

African Journal of Nursing and Midwifery ISSN 2198-4638 Vol. 2 (6), pp. 221-232, July, 2015. Available online at www.internationalscholarsjournals.org © International Scholars Journals

Author(s) retain the copyright of this article.

Full Length Research Paper

A study of the prevalence of postnatal depression and its risk factors among Arab women

Al-Habsi Yusuf and Sayyid F. Saudal

Department of Maternal and Child Health Nursing, Faculty of Nursing, Sultan Qaboos University, Muscat, Oman. E-mail: habsi.yusuf@hotmail.com

Accepted 27 May, 2015

Objective: To describe the prevalence of postnatal depression and its risk factors among Arab women. Even though postnatal depression remains a worldwide phenomenon, there are continental variations in the prevalence rates and predictors. Methods: The prevalence of postnatal depression and its predictors remains influenced by the culture, tradition, values and beliefs among the Arab women. Since postnatal depression has effect on the mother and the baby, early diagnosis will help in implementing the preventive strategies to prevent worsening of the problem. Hence a narrative review of studies on prevalence postnatal depression and risk factors among Arab women will help in informing the current situation to public and health care providers. This review was conducted to describe the prevalence of postnatal depression and its risk factors among the Arab women during the past 7 years from 2005-2012. We searched the electronic databases SCIENCE DIRECT, PUBMED, CINHAL, EBSCO, SCOPUS, and UPTODATE to identify relevant studies. Initially 38 studies were identified potentially relevant and out of which 17 studies which met the selection criteria were included in the review. Results: Seventeen studies with a total of 9.132 Arab women were included in the narrative review. The maximum and minimum reported prevalence of postnatal depression were 10-80 % respectively. History of late prenatal depression, and anxiety, being first time mother with poor body self image, poor relationship with partner and in-laws, unplanned pregnancy ,lack of social support, perceived low parental knowledge and preterm birth were the significant risk factors identified among the studies reviewed. Conclusion: This narrative review informs the current status regarding prevalence and risk factors for postnatal depression among Arab women and has implications for clinical practice. The review identified that postnatal depression among Arab women is highly significant than other cultures. Midwives and health care providers should therefore be trained and given opportunities to learn to identify the risk factors of postnatal depression to aid the mental wellbeing among postnatal mothers.

Keywords: Arab women, postnatal depression, risk factors, screening, prevalence.

Abbreviations used:

EPDS- Edinburg Postnatal depression scale; BDI- Beck Depression Inventory; M. I.N.I- Mini International Neuro Psychiatric interview; STAIT- Speilbergers Strait-trait Anxiety inventory; DASS-21- Depression Anxiety Stress scale; MSSS-The Maternity Social Support Scale; CWS- the Cambridge Worry Scale; PSES- Perceived Self-Efficacy Scale; PKS-Perceived Knowledge Scale; DUSOCS-Duke social support and stress scale; PSI/SF-Parenting stress index/short form; DSM-IVthe Diagnostic and Statistical Manual of Mental Disorders, 4th edition.

INTRODUCTION

Postnatal depression ranges from mild self limiting depression called as postpartum blues or baby blues to postpartum major depression and postpartum psychosis. Most women are affected to mood symptoms in postpartum periods (4-6 weeks after the child birth). The symptoms relevant to baby blue are reported in most of these women which is a mood disturbance and is characterized by mood instability, feeling of unhappiness. feeling of dysphoric, mental confusion and weeping (Kaplan et al, 2009). Postpartum depression includes almost all the essential characteristics of depression along with sudden occurrences during the first four weeks after the childbirth (Videbeck, 2004). At the other end of the spectrum is postpartum psychosis, which is characterized by severely depressed mood, disorganized thinking, psychotic thoughts, and hallucinations. Often has its onset in close proximity to childbirth (kendell, 1987; Monk - Olsen et al., 2006).

Despite the expectation of pregnancy and childbirth as being joyous occasion, often these are times of dynamic change for many women, catalyst for the new onset of depressive disorders or a precipitant for recurrent depression. Postnatal depression is the most common complication of childbearing, affecting 10-15 % of women and is indeed a public health problem, particularly as the incidence is much higher than the quoted rate of 10%— 15% (Palo, 2009). An increasing amount of evidence now highlights that, for a relatively large proportion of women, the process of having a baby can trigger serious emotional problems and lead to a disturbing and sad time (Green et al., 2006).

