

Dr. Vimal Chandra Bhagat¹, Dr. Rajesh Kumar Ajagallay²*,Dr. Gaukaran Janghel³,Viyata Chanda⁴, Dr. Rakesh Kumar Agrawal⁵, Dr. Neelam Naik⁶

ABSTRACT

Background: Erectile dysfunction (ED) is defined as the inability to attain or maintain a penile erection sufficient for successful vaginal intercourse. ED is a common problem worldwide that affects men with increasing age. ED not only deteriorates sexual life of men but also makes them prone to experience psychological distress. *Aim:* Present study aimed at investigating the demographical profile and psychological factors were correlated with the ED. *Methods:* The cross-sectional study design with the total 197 patients in ED were selected in 18 to 60-year age groups, from Late Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, C.G., India (LAMGMC) and associated hospital. The $\chi 2$ test was used for analyzing the data. *Results:* Total 197 patients were selected, the majority of the patients were mildly affected by ED (n=99, 50.9%). There were Significant correlations between patient's psychological factors e.g. Dissatisfaction on household income (P=0.030), Blame themselves (P= 0.001), feeling of guilt (P=0.000), less desirable (P= 0.000), feeling hurt (P= 0.000), feeling of anger or bitterness (P=0.000), depression (P=0.005), feeling like a failure (P=0.000), Worry of ED will affect closeness with a partner (P= 0.000), and worry for a future relationship (P= .001), and the association of socio demographic factors were insignificant. *Conclusion:* ED is a significant

¹ [MD, Psychiatry] Assistant Professor, Late Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, C.G., India

² [MD, Psychiatry] Associate Professor & HOD, Late Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, C.G., India

³ [Ph. D, Psychology] Clinical psychologist, Late Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, C.G., India

⁴ M. Phil Psychology, Clinical Psychologist, Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, CG, India

⁵ MBBS, Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, CG, India

⁶ MBBS, Lakhiram Agrawal Memorial Govt. Medical College, Raigarh, CG, India

^{*}Responding Author

Received: February 8, 2017; Revision Received: March 3, 2017; Accepted: March 10, 2017

^{© 2017} Bhagat V, Ajagallay R, Janghel G, Chanda V, Agrawal R, Naik N; licensee IJIP. This is an Open Access Research distributed under the terms of the Creative Commons Attribution License (www.creativecommons.org/licenses/by/2.0), which permits unrestricted use, distribution, and reproduction in any Medium, provided the original work is properly cited.

health problem and affect psychological well-being of patients. Besides pharmacological therapy, patient education on ED also plays an important role in the management of ED. Assessment early diagnosis and treatment of ED and psychological problems are crucial for patients, as untreated psychological problems can further worsen the ED condition as well as impair patients' overall QoL.

Keywords: Erectile Dysfunction, Psychological Factors

Erectile dysfunction (ED) is a common problem worldwide that affects men with increasing age. Inadequate penile erection or erectile dysfunction is defined as the inability to attain or maintain a penile erection sufficient for successful vaginal intercourse (National Institutes of Health Consensus Development Panel, 1993). This clinical disorder was described in early historical records, with descriptions of poor penile erection in men found in ancient Egyptian scriptures that are more than 5000 years old (Shah, 2002).

Erectile dysfunction (ED) is a common medical disorder worldwide that primarily affects men older than 40 years of age (Lewis, Fugl-Meyer, Corona, Hayes, Laumann, Moreira Jr, & Segraves, 2010), with 22.5% of men aged between 40 and 80 years reporting to have ED in the United States (McCabe, & Althof, 2014). The Prevalence of ED was 6.4% in the Asian males, across the 20–75 years age range. The prevalence of ED across all regions increased with age, with the highest rates seen in men aged >60 years (Tan, Low, Ng, Chen, Sugita, Ishii, & Sand, 2007).

Several epidemiological studies have shown that Diabetes mellitus, hypertension, hyperlipidemia, metabolic syndrome, depression, and lower urinary tract infections are significant risk factor for erectile dysfunction. Findings from other studies have shown that certain environmental and lifestyle factors, such as smoking, obesity, and limited or an absence of physical exercise, might also be important predictors of erectile dysfunction (Shamloul, & Ghanem, 2013).

