Volume 5 Issue 6, September-October 2021 Available Online: www.ijtsrd.com e-ISSN: 2456 – 6470

A Study to Analyse the Risk Factors Associated with Development of Cancer of Breast among Patients with Cancer at Siddhanta Red Cross Hospital Bhopal, Madhya Pradesh

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ABSTRACT

The present study has been undertaken to add evidence-based information in the field of breast cancer to analyze the risk factors associated with development of those cancers in the Siddhanta Red Cross hospital Bhopal, Madhya Pradesh.

The study aimed to describe the development of a risk scoring system for identifying a high risk group of women associated with increased risk of development of disease. The selection of sample was done by using convenient non probability sampling technique.

The total sample size for the study was 15 breast cancer patients included in the study. After identifying the risk factors associate with the development of a disease, it may be possible to rank them or give scores. It has been indicated that risk related intervention is more efficient than uniform allocation of resources, with potential benefit increasing with the discriminatory power of the risk scores. However, no such attempts have been made in India for assessing the exact risk factor associated with breast cancer.

Based on the evidence from the collected data it was revealed that the risk factor associated with the formation of breast cancer are family history of breast cancer, late age of pregnancy, not delivered any baby, not fed with breast, not married, consumption of non-vegetarian, personal habits of alcohol/smoking/tobacco consumption, not had the regular pattern of exercise and body mass index of overweight or obesity.

How to cite this paper: Mr. Gaurav Mukerji | Dr. Prof. Victor Devasirvadam "A Study to Analyse the Risk Factors Associated with Development of Cancer of Breast among Patients with Cancer at Siddhanta Red Cross Hospital Bhopal, Madhya Pradesh" Published in

International
Journal of Trend in
Scientific Research
and Development
(ijtsrd), ISSN:
2456-6470,
Volume-5 | Issue-6,

October 2021, pp.774-778,

IJTSRD47489

URL:

www.ijtsrd.com/papers/ijtsrd47489.pdf

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KEYWORDS: Pilot Study, Risk Factor, Cancer of Breast

OBJECTIVES

1. Identify the risk factors of breast cancer among patients with breast cancer.

HYPOTHESIS

H1: There will be a significant association between the risk factors and development of breast cancer.

Material and method Research approach and design Research approach

Quantitative approach

Research design

The research design selected for this study is exploratory survey design. According to wood

exploratory survey design is used to search for accurate information about the characteristics of particular subjects groups.

Setting of the study

The study was conducted in Siddhanta Red Cross hospital Bhopal.

Sample & Sample Size

Subjects who were met the inclusion criteria at Siddhanta Red Cross hospital were sample of the present study. The total sample size was 15patients with the cancer of breast at Siddhanta Red Cross hospital, Bhopal.

Sampling Criteria

The sampling frame is structured by the researcher. The criteria used for selection of study subjects included the patients;

- 1. Admitted in Siddhanta Red Cross hospital, Bhopal.
- 2. Who had diagnosed to have breast cancer.
- 3. Irrespective of stages of cancer.

Ethical permission

The legal and ethical permissions was obtain from the LNCT University and Siddhanta Red Cross hospital

Ethical committee before the data collection. Anonymity confidentiality, and informed consent from the sample.

Data analysis and interpretations

Data collected from 15 breast cancer patients to analyze the risk factors associated with breast cancer of Siddhanta Red Cross hospital Bhopal. The baseline characteristics of the study subjects were analyzed using descriptive and were presented in terms of frequency and percentage as shown in table 1

Table 1:- Frequency and percentage wise distribution of samples N=15

	11-13			
Demographic Characteristics	FREQUENCY	PERCENTAGE		
Age in year				
<= 45 years	02	13.3		
>45	13	86.7		
Religion				
Hindu	04	26.7		
Muslim	05	33		
Christian Scientific	03	20		
Jains	03	20		
Others				
Education 8 6 IJISRD				
Non formal education International Journal	03	20		
High school	02 😦	13.3		
Graduate and above	10	66.7		
Marital status	08			
Married/ widow/ separated	09 • • 8	60		
Single () 9 ISSN: 2456-6470	06 9	40		
Monthly Income of the family (In Rs.)	. 8 8			
< = 10,000	05	33.3		
>10000	10	66.7		
Residence				
Rural	03	20		
Urban	12	80		
	Age in year <= 45 years >45 Religion Hindu Muslim Christian Jains Others Education Non formal education High school Graduate and above Marital status Married/ widow/ separated Single Monthly Income of the family (In Rs.) <= 10,000 >10000 Residence Rural	Age in year 02 >45 13 Religion 04 Hindu 04 Muslim 05 Christian 03 Jains 03 Others 03 Education 03 Non formal education 03 High school 02 Graduate and above 10 Marital status 09 Single 06 Monthly Income of the family (In Rs.) 05 > 10000 05 > 10000 10 Residence 03		

TABLE2: Risk factor associated with family history of breast cancer and formation of breast cancer

Damaguanhia Chawastawistics	Family Histo	ory of cancer	Risk factor	
Demographic Characteristics	yes No		KISK Tactor	
Occupation				
Home maker	3	1	Home maker (1.500)	
Private job	3	4		
Government Job	1	2		
Residence				
Rural	1	2	Urban (1.500)	
Urban	6	6		

Based on family history of breast cancer it was found out that along with family history if the participant are home makers, residing in urban areas they are at risk for developing breast cancer.