Various risk factors have been identified for Postnatal depression in Arab women and include: multiparty, serious problems with the baby, poor relationship with the husband and / or relatives lack of social support, polygamy, not living with the extended family members and whether the baby was desired (Abou-Saleh and Ghubash, 1997; Danaci et al., 2001). While some of these factors may be problematic to women everywhere, some are closely linked to Arab women whose attitudes and beliefs are so inextricably intertwined with Islamic values and culture (Green et al., 2007)

Muslim women are raised with belief that their main objective in life is to produce and raise children (Ghubash et al., 1997). Robertson et al., 2004 in his review found that the following risk factors are the strongest predictors of postpartum depression (in increasing order of effect): depression during pregnancy, experience of stressful life events during pregnancy, low levels of social support, and previous history of depression. The cause of postnatal depression remains unclear, with extensive research suggesting a multi-factorial etiology. However, epidemiological studies and meta – analyses of predictive studies have consistently demonstrated the importance of psychosocial and psychological variable. While intervention based on these variables may be the effective treatment strategies, theoretically they may also be used in pregnancy and the early postpartum period to prevent postpartum depression.(Dennis and Creedy, 2005) The 40-day postnatal period is characterized in the Middle East and elsewhere by an observance of seclusion, congratulatory visiting, the reciprocal exchange of gifts and money, and a special diet. Often postnatal checkups, family planning counseling, and immunization services may not be routinely available or used. It is argued that these health services could be provided at the end of the 40-day period for mother and child, as in a pilot study in Tunisia some years ago. Health service provision would thus build on the health enhancing practices of the 40day period (Hunt et al., 2000).

Objectives of the review

The primary objective of this literature review was to describe the prevalence of postnatal depression among Arab women. The secondary objective is to identify the risk factors of postnatal depression among the Arab women by reviewing the studies published between the years 2005-2012.

The research questions

1. What are the prevalence rates of postnatal depression among the Arab women?

2. What are the risk factors for postnatal depression among the Arab women?

Search strategy

A review of all published and unpublished literature related to prevalence and risk factors of postnatal depression among Arab women were conducted. The online databases SCIENCE DIRECT, PUBMED, CINHAL, EBSCO, SCOPUS, and UPTODATE were used for identifying relevant studies. Medical subject handling terms (MeSH) and free text terms such as depression among Arab women, risk factors, depression in western cultures, Edinburg postpartum depression scale, Beck depression inventory were used for the search.

Selection criteria

Studies were identified from international peer- reviewed journals that used descriptive, longitudinal, cross sectional, prospective and prevalence approaches in research. All published and unpublished studies, master's thesis, conference abstracts and presentations between the years 2005-2012, assessing the prevalence and risk factors for postnatal depression among the Arab population were included in the review. A total of 38 articles were identified as potentially relevant. Studies which met the selection criteria were included in the review. Data from 17 studies were identified as potentially relevant and were abstracted into a standardized form.

Data collection and analysis

All the reviewers participated in the scrutinizing process of the searched articles for its quality and involved in the data extraction. The 17 studies were reviewed by all the authors for the research approach; sample and population, setting, tools with its cut off scores, objectives, interventions with the outcome of the study.

RESULTS OF THE SEARCH STARTEGY

A total of 17 studies were from United Arab Emirates 3, Turkey 1, Morocco 1, Tunisia1, Egypt 1, Israel 2, Jordan 2, Libya 1, Istanbul 1, Bahrain 1, Iran 2, and Qatar 1 respectively. The summary of the studies has been shown in the table 1. A total of 9,132 Arab women were the included in the reviewed studies. All the 17 studies reviewed (ref. table 1) showed that the postnatal depression rates were high when compared to women in other cultures. The depression rates among Arab women ranged from 17.6% (Bener et al., 2011) to a maximum of 80.7% (Naglaa et al., 2011).

DISCUSSION

Postnatal depression accounts for a substantial share of global Burden of disease and has important implications for maternal well-being, mother child attachment, and child development. Summary of the studies reviewed shows (ref. table 1) comparisons with studies of postnatal depression in other Arab countries are difficult because of variability in the tools used (screening, standardized diagnostic tools) the point in time applied, different cut off points of the same tool and other cultural issues (Dallal et al., 2012). Most of the studies reviewed were done using brief one-dimensional instrument (mostly EPDS) with focus on prevalence and related risk factors. In this review seven studies used cut off scores \geq 10 in the EPDS scale. 3 studies used BDI in combination with EPDS. Rest of the studies used different tools to assess postnatal depression.

