examinations that assess psychological symptoms and quality of life status.

References

- 1-Ashaalan. L(Y· V·). Self-disclosure among people with neurotic disorders in the light of the five-factor model of personality. A study of outpatients at Alamal complex for mental Health and Armed forces Hospital in Riyadh. Egyptian Journal Of Psychological Studies, 20 (66)__):311-370___
- 2-AlDlaim, F (1993a). Al Taif Hospital Scale of Depression. Al Taif Hospital
- 3- AlDlaim, F (1993b). Al Taiif Hospital Scale of Anxiety. Al Taif Hospital
- 4-Ambler N, William AC, Hill P, (2001). Sexual difficulties in chronic pain patients. Clinical Journal of Pain, 17:138-145.
- 5- Bahouq, H., Fadoua, A., Rkain, H., Ihsane, H., Hajjaj-Hassouni N.(2013). Profile of sexuality in Moroccan chronic low back pain patients. BMC Musculoskeletal Disorders, 14:63 doi: 10.1186/1471-2474-14-63
- 6-Bener A, Verjee M, Dafeeah EE, Falah O, Al-Juhaishi T, Schlogl J, Sedeeq A, Khan S, (2013). Psychological factors: anxiety, depression, and somatization symptoms in low back pain patients. *J Pain Res*, 6:95-101.
- 7-BenDebba M, Torgerson WS, Long DM (1997) Personality traits, pain duration and severity, functional impairment, and psychological distress in patients with persistent low back pain. *Pain*, 72:115-125.
- 8-Campbell, Claudia M., Mark S. Kipnes, Bruce C. Stouch, Kerrie L. Brady, MargaretKelly, William K. Scmidt, Karin L. Petersen, Michael C. Rowbowtham, and James N. Campbell. (2012) Randomized Control





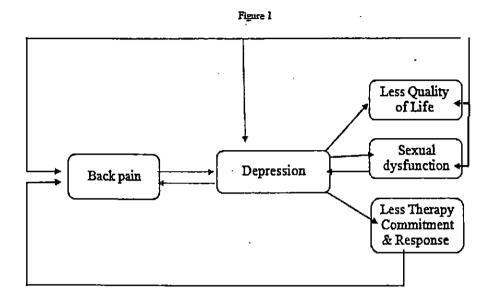
In the current study, we show data consistent with previous findings that neuroticism could be an indicator for depression among LBP patients. This suggests that the early detection of high neuroticism could help predict and diagnose depression in LBP patients, thereby improving treatment outcomes.

The present study showed that levels of anxiety have little, if any, correlation to LBP, as only two of the five examined cases suffered from anxiety. Other groups have also shown that levels of anxiety are not increased, or are only mildly so, in LBP sufferers (Bener et al., 2013; Dickens, Jayson & Creed, 2002). The results of the present study, however, differ from those of several other groups (Manchikant et al., 2002; Esteves et al., 2013; Mngoma, Corbie're & Stevenson, 2008; 2008; Mok and Lee, 2008; Moix et al., 2011; Kurt, et al 2013), who find that nearly half of the primary care patients suffering from chronic pain have been diagnosed with one or more anxiety disorders. Additionally, Kendra et al., (2010) states that there is a positive correlation between anxiety and pain in the clinical and non-clinical samples. Differences between these findings and those of the present study could be due to the nature of the back pain involved. Although LBP is a chronic ailment that causes physical pain and negatively affects many aspects of the individual's life style, in the current five cases, these women may have accepted LBP as a rather stable kind of disorder that poses no threat to their lives and thus can live with it and still be productive as long as the pain attacks are under control. Additionally, the current cohort is comprised of middle-class and educated individuals with an average age of 36, factors that may play a role in a resilience to anxiety related to LBP.

Conclusion

Back pain, depression, sexual dysfunction, impaired quality of life, and a reduced commitment to therapy are five variables that constitute a circle of

المجلة المصرية للدراسات النفسية العدد ٨٩ - المجلد الخامس والعشرون - أكتوبر ١٠١٠=(١١)=



In regards toward the impact of personality traits upon the severity of LBP, the present study revealed an association between back pain and increased neuroticism factor, with one exception. This is consistent with previous reports (Nitch and Boon, 2004; Goubert, Crombez & Van Damme, 2004). We also show a correlation between increased neuroticism factor and increased depression in four of the five cases. These findings are in accordance with those of groups who found that neuroticism is a serious risk factor for depression (Jylh and Isomets (2006); Klein, Durbin and Shankman, 2009). In addition, Kendler, Kuhn and Prescott (2004) find that individuals with higher neuroticism are more susceptible to suffer from depression in the face of adverse life pressures and events than those with lower neuroticism scores. Thus, neuroticism is an intermediary factor between back pain and depression.

