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# KNOWLEDGE AND RELATED SELF-CARE PRACTICE REGARDING RESTLESS LEG SYNDROME (RLS) AMONG ANTENATAL MOTHERS.

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Abstract: Background: The prevalence of restless leg syndrome(RLS) in pregnant women is 19-26% as compared to general population. RLS is more common in the last trimester. The international restless leg syndrome study group has recommended that pregnant women use conservative measures to treat RLS, it entails avoiding factors that can increase the likelihood of having RLS.

Aim: To determine the knowledge and related self-care practice of restless leg syndrome among antenatal mothers.

**Methodology:** Quantitative research approach was adopted. Total 210 participants were selected through convenient sampling technique. Data were collected by administering Socio-demographic Performa. A structured questionnaire was administered. The data was analyzed by using descriptive and inferential statistics.

**Results:** The result showed that the prevalence of RLS in Indian pregnant was 54.8%. The mean knowledge score + SD was (9.01 + 2.47) of the antenatal mothers. The mean percentage of knowledge score was 56.25%. The total knowledge score was 18, and range of knowledge score of antenatal mothers was 3-16.Description of practice score regarding management of RLS. The total practice score was 36. The mean practice score + SD was (14.71 + 3.79). The mean percentage was 54.4%. and range of practice score was 6-27. There was a significant correlation r = 0.71 between knowledge score and practice score of antenatal mothers regarding restless leg syndrome.

**Conclusion:** The study concluded that the participants had not adequate knowledge and practice regarding restless leg syndrome. By giving written and pictorial pamphlet at the time of data collection, antenatal mothers motivated to read this pamphlet it may improve the knowledge and practice regarding restless leg syndrome.

## Index Terms - Knowledge, Self care practice, Restless leg syndrome

#### **I.INTRODUCTION**

Every pregnant woman has a unique pregnancy experience. As a result, every woman's pregnancy experience is new and distinct. Most of the discomforts experienced by pregnant women are caused by hormonal changes or physical changes caused by the growing uterus. 1

Pregnant women are at least two to three times higher risk of experiencing restless leg syndrome than the general population. Restless leg syndrome during pregnancy is associated with adverse maternal and fetal outcomes.<sup>2</sup>

Pregnancy has been identified as a significant risk factor that can both trigger and worsen RLS. Restless leg syndrome affects pregnant women rise in the third trimester and usually goes after delivery. It was discovered that restless leg syndrome is associated with history of RLS in previous pregnancy, history of RLS prior to conception, consumption of caffeinated drinks in pregnancy, HB level < 11g/dl and inadequacy of iron supplementation during pregnancy.<sub>3</sub>

Apart from avoiding the causes, no other way of preventing restless leg syndrome has been established or researched. If restless leg syndrome is caused by a specific cause, treating those causes may help in the withdrawal or reduction of restless leg syndrome. Another goal of this syndrome is to improve the quality of life, it entails reducing daytime sleepiness and improving sleep quality in pregnant women.<sup>5</sup>

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(n=210)

#### 2.OBJECTIVES: Primary Objectives

- 1. To identify the prevalence of restless leg syndrome among antenatal mothers.
- 2. To assess the level of knowledge of antenatal mothers regarding restless leg syndrome.
- 3. To assess the self-care practice of antenatal mothers regarding restless leg syndrome.

# Secondary Objectives

- 4. To determine the correlation between knowledge score and self-care practice score of antenatal mothers regarding restless leg syndrome.
- 5. To determine the association between level of knowledge with their selected demographic variables.
- 6. To determine the association between self-care practice scores with their selected demographic variables.

# 3. Methodology

Quantitative research approach was adopted total 210 participants were selected through convenient sampling technique. Research study was conducted in antenatal OPD of Himalayan Hospital, Dehradun Uttarakhand. Data were collected by administering Sociodemographic Performa, structured knowledge and practice questionnaires. The data was analyzed by using descriptive and inferential statistics.