The variability in the rate of postnatal depression among Arab women certainly shows that complex socio cultural factors exist during childbearing period. The

women in the modern Arab culture are vastly changing from traditional family roles to new working women roles

and are facing stress in relation to their changes. This may sometimes reduce their self esteem leading to depression during postpartum. Women may not have the empowerment to reject the traditional postnatal rituals imposed on them by their care givers. If the women had pre- existing unsatisfactory relationship with the ritual imposing care givers it may result in mothers experiencing stress during postnatal period. Diagnosis of postnatal depression not only depends on the length of time between delivery and onset, but also depends on the severity of depression. Conclusions regarding the significance of varying rates of depression must be interpreted with concern. Due to lack of experimental and control groups in the clinical studies and due to the time variations in application of the screening tools for postnatal depression may be one of the causes for varying rates of postnatal depression. Many studies have limitations in identifying the risk factors of postnatal depression as screening was done only after delivery and did not consider the time during pregnancy. Physical symptoms of depression like loss of control, first time mother's experience, irritability, loss of appetite, loss of weight, and decrease in libido cannot be assessed using the EPDS alone. Hence appropriate standardized tools for assessing the somatic symptoms should also be considered. O'Hara and Swain, 1996 reported in their meta analysis of previous studies about the psychosocial risk factors as marital problems, stressful life events, history of psychiatric problems, lack of social support as significant ones. An earlier study in UAE by (Ghubash et al., 1992) pointed out early depressive symptoms as an important predictor for postpartum depression. The early depressive symptom as defined by EPDS seven days after delivery and supports the use of EPDS as screening tool for early identification of postnatal depression.

Zubara et al., (2010) reported that factors such as socio economic status, biological factors and stigma associated with mental disorders may influence the expression of depressive symptoms and prevalence of postpartum depression. Literature supports that there is worldwide evidence that postpartum depression and prevalence figures may vary according to different countries even when the same tool is used.

Nahas et al., (2012) describes that very little information is available about postnatal depression in Middle Eastern women. This is supported by the study comparing Australian and Lebanese women conducted by De Costa (1991) in the western suburbs of Sydney highlighted some reasons that could cause postnatal Depression among Lebanese women and could be extrapolated to other groups of Middle Eastern Women.

Risk factors for postnatal depression include first birth, ambivalence about the pregnancy, lack of social support, economical problems, history of abortion, died infant, gender of infant, medical or surgical history, number of

Table 1. SUMMARY OF THE STUDIES REVIEWED

s.no	Name of the author & year	Research design	No:Sample	Time of visiting	setting	objectives and	Tools used with cut off	Results/outcome
	1					intervention	scores	
1.	Glasser etal (2011)	survey	Women attending the MCHC clinics. N=1,254 pregnant and	pregnancy & postnatal	Israel ministry of health MCHC clinics	Screening programme for assessing the rate of depressive	Edinburg Postnatal Depression scale. cut off score- ≥10	The rate of antenatal depression was 20.8% and during the postnatal
			2,326 postnatal mothers			symptoms in antenatal and postnatal women		period was 16.3%.
2.	Hamdan, A. Tamim, H. (2011)	Prospective study	137 pregnant women	Pregnancy	MCHC in Emirate of Sharjah	During the first data point, Beck depression inventory II, beck anxiety inventory (BIA), stressful life events Inventory and measure of religiosity were administered. Only participants who scored 10 or above on the EPDS (screening tool) were administered the MINI diagnostic tool.	BDI-II score, 0-13 was minimal depression, 14-19- was mild depression, 20-28- moderate depression and 29-63-severe depression. BIA-had 4 categories. 0-7 minimal anxiety, 8- 15- mild anxiety, 16-25 moderate anxiety, 16-25 moderate anxiety, 26- 63 severe anxiety. The EPDS had cut off score of 10.	Using the M.I.N.I. diagnostic tool 10% of participants were diagnosed with postpartum depression.
3.	Green, K. Broome, H. Mirabella, J. (2006)	Longitudinal study	125 Emirati women who gave birth	Postnatal	government maternity hospital Abudhabi	This study sought to identify the prevalence and related socio- cultural and physical factors in Arab women from the UAE.	The tools used were socio demographic questionnaire and Edinburg Postnatal depression scale. The EPDS 10 item tool having 3 categories of scores 0-9 no depression, 10-12 borderline depression, scores of 13+depression.were used in this study to interpret the findings.	It was found that at 3 months, sample had 22% of mothers falling into the Depression category and another 22% falling in the Borderline Depression category. At 6 months, this fell to 12.5% Depression category and 19.6% Borderline Depression category.