It is possible that the failure of these individuals to adhere to non-medical therapy programs was a consequence of their depression. These results are in accordance with previous reports supporting the viewpoint that back pain and depression have a negative impact on therapy commitment and response; reducing the chances of pain relief (Mangerud et al., 2013; Kroenke et al., 2011; Duthey, 2013). Thus, depression can be an intermediary factor between back pain and therapy commitment and response. The treatment of depression in patients suffering from back pain could therefore improve the patient's commitment to therapy and improve their response, leading to a better quality of life.

In another context, we observed that the sexual habits of four of the five cases were negatively affected by LBP. This result agrees with those of previous studies, which show a direct relationship between back pain and sexual dysfunction, and suggest that a decrease in sexual performance and satisfaction is a common problem among patients suffering from back pain (Ambler, William & Hill, 2001; Cambell et al., 2012).

Bahouq et al. (2013) also concluded that chronic back pain could affect all aspects of life, including the sexual function of an individual, while Chatellier and Maigne (2011) found that sexual difficulties are present in between 50% and 78% of back pain patients. Similarly, Laflamme and Marchand (2006) report rates as high as 80%. In the current study, sexual dysfunction could also be an underlying cause of a reduced quality of life. This could be an additional factor in their suffering of depression As the Saudi culture is one in which a woman is assessed according to her ability to have children as well as her sexual performance (Lingawi,2002), sexual difficulties could have a particularly severe psychological impact. The prospects of aging, or of developing chronic ailments that affect her marriage, are psychological threatening factors that can negatively affect the psychological and health status of individuals like those in the current study.

Our model suggests that chronic LBP, depression, sexual dysfunction, reduced quality of life, and insufficient commitment to therapy are five variables that can constitute an interactive circle, as shown in Figure 1.

psychological disorders. Our results are also in accordance with a number of previous studies in patients with chronic back pain and depression (Mok and Lee 2008; Manchikant et al. 2002; Esteves et al.2013; Mngoma, Corbie're & Stevenson,2008; Yoshida and Kato, 2011). In contrast to these previous studies, however, the chronic LBP in the subjects of the current study was not caused by cartilage sliding or other specific medical problems. This suggests that, as with previous studies, underlying depression might be a trigger for LBP (Kurt et al., 2013). Other researchers (Duthey, Yolf; Failde et al., 2012; Carayon, Smith & Haims, 2011; Mok and Lee, 2008; Croft et al., 1995; Yilmazl and Dedeli, 2012) have found that signs of psychological disorder, such as depression, often predict a new cycle of lower back pain. Thus, the relationship between back pain and depression may often be a cyclical or forward-feeding one, in which one ailment contributes to the other.

Given this possibility, our study and others emphasize the importance of the early detection of depression detection among patients with chronic back pain. Diagnosing and treating depression in these patients may help prevent chronic and/or severe attacks pain. In addition, we observed that the quality of life in the current cohort had been negatively influenced by LBP. This negativity is reflected in the difficulties they faced in their daily routine, family care, social relations, sleep habits, work, recreation, and other measures. We suggest that depression may mediate the relationship between back pain and quality of life, as depression, like chronic pain, is known to increase self-pity, withdrawal from life, and decreased work performance and This conclusion is supported by studies showing a life enjoyment. correlation between back pain and depression that negatively effect quality of life (Kroenke et al., 2011; Mngoma, Corbie're & Stevenson, 2008; Friedrich, Hahne & Wepner, 2009; Viggers et al., 2012; Hee Hong et al., 2014; Ramirez-Maestre, Esteve & López, 2008).

In the current cohort, all subjects had at least a three-year history of complaints regarding the ineffectiveness of medical and physical therapies in relieving their back pain. We observed that, while these patients relied on painkillers, they did not abide by physical therapy and life-style change programs.

