P-ISSN: 2617-9806 E-ISSN: 2617-9814



Impact Factor: RJIF 5.2 www.nursingjournal.net

International Journal of Advance Research in Nursing

Volume 4; Issue 1; Jan-June 2021; Page No. 328-335

Received: 11-01-2021 Indexed Journal Accepted: 15-03-2021 Peer Reviewed Journal

Anxiety and depression among antepartum and immediate postpartum women admitted in OBG wards of selected hospitals of Gangtok, Sikkim

Sakila Basnett¹, Binita Khati² and Prerna Karki³

¹MSc. Nursing, Sikkim Manipal College of Nursing Sikkim Manipal University, 5th Mile Tadong, East Sikkim, India

DOI: https://doi.org/10.33545/nursing.2021.v4.i1.E.168

Abstract

Introduction: Antepartum and immediate postpartum anxiety and depression is a major public health problem. The aim of the study was to assess the anxiety and depression among antepartum and immediate postpartum women.

Material and Methods: A descriptive comparative study was conducted among 80 women who were admitted in the selected hospitals of Gangtok, Sikkim undergone normal vaginal delivery. The samples were assessed during the last phase of antepartum period and same women were assessed during the immediate postpartum period (1-4 days) after normal vaginal delivery. The women were selected through purposive sampling technique and the tools used were demographic proforma, personal profile and standardized tool HAM-A and HAM-D. The collected data were analysed using descriptive and inferential statistical methods.

Result: The study found that level of anxiety during antepartum period, among the 25(31.2%) women were normal, 18(22.5%) women had mild anxiety, 27(33.8%) women had moderate anxiety and 10(12.5%) women had severe anxiety whereas in immediate postpartum period, 77(96.2%) women were normal, 1(1.3%) had mild anxiety and 2(2.5%) had moderate anxiety and none had severe anxiety. With regard to level of depression during antepartum period, 38(47.5%) were normal, 35(43.8%) had mild depression, 6(7.5%) had moderate depression and 1(1.2%) had severe depression whereas in immediate postpartum period 67(83.8%) were normal, 9(11.2%) had mild depression and 4(5%) had moderate depression and none had severe depression. The study reveals that there was a significant difference between level of anxiety and depression during antepartum and immediate postpartum period amongst the sample. The study also revealed that there was an association between urban residence with level of anxiety in antepartum women.

Conclusion: The present study concluded that out of 80 women 68.8% women had anxiety and 52.5% women had depression during their antepartum period whereas among the same 80 women only 3.8% of women had anxiety and 16.2% women had depression during their immediate postpartum period. Therefore, the level of anxiety needs to be identified early and more concern and proper counselling by the health care personnel should be provided during routine antenatal care to prevent any untoward pregnancy outcome.

Keywords: Anxiety, depression, antepartum, immediate postpartum women

Introduction

Pregnancy has been defined as a period of well-being that has allowed women to feel biologically complete supported their emotional well-being, caused enjoyment and fulfilment, and at the same time led to a moment to stress and related changes [1].

Globally, around 10% of women during pregnancy and 13% of women after a child birth experience mental disorders, particularly depression. The prevalence rates for mental disorders in developing countries are even higher with 15.6% during pregnancy and 19.8% during the postpartum period (WHO 2016) [2].

According to the National Mental Health Survey-2016, one

in every ten persons in India suffers from depression and anxiety, and 20% of these depressed Indians are pregnant women and new mothers. (Indian Journal of Medical Specialities. 2019)

Anxiety and depression during pregnancy are the major health problem among reproductive aged women. Findings suggest the need for assessment of the risk for prenatal anxiety and symptoms of depression during each antenatal visit and take measures immediately to prevent and manage them [3].

The world Health Organization (WHO) estimates that the depressive disorders will be the second leading cause of global disease burden by 2020 (WHO 2002) [4].

<u>www.nursingjournal.net</u> 328

²Associate Professor, Sikkim Manipal College of Nursing, Sikkim Manipal University, 5th Mile Tadong, East Sikkim, India

³Assistant Professor, Sikkim Manipal College of Nursing Sikkim Manipal University, 5th Mile Tadong, East Sikkim, India

Findings of different studies suggest the need for assessment of the risk for prenatal anxiety and symptoms of depression during each antenatal visit and take measures immediately to prevent and manage them.