The association of depression and erectile dysfunction (ED) has been firmly established, in the patients, those who suffer from minor depression, and restoration of erectile capacity can lead to an improvement in mood. Diagnosing depression in ED patients is important, not only because depressed patients are more likely to drop out of treatment for ED, but also because untreated depression can be life-threatening (Makhlouf, Kparker, & Niederberger, 2007; Seagraves, 2000). Erectile dysfunction not only deteriorates sexual life of men and his spouse but also makes them prone to experience psychological distress (Huri, Sanusi, Razack, & Mark, 2016; Latini, Penson, Colwell, Lubeck, Mehta, Henning, & Lue, 2002). The psychological impact of ED can be seen in their current marital relationship, the willingness to discuss ED, the feeling of guilt and denial,

depression, anger, a decrease in self-confidence and self-esteem, as well as the feeling of failure as a man.

A series of studies have been conducted in search of the psychological factors and to describe the demographic profile of the patients with ED (Huri, et al., 2016; Shamloul, & Ghanem, 2013; Makhlouf, et al., 2007; Latini, et al., 2002; Seagraves, 2000). As a step towards an even more precise depiction of ED as a psychological and social challenge, we have conducted the current study. The objectives of this study were to investigate 1) the magnitude of ED within a sample of Raigarh Chhattisgarh adults, and 2) Psychological factors of ED in this population. Although in part, this is a replication of previous studies, this study is the first to examine the demographic features of ED and to explore the psychological factors within the same sample.

Objective

The main objective of the present study was to investigate the correlation of demographical profile and psychological factors with the erectile dysfunction.

METHODOLOGY

Sample

The study was conducted at the department of Psychiatry, LAMGMC and associated hospital. From July 2016 to January 2017. Total 210 patients were approached for the treatment at Department of Psychiatry LAMGMC Raigarh. Out of these 210 patients, 14 respondents were excluded, as they did not fulfill the inclusion criteria, or not agreed to take part in the study. As a result, only 196 patients were eligible and completed the study.

Inclusion criteria

Patients who visited the hospital with the history of erectile dysfunction (between 18 to 60 years of age group). Patients with erectile dysfunction having repeated failure to perform sexual acts due to inadequate penile erection (ED for >3 months duration) and amenable for interview were included in the study.

Exclusion criteria

Patients with vision or hearing impairments, intellectual impairment, sever medical complications were excluded from the study. Informed consent was obtained from patients before the data collection.

Research design

A cross-sectional study design and purposive sampling technique was used.

Measures

Sociodemographic data were collected using structurally designed sociodemographic questionnaire containing basic demographic details of the patients. Psychological factors were assessed using a Cognitive psychological scale based on Erectile Dysfunction - Effect on Quality of Life (ED-EQoL, Huri, et al., 2016).

Each psychological question was scored as 0 - not affected at all, 1 - affected a little, or 2 - affected somewhat. The total cumulative score was calculated, and a score of less than 15 indicated that the patient was mildly affected by ED, a score of 15–28 indicated that the patient was moderately affected by ED, and a score of 29 and greater indicated that the patient was severely affected by ED.

Data Analysis

The patients' sociodemographic details were analyzed using descriptive statistics. The descriptive statistics were expressed as frequency (N, %) and mean \pm standard deviation. The association between psychological factors, demographic factors and ED was assessed by using Pearson's χ^2 correlation.

RESULT			
Table no. 1 Overall psychological scales			
Mild	99	(50.5)	
Moderate	75	(38.3)	
Sever	22	(11.2)	

Note: *Data reported as number (percentage).*

Table no. 1 shows the overall psychological factors and it reveals that the majority of the patients were mildly affected 99 (50.9%), 75 (38.3%) Moderate and 22 (11.2%) were sever affected with erectile dysfunction.

Table no. 2 Patients' demographic characteristics

Demographic	Number	percentage
Characteristics	of patients	
Age		
Mean±SD	29.77±7.05	
Religion		
Hindu	143	73.0
Muslim	19	9.7
Sikh	8	4.1
Christian	26	13.3

Education

2444440		
Primary	54	27.6
Higher -Secondary	88	44.9
Graduate	46	23.5
Postgraduate	8	4.1
Occupation		
Employed	166	84.7
Unemployed	30	15.3
Marital Status		
Married	94	48.0
Unmarried	102	52.0
Locality		
Rural	148	75.5
Urban	40	20.4
Semi-urban	8	4.1
Family Type		
Nuclear	93	47.4
Joint	103	52.6

Demographic Characteristics

Table no.2 shows that all the subjects are aged between 18-45 years with the mean age of 29.77 ± 7.05 . The majority of the patients were educated up to higher-secondary level (n= 88; 44.9%), employed (n=166; 84.7%), belonged to Hindu religion (n= 143; 73%), unmarried (n=102, 52.0%), residing in rural area (n=148, 75.5%), and living in a joint family (n=103; 52.6%).