Lower back pain (LBP) and Neuroticism: In Table 2, we represent the following conclusions from this study. First, we observed an association between LBP and increased neuroticism in four of the five cases. The neuroticism factor in these four cases (cases 1, 3, 4, and 5) was between moderate and severe. We also observed an association between increased neuroticism and increased depression score in all cases except Case 2. The scores for depression in cases (1, 3, 4, 5) ranges between moderate and severe

We observed no association between increased neuroticism factor and increased anxiety. In fact, in two cases (Cases 1 and 4), high neuroticism was associated with decreased anxiety. In Cases 2 and 5, a higher neuroticism factor was associated with higher anxiety, which ranged between mild and severe.

LBP and Depression and Anxiety: An association between LNP and depression was observed in all five cases. Depression occurred to varying degrees, ranging from mild to severe. We found similarities in the results of the Beck and the Al Taiif Hospital Scale of Depression in all cases except Case 2. The other four cases scored similarly high in terms of depression on both scales. Depression in Case 2 was reported to be mild using the Beck scale, and not present using the Al Taiif Hospital Scale of Depression. We found no association between LBP and anxiety in three out of the five cases, in which anxiety levels were low (Cases 1, 2, and 4). In two cases (3 and 5), LBP was associated with anxiety that ranged between mild and severe. We observed similar results using the Al Taiif Hospital Scale of Anxiety and the Taylor Scale of Anxiety in all cases except Case 5, in which the Taylor Scale of Anxiety reported mild anxiety while the Al Taiif Hospital Scale of Anxiety did not indicate anxiety. We also observed that, except for Case 5, who was unmarried, the participants indicated that their ratings of sexual desire, sexual efficiency, and sexual satisfaction had been negatively affected.

Discussion

The present study found that the five female LBP patients studied suffered from varying degrees of depression, ranging from mild to severe. This finding is similar that of Ellegaard and Pedersen (2012), who found that back pain can cause significant psychological stress, leading to a number of

المجلة المصرية للدراسات النفسية العدد ٨٩ - المجلد الخامس والعشرون - أكتوبر ٢٠١٠ = (٧)=

___Chronic Back Pain, Anxiety, and Despression : ACase Study of five __

Table 2: the table shows the results of all five cases using different psychological test scales.

Albanian Care II	A TOTAL SECTION STATE OF THE SECTION STATE OF THE SECTION SECT	THE RESERVE TO A PROPERTY OF THE PARTY OF TH	Taiif Hospital	Beck	Taiif Hospital	Taylor
	Medical Diagnosis (back pain as diagnosed at referral place)	Major Five Factor Inventory	Scale of Depression	Scale of Depre ssion	Scale of Anxiety Raw score	Scale of Anxiet y
Case 1	Severe chronic back pain	High score on neuroticism factor + High score on conscientio usness factor	Raw score limited between 60 T- score and less than 70 T-score High Depression	Score 27 Severe Depre ssion	opposed to less than 60 T-score (Anxiety at normal range i.e.no anxiety	Score 15 No anxiet y
Case 2	Moderate Chronic Back Pain	High score on extraversion Factor + High score on openness to experience factor	Raw score opposed to less than 60 T-score Anxiety in normal range(i.e. no anxiety)	Score 12 Mild depres sion	Raw score opposed to less than 60 T-score Anxiety in normal range(i.e. no anxiety)	Score 13 No anxiet y
Case 3	Severe Chronic Back Pain	High score on neuroticism + High score on agreeablene ss	Raw score limited between 60 T- score and Less than 70 T- score High depression	Score 24 Moder ate depres sion	Raw score limited between 60 T-score And less than 70 T-score High anxiety	Score 28 Severe anxiet y
Case 4	Moderate Chronic Back Pain	Factor High score on neuroticism factor	Raw score Limited between 60 T-score and less than 70 T- score High depression	Score 28 Severe depres sion	Raw score Opposed to less than 60 T-score Anxiety in normal range (i.e. no anxiety)	Score 13 No anxiet y
Case 5	Moderate Chronic Back Pain	High score on neuroticism factor + High score on conscientio usness factor	Raw score Limited between 60 T-score and less than 70 T-score High depression	Score 19 Moder ate depres sion	Raw score Opposed to less than 60 T-score Anxiety in normal range (i.e. no anxiety)	Mild anxiet

of the major basic factors of a personality using 60 items that were derived from a factor analysis of several personality tests. The list consists of five sub-scales, each of which includes 12 items (per domain) determined by selecting one of five alternatives: strongly agree, agree, neutral, disagree, strongly disagree. The five sub-scales are: Neuroticism, Extraversion, Experience to Openness, Agreeableness, and Conscientiousness. AlShalan (2009) confirmed the validity and consistency of such an inventory in a population similar to that used in the current study, and created a modified version in which 58 items are distributed among the five sub-scales.

