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# **Research Article**

# Effect of structured discharge teaching after hysterectomy

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#### ABSTRACT

**Background:** Hysterectomy is the most common major surgical procedure underwent by women. And there is no proper discharge planning for women underwent hysterectomy. The aim of the study was to assess and compare the self-care ability score of women underwent hysterectomy after implementation of structured discharge teaching in experimental and comparison group.

**Methods:** The study was quantitative research approach using non-equivalent control group, post-test only design with 60 women underwent hysterectomy selected by purposive sampling technique from gynae ward of Maharishi Markandeshwar Institute of Medical Science & Research Hospital, Mullana. The post test data was collected by interview technique as 1<sup>st</sup> follow up visit of operation.

**Results:** The mean score of self-care ability in experimental group ( $103.63 \pm 4.327$ ) was higher than mean score of comparison group ( $71.67 \pm 4.737$ ). The computed 't' value was found to be statistically significant at 0.05 level of significant except personal hygiene and exercise. There was significant association of self-care ability score with days of postoperative stay which was found significant at 0.05 level of significant indicating that self-care ability score was dependent on days of postoperative stay >12 days.

**Conclusions:** The findings revealed that the structured discharge teaching on self-care ability was effective on prevention of complication after hysterectomy. Therefore, it is recommended to develop a proper discharge planning protocol regarding self-care after hysterectomy for prevention of complication.

Keywords: Effectiveness, Discharge planning, Self-care ability, Hysterectomy

# INTRODUCTION

One of the goals of health for all in 21<sup>st</sup> century is the improvement of quality of life; and to find the best treatments for medical problems. Health in the society is the most important factor for social and economic development and every financial or educational investment in this field should be considered essential. Having a good quality of life has always been a wish for human beings.<sup>1</sup>

The World Health Organization (WHO), 2014, defined health as "a state of complete physical, mental, and social well-being and not merely the absence of disease or

infirmity." Health has been recognized as the greatest wealth from times immemorial. In present world it is continuously trying to maintain health at optimum level by adapting and practicing different methods. Any deviation from normal health may necessitate medical care for surgical intervention.<sup>1</sup>

Hysterectomy is the most common major surgical procedure underwent by women. It is the surgical removal of the uterus. It may also involve removal of the cervix, ovaries, fallopian tubes and other surrounding structures. 2

Study found some of the women reported late medical problems after hysterectomy, *viz.*, backache (44; 62.9%) vaginal discharge (3; 4.3%), weakness (11; 15.7%), pain (11; 15.7%), weight gain (3; 4.3%), gas (7; 10%), incontinence (8; 11.4%) and difficulty in sitting/walking (5; 7.1%). In 10 (14.3%) cases, feeling of a sense of incompleteness was reported after removal of uterus.<sup>2</sup>

Women after hysterectomy are more likely to develop depression. Signs of depression may include severe and prolonged feelings of sadness and hopelessness; diminished interest in activities; significant weight loss or gain; insomnia; fatigue; and thoughts of death or suicide. However, women who have their ovaries removed during a hysterectomy may experience vaginal dryness and thinness which can make sexual intercourse uncomfortable. These women may also find they have a loss of libido following a hysterectomy due to the drop in the hormone testosterone.<sup>2</sup>

Severe operative complications were more likely in women with a history of serious illness and among those with a higher number of pregnancies. The highest risk was evident among women with fibroids, but the observed continuous reduction in risk associated with age among these women was not apparent along with dysfunctional uterine bleeding.<sup>2</sup>

Discharge planning is also one of the "basic" hospital functions as outlined in Medicare's conditions of participation from Centres for Medicare & Medicaid Services. The need to establish an effective discharge planning policy and guideline has been given attention, together with the trend toward starting the discharge planning process upon admission, adopting a multidisciplinary approach, and coordinating for post-discharge care support.<sup>2</sup>

#### **METHODS**

The research was conducted on women underwent hysterectomy as a quasi-experimental design with non-equivalent control group, post-test only design. The study was carried out from December 2014 to February 2015 at Maharishi Markandeshwar Institute of Medical Science & Research Hospital, Mullana.