Psychological	Psyc	Psychological-scale			χ2 p- va	alue	
Factors	Mild	Moderate	Sev	ver			
Dissatisfaction on household income							
Not at all	17	7	1	25	10.68	.030*	
A little	60	37	11	108			
Somewhat	22	31	10	63			
Blame themselves							
Not at all	48	28	1	77	17.57	.001*	
A little	29	22	8	59			
Somewhat	22	25	13	60			
Feelings of guilt	Feelings of guilt						
Not at all	16	6	1	23	22.10	.000*	

Table No. 3 Psychological factors associated with ED patients

© The International Journal of Indian Psychology, ISSN 2348-5396 (e) | ISSN: 2349-3429 (p) | 18

	A little	68	42	8	118		
	Somewhat	15	27	13	55		
Less Desi	irable						
	Not at all	62	21	1	84	46.14	.000*
	A little	25	21	6	52		
	Somewhat	12	33	15	60		
Feeling h							
	Not at all	8	7	0	15	20.25	.000*
	A little	76	50	9	135		
	Somewhat	15	18	13	46		
Feel "less							_
	Not at all	12	5	0	17	24.46	$.000^{a}$
	A little	81	55	12	148		
	Somewhat	6	15	10	31		
Angry or							
	Not at all	80	36	1	117	63.27	.000*
	A little	13	25	7	45		
	Somewhat	6	14	14	34		
Depressi	Dn						
-							*
•	Not at all	6	3	0	9	4.42	.005*
•	Not at all A little	19	9	2	30	4.42	.005*
_	Not at all A little Somewhat					4.42	.005*
Low self-	Not at all A little Somewhat esteem	19 74	9 63	2 20	30 157		
_	Not at all A little Somewhat esteem Not at all	19 74 13	9 63 1	2 20 0	30 157 14	4.42 14.75	.005 * .351 ^a
_	Not at all A little Somewhat esteem Not at all A little	19 74 13 6	9 63 1 9	2 20 0 0	30 157 14 15		
Low self-	Not at all A little Somewhat esteem Not at all A little Somewhat	19 74 13	9 63 1	2 20 0	30 157 14		
_	Not at all A little Somewhat esteem Not at all A little Somewhat a failure	19 74 13 6 80	9 63 1 9 65	2 20 0 0 22	30 157 14 15 167	14.75	.351 ^a
Low self-	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all	19 74 13 6 80 51	9 63 1 9 65 23	2 20 0 0 22 1	30 157 14 15 167 75		
Low self-	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little	19 74 13 6 80 51 33	9 63 1 9 65 23 21	2 20 0 0 22 1 10	30 157 14 15 167 75 64	14.75	.351 ^a
Low self- Feel like	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat	19 74 13 6 80 51	9 63 1 9 65 23	2 20 0 0 22 1	30 157 14 15 167 75	14.75	.351 ^a
Low self- Feel like	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat et down partner	19 74 13 6 80 51 33 15	9 63 1 9 65 23 21 31	2 20 0 22 1 10 11	30 157 14 15 167 75 64 57	14.75 27.61	.351 ^a .000*
Low self- Feel like	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat Ittle Somewhat Iet down partner Not at all	19 74 13 6 80 51 33 15 11	9 63 1 9 65 23 21 31 6	2 20 0 22 1 10 11 0	30 157 14 15 167 75 64 57 17	14.75	.351 ^a
Low self- Feel like	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat let down partner Not at all A little	19 74 13 6 80 51 33 15 11 86	9 63 1 9 65 23 21 31 6 6 62	2 20 0 22 1 10 11 0 14	30 157 14 15 167 75 64 57 17 162	14.75 27.61	.351 ^a .000*
Low self- Feel like Feel had	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat let down partner Not at all A little Somewhat	19 74 13 6 80 51 33 15 11 86 2	9 63 1 9 65 23 21 31 6 6 62 7	2 20 0 22 1 10 11 0	30 157 14 15 167 75 64 57 17	14.75 27.61	.351 ^a .000*
Low self- Feel like Feel had	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat let down partner Not at all A little Somewhat b vill affect closeness	19 74 13 6 80 51 33 15 11 86 2 with partner	9 63 1 9 65 23 21 31 6 62 7	2 20 0 22 1 10 11 0 14 8	30 157 14 15 167 75 64 57 17 162 17	14.75 27.61 28.34	.351 ^a .000*
Low self- Feel like Feel had	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat let down partner Not at all A little Somewhat D will affect closeness Not at all	19 74 13 6 80 51 33 15 11 86 2 with partner 76	9 63 1 9 65 23 21 31 6 62 7 7 28	2 20 0 22 1 10 11 0 14 8 1	30 157 14 15 167 75 64 57 17 162 17 105	14.75 27.61	.351 ^a .000*
Low self- Feel like Feel had	Not at all A little Somewhat esteem Not at all A little Somewhat a failure Not at all A little Somewhat let down partner Not at all A little Somewhat b vill affect closeness	19 74 13 6 80 51 33 15 11 86 2 with partner	9 63 1 9 65 23 21 31 6 62 7	2 20 0 22 1 10 11 0 14 8	30 157 14 15 167 75 64 57 17 162 17	14.75 27.61 28.34	.351 ^a .000*