Scale 2: The Al Taiif Hospital Scale of Depression is notable as a local standardized scale.

AlDlaim (1993) and others created this scale to determine degrees of depression for clinical diagnosis and research purposes and was shown to be of high validity and consistency. The scale consists of 47 statements, each marked as one of four alternatives: always, sometimes, rarely, or never. The latter options are graded successively as 4, 3, 2, or 1. The statements with the following numbers, however, (1, 9, 10, 13, 15, 21, 24, 39, 40, 41) are corrected reversibly; the options are graded as: (1, 2, 3, 4) successively. The respondent's grade is calculated by adding the grades of all the statements to obtain a figure that is compared with the criteria tables. The higher the grade, the higher the degree of depression.

Scale 3: The Al Taiif Hospital Scale of Anxiety is another useful local standardized scale, created by Aldelem in 1993. This scale aims to measure levels of anxiety for the purpose of clinical diagnosis and research. This scale includes 47 items, each of which has four choices: always, sometime, rarely, never. Higher points indicate higher high anxiety. The last two scales of Aldelem have been shown to be both sensitive and specific. (Twnisi, 2002, Muzahim, 2000)

The other two scales used, the Beck Scale of Depression and the Taylor Scale of Anxiety have been well validated in the literature, and require no further description here.

Results

المجلة المصرية للدراسات النفسية العدد ٨٩ - المجلد الخامس والعشرون - أكتوير ١٠٠٠ = (٥)=

of whom suffered from chronic back pain that had been medically diagnosed as ranging from mild to severe. The cultural, social, economic, and urban backgrounds of the five subjects were varied (Table 1). While all of the subjects lived in Riyadh at the time that they were treated, one subject was originally from the northern region of the Kingdom, while another was from the southern region and the remaining three from the middle region of the Kingdom. The study was conducted between April 2011 and late March 2012, in coordination with hospital regulations and approval.) All treatment took place at outpatient clinics.

Detailed Sample description in the table below:

Table 1 is a description of the study sample in terms of, marital status, educational status and occupation.

	eaucai	ional status and	Occupanion.	
	Age	Marital Status	Academic Qualification	Occupation
Case 1 5 540	55 years	Married with 7	Grade 8	Housewife
	i '	children (4 girls, 3 boys)		
Case 2	38 years	Married with 3 children (3	B.A.	Teacher
Gase 3	44 years	school-age boys) Married with 4 children	B.A.	Retired teacher
Case 41.73	41 years	Married with 4	M.A.	University instructor
Case 5	48 years	Single, divorced, no children	B.A.	Administrator

Measures

Collection of information in all cases was performed using private personal interviews that consisted of one researcher and one patient as well as by the completion of an approved standardized form by the patient. All patients are consented for this study and an ethical approval been granted from the clinic board.

To assess the presence of an affective disorder, we applied five different scales: Costa and McCrae Big Five-Factor Inventory, Al Taiif Hospital Scale of Depression, Beck Scale of Depression, Al Taiif Hospital Scale of Anxiety, and the Taylor Scale of Anxiety, to the subjects.

Scale 1: The Costa and McCrae Big Five-Factor Inventory. The NEO Five factor Inventory (NEO-FFI) presented by Costa and McCrae (Costa and McCrae, 1992) is considered to be the first objective tool for the examination

(2013) examined 614 participants with LPB, with a follow up of 4 years (the Netherlands study), and found that only 15% showed anxiety or depression. In 2180 subjects complaining of LBP, Bener et al. (2013) found that 13.7% showed depression and 9.3% showed anxiety. Thus, the incidence of LBP together with anxiety and depression is variable in different populations. In the Arab world, Mokdad et al. (2004) observed an increase in the incidence of LBP, musculoskeletal disorders, anxiety, depression, and related diseases in the Arab world between 1990 and 2010.

The co-existence of LBP with affective disorders, such as anxiety, adds to the already high financial burden and loss of productivity in a society. Moldovan et al. (2009) recommended the routine inclusion of psychological assessment in the care of patients suffering from chronic pain, with the rationale that early interventions will minimize pain and improve the quality of life for these individuals. Nitch, & Boon (2004) found that individuals with particularly high intensities are most likely to experience anxiety and depression. On the other hand, Lance (1999) postulated that, if an individual is able to decrease his/her anxiety and increase his/her acceptance of chronic pain, the individual might be able to better adapt to his/her condition.