The research sample includes a total 60 women underwent hysterectomy – 30 experimental group and 30 comparison were selected with purposive sampling technique. The inclusion criteria were women who underwent hysterectomy and admitted in gyane ward of Maharishi Markandeshwar Institute of Medical Science & Research Hospital, Mullana and are available at the time of data collection.

The instrument used for data collection were description of sample characteristics: demographic variables with 11 items and clinical variables with 13 items and structured self-care ability questionnaire comprised of 44 items

covering the area of physical activities, personal hygiene, diet, exercise, emotional stress, psychological activities and sexual activities. The items were graded in 3 point rating scale: "always-3, "sometimes-2" and "never-1" is at minimum 44 and maximum 132.

Data of demographic variables and clinical variables was collected at the time of admission. The first month of data collection was selected as comparison group while those available during the second month were taken into experimental group to prevent from contamination. Daily care was given to both comparison and experimental group and intervention (teaching) on self-care was given for 5 days to prevent from complication. On first day, teaching on self-care regarding breathing exercise, leg exercise and upper and back exercise was given with the help of flash card. On 2<sup>nd</sup> day, teaching on self-care regarding mobility, pelvic floor exercise, knee bend, knee rolling, pelvic tilting and abdominal exercise was given with the help of flash card. On 3<sup>rd</sup> day, teaching on selfcare regarding personal hygiene, wound care, emotional stress, psychological activities and tips to deal with emergency was given with the help of flash card. On 4th day, teaching on self-care regarding do's after hysterectomy i.e. walk, pain management, rest, movement and don'ts after hysterectomy i.e. venture out alone, bend or lift, dismiss recovery medications and sexual activity and don'ts after hysterectomy was given with the help of flash card. On 5<sup>th</sup> day, teaching on selfcare regarding diet to promote healing and to prevent complication was given with the help of flash card. Telephonic follow up and fixing up of appointment was done and post-test was taken on the day of first follow up after discharge from the hospital for both comparison and experimental group.

# Ethical consideration

Ethical approval was obtained from the institutional Ethical Committee of Maharishi Markandeshwar University, Mullana, Ambala, Haryana. Formal administrative permission was obtained from Medical superintendent of Hospital. Written consent was obtained from the study subjects' regarding their willingness to participate in the research project. The purpose for carrying out the research project was explained to the subjects and assurance of confidentiality.

#### Data analysis

Data were analysing by using SPSS software. For evaluation of the data, percentage, arithmetic mean and standard deviation, chi-square, t-test in independent groups and ANNOVA's and t test for association.

# RESULTS

Altogether 60 women of experimental and comparison group were homogenous comparable in terms of demographic variables and clinical variables except

religion. The mean percentage of self-care ability test score of experimental group 78.5±4.327 was higher than mean percentage of comparison group 54.3±4.737. The computed 't' value were found statistically significant at 0.5 level of significance. Thus, the mean difference between comparison and experimental group was true difference not by chance indicating teaching was effective in enhancing self-care ability score of women after hysterectomy except personal hygiene and exercise. There was no association of self-care ability of women underwent hysterectomy with demographic variables and clinical variables which were found statistically not significant at 0.05 level except days of post-operative stays for experimental group which was found statistically significant at 0.05 level indicating that selfcare ability score was dependent on days of postoperative stay which means >12 days the patient stays at hospital under supervision more self-care ability is developed.

Data presented in Table 1 indicates that half of the women in comparison group (53.3%) and in experimental group (56.7%) were in the age of 31-40 years. Majority of the women in comparison group (93.3%) and most of the women in experimental group (70%) belonged to Hindu religion. Half of the women in comparison group (53.3%) were from the nuclear family whereas half of the women in experimental group (53.3%) were from the joint family and majority of the women in comparison group (93.3%) and experimental group (93.3%) were supported by the family member. All the women in comparison group (100%) and experimental group (100%) were married. Most of the women in comparison group (60%) and in experimental group (53.3%) were non-literate. All of the women both in comparison group (100%) and experimental group (100%) were homemakers. Nearly half of the women in comparison group (46.7%) and most of the women in experimental group (60%) had monthly income of Rs. 8000-9000/-.Half of the women in comparison group (50%) and one third of the women in experimental group (33.3%) had 2 living children and one third of the women in comparison group (23.3%) and experimental group (16.75%) had one abortion. One third of the women in comparison group (36.7%) and in experimental group (33.3%) underwent hysterectomy and most of the women in comparison group (63.3%) and in experimental group (66.7%) underwent abdominal hysterectomy.