Worry fo	r future relationship						
	Not at all	13	6	1	20	19.74	.001*
	A little	71	49	8	128		
	Somewhat	15	20	13	48		
Preoccup	ied with ED						
	Not at all	12	6	0	18	26.24	$.000^{a}$
	A little	82	62	13	157		
	Somewhat	5	7	9	21		

Notes: χ^2 test was done to obtain the P-value; ^{*a*} P-value was not reliable as more than 20% of

the cells have expected frequencies that are less than 5; * P-value was significant (P<0.05).

Psychological factors associated with ED patients

Table no. 3 shows the associations between patient's psychological scale and psychological factors. It reveals that there were Significant correlations between patient's psychological scale and a dissatisfaction on household income (P=0.030), blame themselves (P= 0.001), feeling of guilt (P=0.000), less desirable (P= 0.000), feeling hurt (P= 0.000), feeling of anger or bitterness (P=0.000), depression (P=0.005), feeling like a failure (P=0.000), Worry ED will affect closeness with a partner (P= 0.000), and Worry for a future relationship (P= .001). Other associations were found to be insignificant.

Table no. 4 lists the association between patient's psychological scale and demographic characteristics. It shows that the association of sociodemographic factors were insignificant.

Demographi	c	Psychological-scale			Total	χ2	p- value
Factors		Mild Moderate Se		Sever			
Religion							
	Hindu	73	55	15	143	.49	.998
	Muslim	9	7	3	19		
	Sikh	4	3	1	8		
	Christian	13	10	3	26		
Education							
	Primary	27	22	5	54	1.70	.945
	Higher second	dary44	33	11	88		
	Graduate	23	17	6	46		
	Postgraduate	5	3	0	8		
Occupation	l						
	Employed	84	64	18	166	.166	.920
	Unemployed	15	11	4	30		

Table no. 4 the association between psychological scale and demographic characteristics

© The International Journal of Indian Psychology, ISSN 2348-5396 (e) | ISSN: 2349-3429 (p) | 20

77
99
49

Notes: χ^2 test was done to obtain the *P*-value; * *P*-value was significant (*P* <0.05); a *P*-value was not reliable as more than 20% of the cells have expected frequencies that are less than 5.

DISCUSSION

Association between demographic characteristics and ED

In our study, we did not find any significant association between demographic characteristics and ED. Similar findings were consistent with a population-based study conducted in Singapore (Tan, Hong, Png, Liew, & Wong, 2003) who did not find any significant association between demographic factors except age. A study carried out to evaluate the erectile dysfunction (ED) in adult kidney transplant patients (Rebollo, Ortega, Valdes, Fernández-Vega, Ortega, García-Mendoza, & Gómez, 2003), and a study on Association of psychological factors with ED (Huri, et al., 2016), they also did not find any significant association between demographic factors except age and ED. It shows that ED increases with advancing age and is most likely due to a gradual decrease in physiological function of a person with advancing age. It is expected that ED will become a major problem in the future, as the elderly population is growing year by year ((Huri, et al., 2016).

However, studies done in erectile dysfunction among hypertensive patients reported a significant correlation between lower educational level (69.1%, P=0.026) and ED (Fadzil, Sidi, Ismail, Hassan, Thuzar, Midin, & Das, 2014). A study of ED in Turkey shows that the prevalence of moderate or severe ED was significantly associated with increasing age, low educational level, unemployment as well as between household income (Akkus, Kadioglu, Esen, Doran, Ergen, & Anafarta, 2002). It is believed that a well-educated person is more likely to be well paid, having better access to health care centers, and subsequently living a more positive lifestyle (Huri, et al., 2016).