Material and Methods

Research approach

A quantitative approach was adopted for this study.

Research design

A descriptive comparative research design was adopted with the intension of assessing the anxiety and depression during ante partum and their immediate postpartum period of women admitted in OBG wards of selected hospitals of Gangtok, Sikkim.

Research Setting

The study was conducted in selected hospitals of Gangtok, Sikkim

Result

Population

The population in the present study consists of women during antepartum and their immediate postpartum (1-4 days) period, admitted in OBG wards of selected Hospitals of Gangtok, Sikkim.

Sample, Sample size and Sampling technique

The sample for the study consisted of 80 women during antepartum period and their immediate postpartum period that were selected by using non-probability purposive sampling technique.

Data collection tools and techniques

Questionnaire on demographic proforma (11 items on demographic information), personal profile (10 items on personal information) and standardized tool HAM-A and HAM-D to assess anxiety and depression had been administered among women during antepartum and their immediate postpartum period.

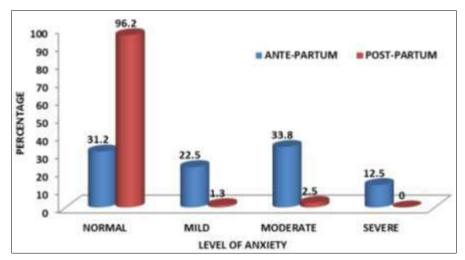
Table 1: Frequency and percentage distribution of demographic proforma of women N=80

Sl. No	Demographic Variable	Frequency (f)	Percentage (%)
1.	Age in		
	a. 19-27 years	45	56.2
	b. 28-36 years	34	42.5
	c. 37-45 years	1	1.3
2	Age at marria	ge (in years)	
	a. 19-27 years	65	81.2
	b. 28-36 years	15	18.8
	c. 37-45 years	0	0
3	Relig		
	a. Hindu	60	75
	b. Muslim	0	0
	c. Buddhist	10	12.5
	d. Christian	10	12.5
	e. Any other	0	0
4	Place of re	esidence	
	a. Rural	43	53.8
	b. Urban	37	46.2
5	Marital	status	
	a. Married	80	100
	b. Unmarried	0	0
6	Educational of	ualification	
	a. Below secondary	52	65
	b. Above secondary	28	35
	 No formal education 	0	0
7	Occup	ation	
	a. House maker	61	76.2
	b. Government employee	16	20
	c. Private employee	3	3.8
	d. Any other	0	0
8	Income per m		
	a. ≤10,000	64	80
	b. 10,000-20,000	6	7.5
	c. 20,000-35,000	10	12.5
	d. 35,001 and above	0	0
9	Type of	family	
	a. Joint	45	56.2
	b. Nuclear	35	43.8
	c. Extended	0	0
10	Family supp	ort system	
	a. Supportive	66	82.5

	b. Satisfactory	13	16.2
	c. Not supportive	1	1.3
11	Spouse support	system	
	d. Supportive	71	88.8
	e. Satisfactory	8	10
	a. Not supportive	1	1.2

Table 2: Frequency and percentage distribution of personal profile of women N=80

Sl. No	Personal profile	Frequency (f)	Percentage (%)
1.	Preg	nancy status	
	a. Planned	71	88.8
	b. Unplanned	9	11.2
2	Number of	of living children	
	a. Yes	25	31.2
	b. No	55	68.8
3	Current w	eek of pregnancy	
	a. 27-33 weeks	0	0
	b. 34-40 weeks	80	100
4	Any histo	ory of miscarriage	
	a. Yes	0	0
	b. No	80	100
5	History	of depression	
	a. Yes	0	0
	b. No	80	100
6	Histo	ry of anxiety	
	a. Yes	0	0
	b. No	80	100
7	Any history	of anxiety in family	
	a. Yes	0	0
	b. No	80	100
8		f depression in family	
	a. Yes	0	0
	b. No	80	100
9		lcohol consumption	
	a. Yes	0	0
	b. No	80	100
10	History o	f substance abuse	
	a. Yes	0	0
	b. No	80	100