4.	Masmoudi, J, Tabelsi, S, Charfeddine, F, Ben Ayed B, Guermazzi M, & Jaoua A. (2008).	Survey design	213 postnatal Tunisian women	postnatal	Department of OBG of CHU of sfax, Tunisia	To estimate the prevalence of PNDP and assessed the effective temperamental profile of those affected.	Edinburg Postnatal Depression scale. cut off score- ≥10. The Arabic version of the temperaments auto questionnaire of Memphis, Pisa, Paris and San Diego (TEMPS-A) was also used. The subjects were divided into 2 subgroups, depressed versus not depressed groups for comparative analyses.	19.2 % had a score higher than 9 on the EPDS with depressed group. The EPDS scores were correlated with all temperamental scores, except for hyperthymic. Higher scores on the depressive, irritable, anxious and cyclothermic temperaments were observed in the depressed group.
5.	Ghubash, R & Eapen V. (2009).	Qualitative study	19 women attending a public sector clinic	pregnancy	public sector clinic in Al Ain, Abu Dhabi, and a private clinic in Dubai	Qualitative information gathered using focus group discussions of women of childbearing age is presented along with additional information obtained from key informant interviews with grandmothers, husbands, and health care professionals in the United Arab Emirates.	Focús group discussion had no scores.	The majority of the women who took part in the study did not recognize postnatal depression as a psychological issue but considered the problems a result of "evil eye" or "Jinn." The present findings suggest the need for initiating awareness programs among women and training of health professionals on the detection and management of postnatal depression.
6.	Eilat-Tsanani, S, Meron, A, Romano, S, Reshef, A, Lavi, I, & Tabenkin, H. (2006).	Telephone survey	574 woman who gave birth ,with 9.9% diagnosed with PNDP	postnatal	women who gave birth in HaEmek Medical Center-Israel	To identify patients with PPD and to describe their consultation patterns with primary care physicians for themselves and their babies.	Edinburg Postnatal Depression scale. cut off score- ≥10	9.9% of the surveyed were diagnosed with postnatal depression.

7.	Gawass, M., Al-Maghur, L., Gantri, R., & Ragab, H. B. (2009).	Prospective study	100 postnatal Libyan women	postnatal	Obstetrics and gynecology department, Tripoli medical centre , Tripoli, Libya	To identify the risk factors for the development of postpartum depression in Libyan women.	Edinburg Postnatal Depression scale. Cut off score- ≥10.	The study results showed that 43% of the patients were not depressed (EPDS 0-4), 15% had borderline depression (EPDS score of 5-9), while 42% suffered from Postpartum depression (EPDS \geq 10). The study also showed a strong relationship between the development of PPD and an unhealthy baby, neonatal death, previous bad obstetrics experience, low parity and higher level of education.
8.	Gungor,Ilkay,Oskay,Umran, Nezihe Kizilkaya (2011)	Case control study	149 preterm mothers in case group and 150 in control group	postnatal	Tertiary care hospital in Istanbul	The study aimed to determine the bio-psychosocial risk factors for preterm birth in a sample of Turkish woman without chronic illness and evaluate their anxiety and depression in early postpartum period.	Multi dimensional scale of perceived social support, beck Depression Inventory and Speilberger's State-Trait Inventory were administered within24-72hours after birth	The study showed results as preterm births were associated with lower social supportalong with more anxiety and depressive symptoms in early postpartum. Increased maternal anxiety and depression reveal the necessity of emotional support immediately after birth.
9.	Dallal.F.H & Grant.I.N (2012)	Cross sectional descriptive study	237 Bahraini postnatal women	postnatal	20 randomly chosen Primary health centers and 2 clinics in Bahrain	Thisstudyestimatedtheprevalenceofpostnataldepressivesymptomsandassociatedriskfactors.	The Arabic version of the Edinburg Postnatal depression scale with cut off score ≥12 was the tool used for the study.	More than one third (37.1%) of the women had EPDS score≥12.