Although this study was conducted in an urban setting where the majority of the participants were well educated (Higher –Secondary level, 44.9%; Graduate, 23.5%) and of younger age $(29.77\pm7.05 \text{ years})$. Sexual dysfunction still occurred among patients. The possible reason for

this occurrence might be because they have poor access to health services and stigma related to ED, which prevents them to access the health services early.

Association between Psychological factors and ED

Studies have shown that sexual dysfunction can significantly affect man's self-esteem, confidence, and relationship (Arrington, Cofrancesco, & Wu, 2004). A normal sexual function is one of the basic fundamental identities of men, and its deterioration can indirectly affect their psychological well-being. Thus, sexual incompetency due to failing in producing and maintaining a sufficient erection during intercourse can significantly affect men's overall health and QoL (Huri, et al., 2016).

The overall psychological scales showed that the majority of the participants (50.5%) were mildly affected by ED. Most of them felt angry, bitter and, depressed because of ED. This indicates that ED can affect the psychological well-being of a person (Huri, et al., 2016).

The study showed a significant correlation between ED and depression. This finding was consistent with other studies conducted worldwide and reported a strong correlation between depression and sexual dysfunction, with the occurrence of depression being twice as high in men with ED compared to healthy men (Shiri, Koskimäki, Tammela, Häkkinen, Auvinen, & Hakama, 2007; Arrington, Cofrancesco, & Wu, 2004; Seidman, 2002; Seidman, Roose, Menza, Shabsigh, & Rosen, 2001) . In addition, a recent study also reported a significant correlation between depression and ED (Huri, et al., 2016). The occurrence of depression is mainly because of the fact that penile erection is a sign of masculinity. Any decline in penile erection will mean a decline in manhood. This might subsequently lead to the feeling of "worthlessness" and might aggravate the current depressive symptoms. However, an appropriate treatment of ED might help in alleviating both ED and depressive symptoms (Cheng, Ng, & Ko, 2007). Thus, men with ED should seek treatment to improve his sexual dysfunction as well as their psychological well-being.

The study also shows a significant relationship between sexual dysfunction and feeling of anger or bitterness. This finding was consistent with prospective results from the Massachusetts Male Aging Study (Huri, et al., 2016; Araujo, Johannes, Feldman, Derby, & McKinlay, 2000). The feeling of anger or bitterness toward themselves results from their disability to produce a sufficient erection during intercourse (Araujo, et al., 2000). Delay in seeking treatment results in poor sexual satisfaction, decrease in sexual intimacy, and QoL ((Huri, et al., 2016). Thus, the sexual dysfunction should be treated immediately to get the early benefit for both man and his spouse.

CONCLUSION

Despite our best effort, there are limitations of our study. Small sample size, we have not taken general population, did not considered the effect of medications, substance use, and chronic diseases.

ED is a significant health problem and affect psychological well-being of patients. Besides pharmacological therapy, patient education on ED also plays an important role in the management of ED. Assessment early diagnosis and treatment of ED and psychological problems are crucial for patients, as untreated psychological problems can further worsen the ED condition as well as impairs patients' overall QoL.

Acknowledgments

The author appreciates all those who participated in the study and helped to facilitate the research process.

Conflict of Interests: The author declared no conflict of interests.

REFERENCES

- Akkus, E., Kadioglu, A., Esen, A., Doran, S., Ergen, A., Anafarta, K., & Turkish Erectile Dysfunction Prevalence Study Group. (2002). Prevalence and correlates of erectile dysfunction in Turkey: a population-based study. *European urology*, 41(3), 298-304.
- Araujo, A. B., Johannes, C. B., Feldman, H. A., Derby, C. A., & McKinlay, J. B. (2000). Relation between psychosocial risk factors and incident erectile dysfunction: prospective results from the Massachusetts Male Aging Study. *American journal of epidemiology*, 152(6), 533-541.
- Arrington, R., Cofrancesco, J., & Wu, A. W. (2004). Questionnaires to measure sexual quality of life. *Quality of Life Research*, 13(10), 1643-1658.
- Cheng, J. Y., Ng, E. M., & Ko, J. S. (2007). Depressive symptomatology and male sexual functions in late life. *Journal of affective disorders*, 104(1), 225-229.
- Fadzil, M. A., Sidi, H., Ismail, Z., Hassan, M. R. C., Thuzar, K., Midin, M., & Das, S. (2014). Socio-demographic and psychosocial correlates of erectile dysfunction among hypertensive patients. *Comprehensive psychiatry*, 55, S23-S28.
- Huri, H. Z., Sanusi, N. D. M., Razack, A. H. A., & Mark, R. (2016). Association of psychological factors, patients' knowledge, and management among patients with erectile dysfunction. *Patient preference and adherence*, 10, 807.
- Latini, D. M., Penson, D. F., Colwell, H. H., Lubeck, D. P., Mehta, S. S., Henning, J. M., & Lue, T. F. (2002). Psychological impact of erectile dysfunction: validation of a new health related quality of life measure for patients with erectile dysfunction. *The Journal of urology*, 168(5), 2086-2091.
- Lewis, R. W., Fugl-Meyer, K. S., Corona, G., Hayes, R. D., Laumann, E. O., Moreira Jr, E. D., & Segraves, T. (2010). Original articles: definitions/epidemiology/risk factors for sexual dysfunction. *The journal of sexual medicine*, 7(4pt2), 1598-1607.