TABLE3: Risk factor associated with age of pregnancy and formation of breast cancer

Domographia	Age of pregnancy				
Demographic Characteristics	Below 20 yr	21-35 year	Above 35	Not become pregnant	Risk factor
Marital status					
Married/ widow/ separated	5	2	1	1	Single (4.50)
Single	0	0	0	6	
Residence					
Rural	2	0	0	1	Urban (1.750)
Urban	3	2	1	6	

Based on the finding of relative risk it was revealed that if the female had delay history of pregnancy risk factor associated with it are status of being single and residing in urban areas.

TABLE4: Risk factor associated with number of live birth and formation of breast cancer

Demographic Characteristics		nber of live birth	Risk factor
		1 or more	RISK Tactor
Marital status			
Married/ widow/ separated	2	7	Single (4.50)
Single	6	0	
Residence	للل	The same	
Rural	die	ntig 2	Urban (1.750)
Urban	7	15	

Based on the finding of relative risk it was revealed that if the female do not have the history of delivered a baby the risk factor associated with it are the status of being single and residing in urban areas.

TABLE5: Risk factor associated with duration of breast feeding and formation of breast cancer

Damagraphia Characteristics		Risk factor		
Demographic Characteristics	Not fed	1 to 48 month	48 and above	RISK Tactor
Marital status	Dev	elopment		
Married/ widow/ separated	2SSN	2456-6270	5	Single (2.250)
Single	6	0	0	
Residence	9),	1900	8	
Rural	1 5	= $=$ 0	2	Urban (2.250)
Urban	Tom	2	3	

Based on the finding of relative risk it was revealed that if the female had less than 48 months of breast fed or no breast fed history risk factor associated with it are status of being single and residing in urban areas.

TABLE 6: Risk factor associated with dietary habits and formation of breast cancer

D	Dietary habits		D:-I- 64
Demographic Characteristics	vegetarian	Non vegetarian	Risk factor
Religion			
Hindu	3	1	
Muslim	1	4	Muslim
Christian	1	2	(2.667)
Jains	3	0	
Others	0	0	
Education			
Non formal education	1	2	Graduata and Abaya (1.500)
High school	1	1	Graduate and Above (1.500)
Graduate and above	6	4	
Residence			
Rural	2	1	Urban (1.500)
Urban	6	6	

Based on the finding of relative risk it was revealed that if the female had dietary habits of non-vegetarian risk factor associated with it are belong to Muslim religion, graduate and above, residing in urban areas.

TABLE 7: Risk factor associated with personal habits and formation of breast cancer

Demographic Characteristics	Perso	Risk factor	
Demographic Characteristics	vegetarian	Non vegetarian	KISK Tactor
Monthly Income of the family (In Rs.)			
< = 10,000	1	4	<10000 (3.500)
>10000	7	3	
Residence			
Rural	2	1	Urban (1.500)
Urban	6	6	

Based on the finding of relative risk it was revealed that if the female had the habit of alcohol/smoking/tobacco chewing risk factor associated with it is income less than 10,000 Rs per month, residing in Urban areas.

TABLE8: Risk factor associated with exercise pattern and formation of breast cancer

Domographia Characteristics	Exercise pattern		Risk factor
Demographic Characteristics	doing	Not doing	NISK TACTOT
Education			
Non formal education	2	AM	Graduata (1.500)
High school	0	2	Graduate (1.500)
Graduate and above	n 1	9.5	D
Occupation	•	C.S.	V)
Home maker	20	3	Private/ government job
Private job	0	7	(1.500)
Government Job	mation	al Joignal	

Based on the finding of relative risk it was revealed that if the female does not have the exercise pattern risk factor associated with it are graduation and above education, doing private/ government job.

TABLE9: Risk factor associated with body mass index and formation of breast cancer

Domagnaphia Chanastonistics	Body mass index		Disk factor	
Demographic Characteristics	Normal	Over weight	Risk factor	
Education	344	LL THE	8	
Non formal education	2	7.1	Graduate (4.500)	
High school	2	0	Graduate (4.300)	
Graduate and above	1	9		
Occupation				
Home maker	4	1	Private/ government job (4.50)	
Private job	0	7		
Government Job	1	2		
Residence				
Rural	2	1	Urban (2.500)	
Urban	3	9		

Based on the finding of relative risk it was revealed that if the female had obese or over weight body pattern risk factor associated with it are graduation and above education, doing private/ government job, residing in urban areas.

Conclusion: -

Based on the evidence from the collected data it was revealed that the risk factor associated with the formation of breast cancer are family history of breast cancer, late age of pregnancy, not delivered any baby, not fed with breast, not married, consumption of nonvegetarian, personal habits of alcohol/smoking/tobacco consumption, not had the regular pattern of exercise and body mass index of overweight or obesity.

References:-

- [1] Nainakshi Kashyap, Nadiya Krishnan, Sukhpal Kaur, Sandhya Ghai Risk Factors of Cervical Cancer: A Case-Control Study Asia Pac J Oncol Nurs. 2019 Jul-Sep; 6(3): 308–314.
- [2] Mhaske M, Jawadekar SJ, Saundale SG. Study of association of some risk factors & cervical dysplasia/cancer among rural women. *Natl J Commun Med.* 2011;2:209–12.
- [3] Aswathy Sreedevi, Reshma Javed, Avani Dinesh, Epidemiology of cervical cancer with special focus on India Published online 2015 Apr 16 Int J Womens Health. 2015; 7: 405–414.
- [4] Kour P, lal M, Panjaliya R, Dogra V, Gupta S. Study of the Risk Factors Associated with Cervical Cancer. Biomed Pharmacol J 2010; 3(1). Available from: http://biomedpharmajournal.org/?p=1350