10.	Sadeghi Azar.I.S., Hashemi.Z., Forghani.F.(2006)	survey	408 postnatal women between 2-8 weeks after delivery	postnatal	Zabol ,city in south east of Iran	To determine the prevalence and risk factors of postpartum depression among women living in the city of Zabol, Iran.	The Beck Depression Inventory (BDI) was used. The scores of 9 and less a normal range, a score of 10- 15 minimal depressive symptomatology, a score of 16-31 shows mild depression and score of 32-47 moderate depression score of \geq 47 indicate severe depression.	The prevalence of postpartum depression was (40.4%) during 2-8 weeks. 21.3% had minimal depressive symptomatology 33.6% had mild depression , 5.9% had moderate depression and 4 % had severe depression. Risk factors included younger age, low income families, unemployment, and history of depression, lack of family support, formula feeding, and relationship difficulties with spouse parents or
11.	Bener.A.,Burgut.T.F,Ghuloum .s , Sheikh.J.(2011)	Prospective cross sectional study	1669 mothers within 6 months after delivery	postnatal	Primary health care centers in Qatar	To determine the prevalence and identify the risk factors of postnatal depression among Arab women in Qatar	The Edinburg Postnatal depression scale with cut off score- ≥10 was the tool used for the study. A self administered questionnaire was also used to collect the socio demographic data and obstetric data.	parents- in- law. The prevalence of postpartum depression among the study sample was 17.6%. Financial difficulties, prematurity, poor family support, dissatisfaction in family life, poor marital relationships were the predictors of postpartum depression.

12.	Najafi.k., Zarrabi.H., Shirazi.M,	Descriptive cross	335 women	postnatal	Al Zahra	To assess the	The Beck Depression	The overall
	Avakh.F.,Nazifi.F(2007)	sectional study	after 2 weeks		hospital,	prevalence and	Inventory (BDI) was	prevalence of PPD
		,	of delivery		Rasht city.	determinants of	used. The scores of 9	was 20%. Regarding
					Iran	PPD using the	and less a normal	Beck depression
						Becks	range, a score of 10-	inventory. 61
						depression	15 minimal depressive	patients had mild
						inventory.	symptomatology.	depression and 6
							score of 16-31 shows	patients suffered
							mild depression and	moderate
							score of 32-47	depression. In these
							moderate depression	patients
							score of ≥ 47 indicate	unemployment.
							severe depression	history of abortion
								and infant deaths
								were significantly
								associated with PPD.
13.	Mohammad KI, Gamble J,	Prospective cross	353 Arabic	pregnancy	A teaching	To investigate	The Edinburg	High rates of
	Creedy DK (2011).	sectional study	speaking		hospital and	the prevalence	Postnatal depression	antenatal (19%) and
			women in their		five health	of depression	scale cut off score ≥ 10	postnatal depression
			last trimester		centers in	during	and Depression	(22%) were reported.
			of pregnancy		Irbid city in	pregnancy and	Anxiety and stress	A regression
					Northern	postpartum	scale, perceived self	analysis reveals at
					Jordan	period for	efficacy scale,	6-8 weeks
						Jordanian	perceived knowledge	postpartum antenatal
						women and	scale were used	depression,
						identify the	initially. Later on after6-	unplanned
						associated risk	8 weeks a telephone	pregnancy, and
						factors and	face-to- face interview	difficult relationship
						maternity service	was also conducted to	with mother in law,
						delivery issues.	complete the data	dissatisfaction with
							collection.	the overall care,
								stress, lack of social
								support, giving birth
								to female baby,
								feeling pressured to
								birth the baby
								quickly, and
								perceived low
								parenting knowledge
								were associated with
								postnatal
								depression.

14.	Nayel.T., Salameh M., Eid	A cross sectional	300	postnatal	4 maternal	To estimate the	Data were collected	Results revealed
	Oweis Al., Hameed B.,	correlation design	postpartum		and child	prevalence of	using the Edinburgh	high prevalence of
	Amarneh M(2006).	Ŭ	women within		health	postpartum	Postnatal Depression	postpartum
			first year		centers in	depression	Scale (EPDS) cut off	depression, 42% of
			postpartum		Amman	among	score ≥12. Perceived	participants scored
			1		Jordan	Jordanian	Stress Scale (PSS).	13 or above on the
						women, examine	Parenting Stress	EPDS. Lower
						the relationships	Index/Short Form	income level
						among the socio	(PSI/SF) Duke Social	unplanned
						demographic	Support and Stress	pregnancy history of
						variables	Scale (DUSOCS) and	depression
						perceived	a Socio-demographic	perceived
						perceiveu	a Socio-demographic	perceived
						etrose porenting	sheet designed for this	postparting stress,
						stress, parenting	study.	parenting stress,
						Suess, Social		perceived lower
						support, postpatal		social support, and
						depression and		relationships were
						depression and		significantly
						bost prodictors		significantly
						of postportum		confeiated with
						depression		depression Read
						among		ap stanwise multiple
						lordonion		on stepwise multiple
						Joruanian		atross parenting
						women.		stress, perceived
								posiparium stress,
								and perceived
								stressiul
								relationsnips were
								significant predictors
								of postpartum
								depression among
15			110			—	-	Jordanian women.
15.	NaglaaA.M., Ghadah A.M.,	survey	110 pregnant	pregnancy		To estimate the	Inree tools were used	ine main results in
	Nadia		women		Specialized	prevalence and	fordata collection.	the postnatal period
	A.S.,HamidaA.K.,Abdelhafez				Hospital, at	severity of	Socio demographic	of the study
	And Ahmed MA.(2011)				Assuit City,	postpartum	data structured	revealed44.5% of
					Egypt.	depression and	interview schedules,	them feeling
						examine the	postpartum depression	postpartum blues
						predictors for	predictor's inventory	and 80.7% of the
						postpartum	(PDPI) and Edinburg	women had
						depression	postnatal depression	postpartum
						during first 3	scale cut off scores	depression.
						months	≥12.	
						postpartum.		