# 4. Result:

# 4.1 Table no. 1 Frequency and percentage distribution of socio demographic characteristics of Antenatal Mothers.

S. No	VARIABLES	FREQUENCY	PERCENTAGE
1.	Age in years		
	19-23 year	36	17.1%
	24-28 year	98	46.7%
	29-33 year	61	29.0%
	34-38 year	15	7.1%
2.	EDUCATIONAL STATUS		
	No formal education		
	Primary education	9	4.3%
	Secondary education	50	23.8%
	Senior secondary education	85	40.5%
	Graduate and above	51	24.3%
		15	7.1%
3.	TYPE OF FAMILY	10	
5.	Nuclear	58	27.6%
	Joint	112	53.3%
	Extended	40	19.0%
	Extended	T	19.070
4.	AREA OF LIVING		3
	Rural	97	46.2%
	Semi urban	89	42.4%
	Urban	24	11.4%
5.	OCCUPATIONAL STATUS		11.170
5.	Home Maker	163	77.6%
	Private Job	27	12.9%
	Government Job	2	1.0%
	Self Employed		8.6%
6.	TYPE OF WORK	10	0.070
0.	Heavy Work	138	65.7%
	Moderate Work	23	11.0%
	Sedentary Work	49	23.3%
7.	DIETARY PATTERN	49	23.370
1.	Vegetarian	48	22.9%
	Non-Vegetarian	48	71.4%
		130	
8.	Eggetarian GRAVIDA	12	5.7%
ð.	GRAVIDA Primi	117	55 79/
		117	55.7%
0	Multi	93	44.3%
9.	TRIMESTER		14.2
	First	30	14.3
	Second	91	43.3
	Third	89	42.4

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10.	Hemoglobin Level		
	Below or at 10g/dl	112	53.3%
	Above 10g/dl	98	46.7%
11.	Any Complications during pregnancy		
	YES		
	Anemia	66	31.4%
	Hypothyroidism	20	9.5%
	Hypertension	29	13.8%
	GDM	11	5.2%
	NO	6	2.9%
12.		144	68.6%
	<b>Do you feel restlessness/pain in legs?</b> YES		
	NO	174	82.9%
		36	17.1%
13.(a)	Previous knowledge regarding RLS		
	a) YES		
	b) NO	85	40.5 %
		125	59.5%
13.(b)	If yes, then specific source of knowledge:		
	YES	0.	
	Family members	85	40.5%
	Previous experience	45	21.4%
	Health worker	18	8.6%
	Media/book	9	4.3%
	NO	13	6.2%
		125	59.5%

Table	no	2:	Prevalence	e of	Restless	Leg	<b>Syndrome</b>	during	pregnancy	among	antenatal	mothers.
<u>(n=210</u>	)	_		A								
Varia	ble			Freque	ency	Ţ	Percent	nge (%)				
Preva	lence			115			54.8%			/		

Table no. 2 shows that prevalence of restless leg syndrome among antenatal mothers was 54.8%.

Table no. 3	3: Knowledge	score regardin	g restless leg sync	lrome among antenata	al mothers (n=210)

Variable	Maximum Score	Range	Mean <u>+</u> S.D	Median	Mean Percentage
Knowledge	18	3-16	9.01 <u>+</u>	9.0	56.25%
Score			2.47		

Table 3 Shows that knowledge score of antenatal mothers regarding restless leg syndrome. The range was 3-16, Mean  $\pm$  S.D

9.01  $\pm$ 2.47 with Median 9.0 and the Mean % was 56.25%.

Figure no. 1: Percentage distribution of Knowledge score regarding restless leg syndrome among antenatal mothers

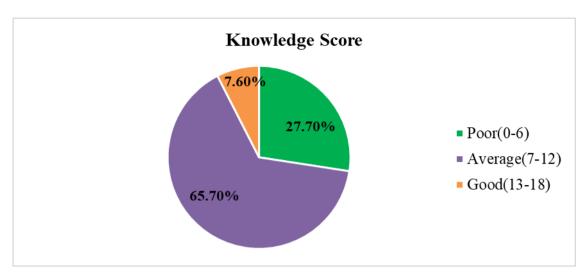


Figure no 4. It represents that the level of knowledge distribution, (7.60%) of the participants were having good knowledge and (65.70%) of the antenatal mothers were having average knowledge and (27.70%) antenatal mothers were having poor knowledge regarding restless leg syndrome during pregnancy

Table no.4 Area	a wise Mean, S	SD & M <mark>ean Pe</mark>	ercentage Knowledge	e score regarding restless	s leg syndrome among antenatal
mothers. n=210					

S.no		Area (Domains)	Max. Scor e	Mean <u>+</u> SD	Media n	Mean %
1		Introduction of restless leg syndrome	4	2.39 ±.953	2	59.75%
2	3	Causes & Risk Factors	3	0.93 <u>+</u> 0.780	1	23.35%
3		Sign & symptoms	5	2.52 ±.924	2	63.75%
4		Management & prevention	6	3.2 +1.215	3	79%