 $\textbf{Fig 1:} \ Level \ of \ anxiety \ among \ women \ during \ antepartum \ and \ immediate \ postpartum \ period \ N=80$

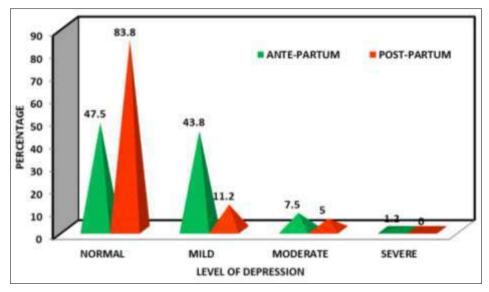


Fig 2: Level of depression among women during antepartum and immediate postpartum period

Table 3: Comparison of level of anxiety among women during antepartum and immediate postpartum period N=80

Level of Anxiety	Mean	SD	't' value	df	'p' value
Ante-partum	16.54	7.725	12.37	79	0.001*
Post-partum	4.70	4.187	12.57	19	0.001

^{*}p<0.05 level of significance

NS-Non significant

The comparison of the level of anxiety of the women during antepartum and immedidate postpartum period was done using paired t test which revealed that (t=12.37, df=79, p value=0.001). It indicates that there is statistically high significant difference between level of anxiety during antepartum and immediate postpartum period.

Table 4: Comparison of level of depression among women during antepartum and immediate postpartum women N=80

Level of Depression	Mean	SD	't' value	df	'p' value
Ante-partum	8.00	4.013	6.219	70	0.001*
Post-partum	4.49	3.504	0.219	19	0.001

^{*}p<0.05 level of significance

NS-Non significant

The comparison of the level of depression of the women during antepartum and immedidate postpartum period was done using paired t test which revealed that (t=6.219, df=79, p value=0.001). It indicates that there is statistically high significant difference between level of depression during antepartum and immediate postpartum period.

Table 5: Association between level of anxiety among antepartum women with their socio-demographic variables N=80

Demographic Variable	Normal	Mild	Moderate	Severe	Chi lue	df	p value
	Age in	years					
a. 19-27 years	14	7	18	6			
b. 28-36 years	11	11	8	4	6.021	6	0.421 NS
c. 37-45 years	0	0	1	0			
Age	at marria	ge (in y	years)				
a. 19-27 years	20	16	22	7			
b. 28-36 years	5	2	5	3	1.547	3	0.672 NS
c. 37-45 years	0	0	0	0			
	Relig	ion					
a. Hindu	17	12	22	9			
b. Muslim	2	4	3	1	7.122	6	0.310 NS
c. Buddhist	6	2	2	0			
d. Christian	0	0	0	0			
	Place of re	esidenc	ee				
a. Rural	17	13	13	0	16.47	3	
b. Urban	8	5	14	10			0.001*
	Marital	status					
a. Married	25	18	27	10			
b. Unmarried	0	0	0	0		NA	
Edu	cational q	ualific	ation				
a. Below secondary	13	12	20	7			
b. Above secondary	12	6	7	3	2.966	3	0.397 NS
c. No formal education	0	0	0	0			
	Occup	ation					
a. House maker	17	13	23	8			
b. Government employee	6	4	4	2	3.918	6	0.688 NS

c. Private employee	2	1	0	0			
d. Any other	0	0	0	0			
Inco	me per m	onth (i	n Rs)				
a. ≤10,000	22	13	22	7			
b. 10,001-20,000	2	1	3	0	7.603	6	0.269 NS
c. 20,001-35,000	1	4	2	3			
d. 35,001 and above	0	0	0	0			
Type of family							
a. Joint	14	10	16	5			
b. Nuclear	11	8	11	5	1.262	3	0.967 NS
c. Extended	0	0	0	0			
Fa	mily supp	ort sys	tem				
a. Supportive	21	15	22	8			
b. Satisfactory	3	3	5	2	2.671	6	
c. Not supportive	1	0	0	0			0.849 NS
Sp	ouse supp	ort sys	tem				
a. Supportive	21	16	24	10			
b. Satisfactory	3	2	3	0	3.562	6	0.736 NS
c. Not supportive	1	0	0	0			
	Pregnanc	y statu	S				
a. Planned	22	15	24	10	1.811	3	0.613 NS
b. Unplanned	3	3	3	0			
Nun	nber of liv	ing chi	ildren				
a. Yes	9	9	4	3	6.610	3	0.085 NS
b. No	16	9	23	7			