16.	Dinadar I, Erdogan S. (2007)	A descriptiv	e 679 mothers	postnatal	9 public	To explore the	The Edinburgh (EPDS)	The EPDS results
		design an	within first year		nealth	prevalence of	Postnatal depression	revealed a 25.6%
		random surve	of delivery		centers in	postpartum	Scale cut off scores	prevalence of
		method			тикеу	notential risk	212 difu its fisk lactor	depression and
						factors divind	used during home	16.7% prevalence
						rise to PPD	visits	of lower -level of
						among Turkish	violito.	depression. The
						women.		strong predictors of
								depression were
								previous
								psychiatric illness,
								smoking, lower
								economic status,
								relationship
								problems with
								nusband or mother
								dissatisfaction in
								social relations
								previous loss of a
								baby and giving
								birth to a baby girl.
17.	Agoub M , moussaoui D,	survey	144 mothers at	postnatal	lbn Rushd	To determine the	Tools used were Mini	18.7% met the
	Battas O(2005).		2and 6 weeks		University	prevalence and	International Neuro	DSM-IV criteria for
			postpartum		psychiatric	factors	psychiatric interview	depressive
			and at 6 and 9		center,	associated with	(M.I.N.I) and the Arabic	disorder in the 2"
			months after		Casablanca,	postpartum	version of Edinburg	week after delivery.
			delivery.		MOLOCCO	among	Scale (EPDS) with cut	disorder was
						Moroccan	off scores >12	significantly
						mothers	011 300103 = 12.	associated with
						inouriere.		pregnancy
								complications,
								stressful life events
								during pregnancy,
								baby's health
								problems, and poor
								marital
								relationships.

Physical factors	No of studies
History of depressive disorder during pregnancy	8
Smoking	1
Unplanned pregnancy/problems in accepting the pregnancy	4
Older age at marriage	2
Prematurity, recurrent infections of genito urinary tract	3
Previous bad obstetrics experience, low parity and higher level of education & lower level of education, lack of breast feeding	4
History of abortion, pregnancy complications	2
Younger age, formula feeding for infant	2
Giving birth to the first child	1
Psychological factors	No of studies
Stressful life events during pregnancy/difficult pregnancy	4
Baby's health problems/unhealthy baby	2
Parenting stress	1
Feeling pressurised to birth the baby quickly	1
Poor self body image and awareness of body weight	1
Death of baby/ neonatal death	3
Number of children	2
Personal stressful life events before pregnancy or following delivery	1
Perceived low parenting knowledge	1
Social relationship factors	No of Studies
Poor marital relationships	3
Lower economic status/low income	5
Problems with husband and or mother -in- law	5
Giving birth to a baby girl.	2
Financial difficulties, poor family support	2
Unemployment or employment status(4 studies)	4
Religion	1
Dissatisfaction in social relations	2
Lack of social/ family support	4

Table 2. Risk factors identified among the reviewed studies

pregnancies, type of delivery, life stressor event, lack of partner, and a history of depression or another depression illness, and more.(Al-Shami et al., 2010). Previous history of depression or psychiatric disorders is the most common risk factor identified among the studies reviewed. The next strongest predictor identified is poor relationship with husband and or in-laws. Unemployment and low socio economic status also remains as major risk factor for postnatal depression. Summary of risk factors identified among the studies reviewed shows it can be identified and counseled respectively (ref table 2).

Yet, Gaps in research are especially high in Arab Middle Eastern populations (Yount K et al., 2012).This article has reviewed limited number of studies done among the Middle Eastern Arab population with the aim to visualize the prevalence and risk factors among Arab women.