Table no 4 - Data represents that the level of knowledge according to area wise, In introduction, the mean  $\pm$  SD score was  $(2.39 \pm .953)$  and mean % was (59.75%), causes and risk factors of mean  $\pm$  SD score was  $(0.93 \pm 0.780)$  mean % (23.35%), Sign & symptoms mean  $\pm$  SD score was  $(2.52 \pm .924)$  mean % (63.75%), Management & prevention mean  $\pm$  SD score was  $(3.2 \pm 1.215)$  mean % was (79%).

Table no.5: Distribution of Practice score regarding restless leg syndrome among antenatal mothers.(n=210)

Variable	Maximm Score	Range	Mean <u>+</u> S. D	Median	Mean %
Practice Score	36	6-27	14.71 <u>+</u> 3.79	14.0	54.4%

Table 5. shows the Practice score regarding restless leg syndrome among antenatal mothers. The range of practice score was 6-27, Mean  $\pm$ S.D (14.71.  $\pm$ 3.79) with Median 14.0 and the Mean % was 54.4%.

Figure no.2 Percentage wise distribution of self -reported practice regarding restless leg syndrome among antenatal mothers.

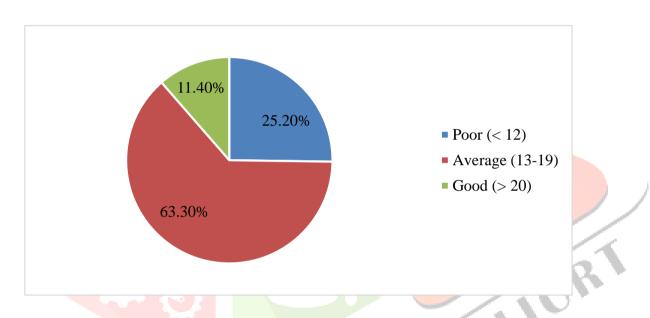


Table 6. correlation between knowledge score and self-practice score regarding restless leg syndrome among antenatal mothers.

S.No	Variable	r value	P<0.005
1.	Knowledge Score		.000 <0.0001
2.	Practice Score	0.71	.000 \0.0001

Table 6. shows the moderate positive significant corelation of knowledge score with practice score regarding restless leg syndrome among antenatal mothers.

Table no.7 Association between levels of knowledge with their selected demographic variables.

S.n	Variable	Level of Know	<i>x</i> <sup>2</sup>	P<0.005	
		Below median (< 9)	At or above median (> 9)		
1.	<b>Age of mothers</b> 19 -28 29-38	<b>65</b> 59	<b>69</b> 17	17.01	* <0.0001
2.	Educational status No formal education Education	34	25	.068	.794
3.	<b>Type of family</b> Nuclear Joint	90 26 98	61 32 54	6.701	.010*
4.	Area of living Rural Urban	57 67	40 <b>46</b>	.006	.938
5.	Occupational status Employed Unemployed	<b>105</b> 19	<b>58</b> 28	8.684	.003*
6.	Type of work Heavy work Light work	<b>87</b> 37	<b>50</b> 36	3.236	0.72
7.	<b>Gravida</b> Primigravida Multigravida	72 52	45 41	.678	.410
8.	Trimester First Second Third	19 <b>60</b> 45	11 31 44	4.663	.097
9.	PreviousexposureRLSYESNOYES	<b>33</b> 9	<b>52</b> 34	24.15	* <0.0001

Table no 7 the data shows that association of level of knowledge with selected demographic variables. There were statically significant association found with the level of knowledge with age, type of family, occupational status and previous exposure to restless leg syndrome.