^{*}p<0.05 level of significance

NS-Non significant

The association between level of anxiety during antepartum period with their demographic variables was tested by using chi square test at 0.05 level of significance. The demographic variables such as age in years, age at marriage, religion, marital status, education, occupation, income per

month, type of family, family support system, spouse support system, pregnancy status and number of children was not significantly found association with level of anxiety among antepartum women except place of residence.

Table 6: Association between level of anxiety among immediate postpartum women with their socio- demographic variables N=80

Demographic Variable	Normal	Mild	Moderate	Chi value	df	p value
	Age in year	rs				
a) 19-27 years	43	1	1	0.849	4	0.932 NS
b) 28-36 years	33	0	1			
c) 37-45 years	1	0	0			
Age at 1	narriage (i	n year				
a) 19-27 years	62	1	2			
b) 28-36 years	15	0	0	0.719	2	0.689 NS
c) 37-45 years	0	0	0			
	Religion					
a) Hindu	57	1	2			
b) Muslim	10	0	0	1.039	4	0.904 NS
c) Buddhist	10	0	0			
d) Christian	0	0	0			
Plac	ce of resid	ence				
a) Rural	42	1	0	3.204	2	0.201 NS
b) Urban	35	0	2			
	Iarital stat	us				
a) Married	77	1	2	NA		
b) Unmarried	0	0	0			
Educat	ional quali	ficatio	n			
a) Below secondary	49	1	2	2		
b) Above secondary	28	0	0	1.678		0.432 NS
c) No formal education	0	0	0			
	Occupation	n				
a) House maker	58	1	2			
b) Government employee	16	0	0	0.971	4	0.914 NS
c) Private employee	3	0	0			
d) Any other	0	0	0			
Income	per month	i (in R	s)			

a) ≤10,000	61	1	2			
b) 10,001-20,000	6	0	0	0.779	4	0.941 NS
c) 20,001-35,000	10	0	0			
d) 35,001 and above	0	0	0			
Ty	pe of fam	ily				
a) Joint	44	1	0			
b) Nuclear	33	0	2	3.374	3	0.185 NS
c) Extended	0	0	0			
Famil	y support	system				
a) Supportive	65	0	1			
b) Satisfactory	11	1	1	7.055	4	0.133 NS
c) Not supportive	1	0	0			
Spous	e support	system				
a) Supportive	68	1	2			
b) Satisfactory	8	0	0	0.3956	4	0.983 NS
c) Not supportive	1	0	0			
Pre	gnancy sta	atus				
a) Planned	69	1	1	3.192	2	0.203 NS
b) Unplanned	8	0	1			
Number	r of living	childre	en		•	
a) Yes	25	0	0	1.417	2	0.492 NS
b) No	52	1	2			

^{*}p<0.05 level of significance NS-Non significant

The association between level of anxiety during immediate postpartum period with their demographic variables was tested by using chi square test at 0.05 level of significance.

There was no significant association between level of anxiety and their demographic variables.