- Makhlouf, A., Kparker, A., & Niederberger, C. S. (2007). Depression and erectile dysfunction. *Urologic Clinics of North America*, 34(4), 565-574.
- McCabe, M. P., & Althof, S. E. (2014). A systematic review of the psychosocial outcomes associated with erectile dysfunction: Does the impact of erectile dysfunction extend beyond a man's inability to have sex?. *The journal of sexual medicine*, 11(2), 347-363.
- National Institutes of Health Consensus Development Panel. "National Institutes of Health Consensus Development Conference statement: Impotence, December 7–9, 1992. *International Journal of Impotency Research* (1993); 5: 181–284.
- Rebollo, P., Ortega, F., Valdes, C., Fernández-Vega, F., Ortega, T., García-Mendoza, M., & Gómez, E. (2003). Factors associated with erectile dysfunction in male kidney transplant recipients. *International journal of impotence research*, 15(6), 433-438.
- Rosen, R. C., Riley, A., Wagner, G., Osterloh, I. H., Kirkpatrick, J., & Mishra, A. (1997). The international index of erectile function (IIEF): a multidimensional scale for assessment of erectile dysfunction. *Urology*, 49(6), 822-830.
- Seagraves, R. T. (2000). Depression and erectile dysfunction. Postgraduate medicine, 107(6 Suppl Educational), 24-27.
- Seidman, S. N. (2002). Exploring the relationship between depression and erectile dysfunction in aging men. *Journal of Clinical Psychiatry*.
- Seidman, S. N., Roose, S. P., Menza, M. A., Shabsigh, R., & Rosen, R. C. (2001). Treatment of erectile dysfunction in men with depressive symptoms: results of a placebo-controlled trial with sildenafil citrate. *American Journal of Psychiatry*, 158(10), 1623-1630.
- Shah, J. (2002). Erectile dysfunction through the ages. BJU International, 90: 433–441.
- Shamloul, R., & Ghanem, H. (2013). Erectile dysfunction. The Lancet, 381(9861), 153-165.
- Shiri, R., Koskimäki, J., Tammela, T. L., Häkkinen, J., Auvinen, A., & Hakama, M. (2007). Bidirectional relationship between depression and erectile dysfunction. *The Journal of urology*, 177(2), 669-673.
- Tan, H. M., Low, W. Y., Ng, C. J., Chen, K. K., Sugita, M., Ishii, N., & Sand, M. (2007). Prevalence and correlates of erectile dysfunction (ED) and treatment seeking for ED in Asian men: the Asian Men's Attitudes to Life Events and Sexuality (MALES) study. *The journal of sexual medicine*, 4(6), 1582-1592.
- Tan, J. K., Hong, C. Y., Png, D. J., Liew, L. C., & Wong, M. L. (2003). Erectile dysfunction in Singapore: prevalence and its associated factors—a population-based study. *Singapore Med J*, 44(1), 20-26.

How to cite this article: Bhagat V, Ajagallay R, Janghel G, Chanda V, Agrawal R, Naik N (2017), Demographic Profile and Associated Psychological Factors among Patients with Erectile Dysfunction Attending Tertiary Care Centre at Raigarh (Chhattisgarh), *International Journal of Indian Psychology*, Volume 4, Issue 2, No. 93, ISSN:2348-5396 (e), ISSN:2349-3429 (p), DIP:18.01.122/20170402, ISBN:978-1-365-78193-3