Neuroticism and a greater catastrophizing of pain have been observed in patients suffering from chronic LBP, compared to controls (Wade and Price, 2000; Nitch and Boon, 2004; Goubert, Crombez & Van Damme, 2004). Neuroticism involves being anxious, depressed, guilty, tense, irrational, shy, moody, emotional, and having low self-esteem (H. J. Eysenck and Eysenck 1985) and is a predisposing factor for depression (Jylhä and Isometsä, 2006; Klein, Durbin, and Shankman, 2009; Kendler, Kuhn, and Prescott, 2004). Patients with high neuroticism were found to be more emotionally distressed in relation to their LBP (BenDebba, Torgerson & Long, 1997). Chronic LBP also contributes to decreases in sexual desire, sexual arousal, and an incidence of sexual dysfunction as high as 50% to 78% of patients (Bahouq et al., 2013; Maigne and Chatellier, 2011).

The present study examines the association between chronic LBP and depression and anxiety in a small cohort of Saudi Arabian women.

Subjects and Methods

The study sample consisted of five female patients living in Riyadh City, all

المجلة المصرية للدراسات النفسية العدد ٨٩ - المجلد الخامس والعشرون - أكتوبر ٢٠١٥= (٣)=

Chronic Back Pain, Anxiety, and Depression: A Case Study of Five Female Saudi Patients

Latifah Ashaalan Associate Professor, Department of Psychology College of Education, Princess Nora Bint Abdul Rahman University

Aljawharh Alsukah
Associate Professor, Department of Psychology
College of Education, Princess Nora Bint Abdul Rahman University

Introduction

Lower back pain (LPB) is defined as tension or stiffness in the muscles below the costal margin (Chou 2011). Colloquially, lower back pain refers to the area between the rib cage and the buttocks. This pain may arise from the muscles, spine joints, or the vertebral discs (Yoshida & kato (2011). Measures of bodily function are defined using international classifications of functioning, disability, and health, and refer to all bodily activities. These measures indicate whether an individual suffering from back pain with limited function fits under the LPB classification (WHO 2001). The American Academy of Pain Medicine states that back pain in workers 40 to 65 years of age costs employers in the US an estimated \$7.4 billion per year, emphasizing the high cost of untreated back pain. Added to this statistic is the negative quality of life experienced by patients suffering agonizing chronic pain over long periods of time.

LPB is a common ailment; Yamada et al. (2014) showed that the incident of LPB is found in up to 25% of surveyed subjects. Jacobs (2006) demonstrated an incidence of LBP of 18.4%. Thus, a significant portion of the population complains of LBP. Many studies have found an association between the presence of chronic LPB and the incidence of anxiety (Hedda et al., 2011). In fact, the most common psychological disorders that are studied in conjunction with with LBP are anxiety and depression (Nitch, & Boon (2004). In one study, 55% of males and 48% of females with LBP displayed anxiety or depression (Sagheer Khan & Sharif (2013). In contrast, Gerrits et al.,

Chronic Back Pain, Anxiety, and Depression: A Case Study of Five Female Saudi Patients

Latifah Ashaalan
Associate Professor, Department of Psychology
College of Education, Princess Nora Bint Abdul Rahman University

Aljawharh Alsukah Associate Professor, Department of Psychology College of Education, Princess Nora Bint Abdul Rahman University

Abstract

The aim of the present study was to examine psychological factors in five Saudi females of various ages who represent different cultural, social, economic, and urban backgrounds. All the selected subjects suffered from chronic back pain that was not caused by cartilage sliding or other medical problems.

The current case study approach was adopted during periodic personal interviews conducted between April 2011 until March 2012. It was observed that all subjects are suffering from varying degrees of depression ranging from severe to mild and low quality of life. It was also observed that four of the five subjects had experienced impaired sexual function. Our findings suggest that depression in these subjects may mediate the relationship between back pain, quality of life, and sexual function. We observed weak association between back pain and anxiety in this cohort. In terms of personality factors, measures of neuroticism were significant in four of the cases. We discuss the results in light of previous studies, and seek to interpret them within the socio-cultural framework of the subjects examined.

Keywords: anxiety, depression, chronic back pain