This indicates that the health care personnel should be adequately trained to identify and manage the postnatal depression, make the women aware of the postnatal depressive symptoms and eliminate the risk factors. This can be enhanced by making routine screening in the antenatal and postnatal visits for postnatal depression. High risk population such as women with previous history of psychiatric illness, history of poor relationships need to be identified, in addition plans such as interventions for maternal competency, parenting help, social support networks. As we know that among the 22 Arab countries only a few countries have studies done on postnatal depression, and rest of the countries yet to publish their studies done. Little is known about studies done among postnatal depression in Oman. More research is needed to understand the mental health condition among Arab women in their postnatal period. In conclusion this review

suggests the need for more research in this area to identify postnatal depression and its risk factors among Arab women.

Limitations of the search:

All the 17 studies reviewed were published between the years 2005-2012. Few studies were published in other than English language and were done recently and hence could not be included in the search. Among the 22 Arab countries few of them have published studies. Countries like Yemen, Oman, Syria, Sudan, Mauritiana and Comoros have no clinical studies published (between 2005 -2012) regarding postnatal depression. Hence generalizing the findings among all Arab countries is difficult.

Implications for practice:

Postnatal depression remains to be a problem with multi factorial risk factors. Hence interventions to identify the risk factors are important to tackle this problem. There is a need for multi disciplinary approach in identifying the prevalence and risk factors of postnatal depression. Researchers have to concentrate on interventional studies to reduce the potential risk factors of women during the postnatal period. By developing social support systems, counseling centers, routine antenatal and postnatal screening and self help groups for postnatal mothers it would help in reducing the prevalence rates of postpartum depression.

Funding:

This article did not receive any funding from public, commercial or personal sections.

Conflict of interest:

The authors declare no conflicts with anyone regarding the contents of this article.

REFERENCES

- Agoub M , Moussaoui D, Battas O(2005). Prevalence of postpartum depression in a Morrocan sample. Arch Women's Ment Health. 8(1): 37-43.
- Almond P(2009). Postnatal depression: A global health perspective. Perspectives in Public Health. 129(5): 221-227. doi: 10.1177/1757913909343882.
- Al-Shami N, El Atty M, Salma A(2010). Identification of Factors Associated with Postpartum Depression among Saudi Females in Riyadh City. Masters thesis. <u>http://hdl.handle.net/123456789/19373</u>.
- Azar I S, Hashemi Z, Forghani F(2006). Postpartum depressive correlates among Women Living in Zabol (Iran). J. Psychiatr. Iran.1(4): 140-147.
- Bener A, Burgut FT, Ghuloum S, Sheikh J(2011). A Study of Postpartum Depression in a Fast Developing Country: Prevalence and Related Factors. The 12th International Mental Health Conference: Personality Disorders: Out of the Darkness, Gold Coast, Australia 24th – 26th August. 2011.