Table 7: Association between level of depression among antepartum women with their socio-demographic variables N=80

Demographic Variable	Normal	Mild	Moderate	Severe	Chi value	df	p value			
	Age in									
a) 19-27 years	23	19	2	1						
b) 28-36 years	14	16	4	0	3.774	6	0.707 NS			
c) 37-45 years	1	0	0	0						
Age at marriage (in years)										
a) 19-27 years	31	27	6	1						
b) 28-36 years	7	8	0	0	2.006	3	0.571 NS			
c) 37-45 years	9	0	0	0						
Religion										
a) Hindu	27	27	5	1						
b) Muslim	5	5	0	0	2.186	6	0.902 NS			
c) Buddhist	6	3	1	0						
d) Christian	0	0	0	0						
	Place of r	esiden	ce							
a) Rural	17	23	2	1	5.124	3	0.163 NS			
b) Urban	21	12	4	0						
	Marital	status								
a) Married	38	35	6	1						
b) Unmarried	0	0	0	0	NA					
Edu	icational o	qualifi	cation							
a) Below secondary	25	24	3	0						
b) Above secondary	13	11	3	1	2 .657	3	0.448 NS			
c) No formal education	0	0	0	0						
	Occup	ation								
a) House maker	27	28	5	1						
b) Government employee	9	6	1	0	1.516	6	0.958 NS			
c) Private employee	2	1	0	0						
d) Any other	0	0	0	0						
Income per month (in Rs)										
a) ≤10,000	33	26	4	1						
b) 10,001-20,000	2	3	1	0	3.060	6	0.801 NS			
c) 20,001-35,000	3	6	1	0						
d) 35,001 and above	0	0	0	0						
	Type of	family	у				_			

23	17	4	1			
15	18	2	0	2.163	3	0.539 NS
0	0	0	0			
mily supp	ort sy	stem				
33	27	5	1			
4	8	1	0	3.221	6	0.781 NS
1	0	0	0			
ouse supp	ort sy	stem				
35	30	5	1			
2	5	1	0	3.086	6	0.798 NS
1	0	0	0			
Pregnand	y stati	ıs				
35	30	5	1	1.055	3	0.788 NS
3	5	1	0			
nber of liv	ving ch	nildren	•			
11	11	3	0	1.531	3	0.675 NS
27	24	3	1			
	15 0 umily supp 33 4 1 pouse supp 35 2 1 Pregnanc 35 3 3 hber of liv	15 18 0 0 unily support sy 33 27 4 8 1 0 couse support sy 35 30 2 5 1 0 Pregnancy state 35 30 3 5 nber of living ch	15 18 2 0 0 0 0 unily support system 33 27 5 4 8 1 1 0 0 couse support system 35 30 5 2 5 1 1 0 0 Pregnancy status 35 30 5 3 5 1 nber of living children 11 11 3	15 18 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 18 2 0 2.163 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 18 2 0 2.163 3 0 0 0 0 0 unily support system 33 27 5 1 4 8 1 0 3.221 6 1 0 0 0 ouse support system 35 30 5 1 2 5 1 0 3.086 6 1 0 0 0 Pregnancy status 35 30 5 1 1.055 3 3 5 1 0 nber of living children 11 11 3 0 1.531 3

^{*}p<0.05 level of significance NS-Non significant

The association between level of depression during antepartum period with their demographic variables was tested by using chi square test at 0.05 level of significance.

There was no significant association between level of depression and their demographic variables.

Table 8: Association between level of depression among immediate postpartum women with their Socio-demographic variables N=80

Demographic Variable	Normal	Mild	Moderate	Chi value	df	p value
	Age in yea	rs				
a) 19-27 years	35	7	3			
b) 28-36 years	31	2	1	2.760	4	0.599 NS
c) 37-45 years	1	0	0			
Age at a	marriage (in year	rs)			
a) 19-27 years	52	9	4			
b) 28-36 years	15	0	0	3.582	2	
c) 37-45 years	0	0	0			0.167 NS
· • • • • • • • • • • • • • • • • • • •	Religion			•		
a) Hindu	50	6	4			
b) Muslim	7	3	0	6.209	4	0.184 NS
c) Buddhist	10	0	0			
d) Christian	0	0	0			
Plac	ce of resid	ence		•		
a) Rural	35	7	1	3.482	2	0.175 NS
b) Urban	32	2	3			
N	Iarital stat	us		·		
a) Married	67	9	4	NA		
b) Unmarried	0	0	0			
Educat	ional qual	ificatio	on			
a) Below secondary	44	4	4			
b) Above secondary	23	5	0	3.839	2	0.147 NS
c) No formal education	0	0	0			
Occupation						
a) House maker	50	8	3			
b) Government employee	14	1	1	1.227	4	0.874 NS
c) Private employee	3	0	0			
d) Any other	0	0	0			
	per montl	h (in R	(s)	l.		
a) ≤10,000	52	8	4			
b) 10,001-20,000	5	1	0	2.734	4	0.603 NS
c) 20,001-35,000	10	0	0			
d) 35,001 and above	0	0	0			
	ype of fam	ily			-	ı
a) Joint	37	6	2			
b) Nuclear	30	3	2	0.489	2	0.783 NS
c) Extended	0	0	0		Ė	
	y support	-		I.		1
a) Supportive	54	8	4			