 Table 8. Association between selfcare practice score regarding restless leg syndrome among antenatal mothers with their selected demographic variable.
 (n=210)

S.No.	Variable	Level of pract	ice	<i>x</i> <sup>2</sup>	P <0.005
		Below median <14	Above median>14	_	
1.	Age of mothers 19 -28				
	29-38	46 <b>62</b>	<b>88</b> 14	43.34	<0.0001*
2.	Occupational Status Employed				
	Unemployed	<b>86</b> 22	<b>77</b> 25	.517	.472
3.	Educational status				
	No formal education Education	37 <b>71</b>	22 80	4.182	.041*
4.	<b>Area of living</b> Rural	51	46	.095	.758
	Semi urban	57 57	56	.095	.758
5.	Type of work Heavy work	62	75	6.012	.014*
	Light work	46	27		
6.	Complications Anemia Hypothyroidism	12 14	8 15	F	, ,
	Hypertension GDM NO	7 0 75	4 6 69	7.738	.102
7.	Previous exposure to RLS YES			10	<b>N</b>
	NO	33 75	52 50	9.083	.001*
8.	Hemoglobin Below and at 10 g/dl Above 10 g/dl	69	41	11.805	.001*
		39	61	11.005	
9.	<b>Gravida</b> Primigravida Multigravida	<b>57</b> 51	<b>60</b> 42	.777	.318

Table 8. The data shows that association of level of practice with selected demographic variables. There were statically significant association found with the level of practice with age of antenatal mothers, educational status, type of work, previous exposure to restless leg syndrome and hemoglobin level.

### 5.Discussion:

The study result was based on the objective and hypothesis with comparison of other study in the same area.

To identify the prevalence of restless leg syndrome among antenatal mothers.

The present study shows the prevalence of restless leg syndrome during pregnancy, that most of 54.8% antenatal mothers were suffering from restless leg syndrome. This finding correlated with **Dr. Soma Habib, Dr. Muhammed Asif, Dr. EromTanveer, Dr. Muhammed Riaz Baig Chugtai,et.al.(2018)** conducted an observational study on 370 pregnant females to investigate the prevalence of restless leg syndrome during pregnancy and its associated factor at different private and govt. Hospital of Karachi. Study results showed that moderate restless leg syndrome was 6.9%, prevalence of severe restless leg syndrome was 47.1, the prevalence of very severe restless leg syndrome was 46.1%. This study also concluded that there is the high prevalence of restless leg syndrome in 3<sup>rd</sup> trimester, and there are various factors responsible for causing restless leg syndromes such as genetic factors, physiological change, hormonal factors and dietary factors during pregnancy.

# To assess the level of knowledge regarding restless leg syndrome among antenatal mothers

In present study the level of Knowledge of antenatal mothers shows that (7.60%) of the participants were having good knowledge and (65.70%) of the antenatal mothers were having average knowledge and (27.70%) antenatal mothers were having poor knowledge regarding restless leg syndrome during pregnancy.

Similar study conducted by **A. Gurung, A Dangwal, G Saini et.al. (2020)** to assess Knowledge regarding Restless leg syndrome during pregnancy. In this study the knowledge score of Pregnant women average knowledge score was (24.03%), Good knowledge score was (55.76%), and Very Good knowledge score was (20.19%).

#### 6.Conclusion

A descriptive study was conducted to assess the prevalence, knowledge and practice of antenatal mothers regarding Restless Leg Syndrome during pregnancy. This study concluded that out of 210 participants, 54.8%(115) antenatal mothers were suffering from Restless Leg Syndrome during pregnancy, and about 7.6% of the antenatal mothers were having good knowledge regarding Restless Leg Syndrome during pregnancy whereas only 11.4% of antenatal mothers were having good practice regarding restless leg syndrome during pregnancy.

### REFERENCES

[1] Bhuvaneswari K. Minor ailments of pregnancy and their home remedies. Nightingale Nursing Times 2010 December; 6(9): 9-12.

- [2] Manconi Mauro, Granieri Enrico "Pregnancy is a risk factor for restless leg syndrome" 2014 may Journal of Sleep Medicine; vol5[3]; 305-08.
- [3] R.Gupta, M. Dhyani, T. Kendzerska, S. R. Pandi-Perumal Restless legs syndrome and pregnancy: prevalence, possible pathophysiological mechanisms and treatment, PMC 2017 Aug 18.
- [4] Akbaş P, Sözbir ŞY. Restless legs syndrome and quality of life in pregnant women. Revista da Associação Médica Brasileira. 2019 May;65(5):618-24
- [5]Agarwal Akshata, Dietary Supplements, Women's Health, January 10th, 2014, https://www.inlifehealthcare.com/2014/01/10/pregnancy-care-iron-with-folic-acid-supplements/
- [6] Walter AS, Aldrich MS, rt al. Towards a better definition of the restless leg syndrome. Movement Disorder Society. 1995 Sep;10(5):632-42