- Boath E, Pryce A, Cox J(1998). Postnatal depression: the impact on the family. J. Reproduct. and infant Psychol. 16(2/3)199-204.
- Boyce P, Hickie I, Parker G(1991). Parents, partners, or personality? Risk factors for postnatal Depression. J. Affective Disorders. 21(4): 245-255.
- Chaaya M, Campbell O, Kak F, Shaar D, Kaddour A(2002). Postpartum depression: prevalence and determinants in Lebanon. Archive of women's mental health. 5: 65-72.
- Cox JL, Holden JM, Sagovsky R(1987). Detection of postnatal depression: Development of the 10-item Edinburgh Postnatal Depression Scale. Br. J. Psychiatr. 150:782–786.
- Dallal FH, Grant IN(2012). Postnatal depression among Bahraini women: prevalence of symptoms and psychosocial risk factors. Eastern Mediterranean Health J. 18: 5.
- Dannci A, Dinc G, Deveci A, Sen F, Icelli I(2002). Postnatal Depression in Turkey. Epideomiol. and cultural aspects. Social psychiatr. and psychiatr. Epidemiol. 37: 125-129.
- De Costa C, (1991).Pregnancy Outcomes in Lebanese Women-Born Women in western Sydyney.Med. J. Australia. 149(7): 457-460.
- Dennis CL, Creedy D(2005). Psychosocial and psychological interventions for preventing postpartum depression. J. Evidence Based Nursing. PMID. 15495008.
- Dinadar I, Erdogan S(2007). Screening of Turkish women for postpartum depression within the first postpartum year: the risk profile of a community sample. Public health nurs. 24(2): 176-83.
- Eilat-Tsanani S, Meron A, Romano S, Reshef A, Lavi I, Tabenkin H(2006). The effect of postpartum depression on womens' consultations with physicians. Israel Med. Association J. 8(6): 406-410.
- Gampbell J, Creedy D(2009). A counseling model for postpartum women after distressing birth experiences. Midwifery. 25: 21-30.
- Gawass M, Al-Maghur L, Gantri R, Ragab HB(2009). Risk factors for postnatal depression in Libyan women. Jamahiriya Med. J. 9(1): 41-45.
- Ghubash R, Eapen V(2009). Postpartum mental illness: Perspectives from an Arabian Gulf population. Psychol. Reports. 105(1): 127-136. Doi:10.2466/pr0.105.1.127-136
- Ghubash R, Abou-Saleh MT(1997). Postpartum psychiatric illness in Arab culture: prevalence and psychosocial correlates. Br. J. Psychiatr. 171: 65-8.
- Glasser S, Tanous M, Shihab S, Goldman N, Ziv A, Kaplan G(2011). Perinatal Depressive Symptoms Among Arab Women in Northern Israel. Maternal and Child Health J. Pp. 1-9.
- Green K, Broome H, Mirabella J(2006). Postnatal depression among mothers in the United Arab Emirates: Socio-cultural and physical factors. Psychol. Health and Med. 11(4): 425-431.
- Hamdan A, Tamim H(2011). Psychosocial risk and protective factors for postpartum depression in the United Arab Emirates. Archives of Women's Mental Health. 14(2):125-133.
- Hundt G L, Beckerleg S, Kassem F, Abu Jafar A M, Belmaker I, Abu Saad K, Shoham VI(2000). Women's health custom made: building on the 40 days postpartum for Arab women. Health Care For Women International. 21(6): 529-542.
- Kaplan H, Sadock V, James B(2009). The summary of psychiatry, translated by Rezaie, Farzin, Tehran: Arjmand publication,3rd Edition.
- Kendell RE, Chalmers JC, Platz C(1987). Epidemiology of puerperal psychoses. British J. Psychiatr. 150: 662-673.
- Masmoudi J, Tabelsi S, Charfeddine F, Ben Ayed B, Guermazzi M, Jaoua A(2008). Study of the prevalence of postpartum depression among 213 Tunisian parturients. 36(7-8): 782-787.
- Mohammad KI, Gamble J, Creedy DK(2011). Prevalence and factors associated with the development of antenatal and postnatal depression among Jordanian women. Midwifery. 27(6): e238-45. Epub 2010 Dec 4.
- Munk Olsen T, Laursen TM, Pedersen CB, Mors O, Mortensen PB(2006). New parents and mental disorders : A population based register study. JAMA. 29(25): 82-2589.
- Naglaa AM, Ghadah AM, Nadia AS, Hamida AK, Abdelhafez Abdelhafez HA, MA(2011). Postpartum depression: prevalence and predictors among women at El Emans Specialized Hospital J. American Sci. 7(12): 122-128.

- Nahas V, Amashaeh N(1999). Culture Care Meanings and experiences of postpartum depression among Jordanian Australian Women. A transcultural Study. J. Transcul. nursing.10: 37. Doi:10.1177/104365969901000113.
- Najafi k, Zarrabi H ,Shirazi M, Avakh F, Nazifi F(2007). Prevalence of postpartum depression in a group of women delivering at a hospital in Rasht City, Iran. J. Pakisthan Psychiatr. society. 4: 2-100.
- Nayel T, Salameh M, Eid Oweis AI, Hameed B, Amarneh M(2006). Unpublished Thesis details, Faculty of Graduate Studies, Jordan University of Sci. Technol.
- O'Hara MW, Swain AM(1996). Rates and risk of postpartum depression: A meta analysis. Int. Rev. psychiatr. 8: 37-54.
- Robertson E, Celsun N, Stewart DE(2003). Risk factors for postnatal depression. WHO publication. 2008.

- Tammentie T, Tarkka M, Astedt-kurki P, Paavilainen E(2002). Sociodemographic factors of families related to postnatal depressive symptoms of mothers. Int. J. nursing practice. 8: 240-246.
- Videback SH(2004). Psychiatric mental health nursing, Lippincott Williams and wilkins: Pp. 333.
- Yount MK, Smith MS(2012). Gender and postpartum depression in Arab Middle Eastern Women. Women's Studies Int. Forum. 35: 187-193. doi:10.1016/j.wsif.2012.03.017.
- Zubaran C,Schumacher M,Roxo MR, Foresti K (2010). Screening tools for postpartum depression:validity and cultural dimensions. African J. Psychiatr.13: 357-365.