b) Satisfactory	12	1	0	1.326	4	0.857 NS
c) Not supportive	1	0	0			
Spouse support system						
a) Supportive	58	9	4			
b) Satisfactory	8	0	0	1.968	4	0.742 NS
c) Not supportive	1	0	0			
Pregnancy status						
a) Planned	60	7	4	1.635	2	0.441 NS
b) Unplanned	7	2	0			
Number of living children						
a) Yes	22	1	2	2.432	2	0.296 NS
b) No	45	8	2			

^{*}p<0.05 level of significance

NS-Non significant

There was no significant association between level of depression and their demographic variables.

Discussion

These findings of the present study are consistent to the findings reported by Silwa Muna *et al.* ^[3] where 8% of the subjects had severe level of anxiety, 22% had moderate and 70% had mild level of anxiety.

The findings of the present study are similar to the findings reported by Priyambada Krishna *et al.* ^[5] which finds a significantly higher antenatal anxiety during third trimester of pregnancy.

The findings of the study are inconsistent with the findings of the study of Rahila Ghaffar, Qaiser Iqbal, Adnan Khalid, Fahad Saleem *et al.* ^[6] which depicted that urban pregnant women were suffering from anxiety and depression.

The findings of the study are inconsistent with the findings of the study of Priya Adity, Chaturvedi Sanjay et.al.⁷ which depicted that 25.5% and 63% antenatal women from urbanized village.

Conclusion

The present study concluded that 68.8% women had anxiety during antepartum period and 3.8% women had anxiety during immediate postpartum period whereas 52.5% women had depression during antepartum period and 16.2% women had depression during immediate postpartum period. Therefore, there is a need to incorporate screening for anxiety and depression in antenatal period and providing practical support to women during pregnancy. Pregnancy-related anxiety must be identified early during routine antenatal care to prevent any untoward pregnancy outcomes.

References

- 1. Murtaja FF, Thabet AA. Anxiety and depression among pregnant women in the Gaza Strip. Psychology and cognitive sciences Open J 2017;3(4):137-44.
- World Health Organization 2016b. Maternal mental health. (Accessed 1.4.2016). http://www.who.int/mental_health/maternalchild/maternal_mental_health/en/.
- Silwal Muna, Jacob V, Imran S. A descriptive study to assess the level of anxiety and depression among antenatal mothers in a selected hospital, Mangalore, with a view to develop an information booklet. International Journal of Recent Scientific Research 2015;6(8):5699-5703.
- 4. World Health Organization, Mental health: Responding

- to the call for Action, 2002, http://apps.who.int/gb/archive/pdf files/WHA55/ea5518.pdf.
- 5. Priyambada Krishna, Pattojhosi Amrit, Bakhla. Ajay K. A study of antenatal anxiety: comparison across trimesters. 2017;6(5):1810-1813.
- 6. Ghaffar R, Iqbal Q, Khalid A, Saleem F, Hassali MA, Baloch NS. Frequency and predictors of anxiety and depression among pregnant women attending tertiary healthcare institutes of Quetta City, Pakistan. BMC women's health 2017;17(1):51.
- 7. Priya A, Chaturvedi S, Bhasin SK, Bhatia MS, Radhakrishnan G. Depression, anxiety and stress among pregnant women: A community-based study. Indian journal of psychiatry 2018;60(1):151.

<u>www.nursingjournal.net</u> 335