Chi square between experimental and comparison group were homogenous and comparable in terms of demographic variables except religion.

Data presented in Table 2 indicates that nearly half of the women in comparison group (40%) were in blood group B +ve and in experimental group (40%) were in blood group of A +ve. All the women in experiment (100%)

and comparison group (100%) were range of 2-7min/sec of bleeding time, 4-10min/sec of clotting time and 5-4.5 lacs/mm<sup>3</sup> of platelet count respectively. Most of the women in comparison group (70%) and in experimental group (73.3%) had stayed in hospital 1-3 days before hysterectomy. Majority of the women in comparison group (63.3%) and in experimental group (86.7%) were range of 7gm%-11gm% of haemoglobin. Most of the women in comparison group (83.3%) and in experimental group (73.3%) did not received blood transfusion. Majority of the women in comparison group (80%) and in experimental group (93.3%) had stayed 6-8 days after hysterectomy, nearly half of the women in comparison group (46.7%) and majority of the women in experimental group (76.7%) had stayed 7-11 days in the hospital. One third of the women in comparison group (40%) and in experimental group (40%) had discharge on 7<sup>th</sup> day after hysterectomy. One third of the women in comparison group (30%) had come on 9<sup>th</sup> day of follow up and in experimental group (26.7%) had come on 8<sup>th</sup> day of follow up. All the women in comparison group (100%) and in experimental group (100%) did not have any complaints of complication after operation.

Chi square between experimental and comparison group were homogenous and comparable in terms of clinical variable.

Data presented in Table 3 represents the self-care ability for both comparison group and experimental group. The data indicated that after implementation of structured discharge planning, mean percentage of self-care ability test score of experimental group  $78.5 \pm 4.327$  was higher than mean percentage of comparison group  $54.3 \pm 4.737$ .

Data presented in Table 4 represents the mean score of comparison group were physical activities (17.4), diet (21.36), emotional stress (8.86), psychological activities (6.26) and sexual activities (1.00) whereas in experimental group were physical activities (32.8), diet (40.83), emotional stress (16.30), psychological activities (9.53) and sexual activities (2.67) respectively. The computed 't' value were found statistically significant at 0.5 level of significance. Thus, the mean difference between comparison and experimental group was true difference not by chance indicating structured discharge planning was effective in enhancing self-care ability score of women after hysterectomy.

The mean score of personal hygiene (9.86) and exercise (5.90) in comparison group whereas the mean score of personal hygiene (18.5) and (10.76) in experimental group respectively. The computed 't' value were found statistically non-significant at 0.5 level of significance indicating that the discharge was not effective in the area of personal hygiene and exercise.

Table 1: Percentage and frequency distribution of women underwent hysterectomy according to selected demographic variables.

Demographic Variables	Comparison group	Experimental group	Chi/Yates	df	P-
	f (%) (n=30)	f (%) (n=30)			Value
1.Age	(H-30)	(II-30)			
1.1 ≤30 years	2 (6.7%)	4 (13.3%)	14.696	3	0.327 <sup>NS</sup>
1.2 31 – 40 years	16 (53.3%)	17 (56.7%)	14.070		0.321
1.3 41 – 50 years	9 (30%)	7 (23.3%)			
1.4 51 – 60 years	3 (10%)	2 (6.7%)			
2. Religion	3 (1070)	2 (0.770)			
2.1 Hindu	28 (93.3%)	21 (70%)	12.00	2	0.002*
2.2 Sikh	2 (6.7%)	0	12.00		0.002
2.3 Muslim	0	9 (30%)			
3. Types of family	U	9 (30%)			
3.1 Nuclear	16 (53.3%)	14 (46.7%)	0.267	1	0.606 <sup>NS</sup>
3.2 Joint	14 (46.7%)	16 (53.3%)	0.207	1	0.000
	14 (40.7%)	10 (33.3%)			
Whether there is any social support for the women at home?					
- Yes	28 (93.3%)	28 (93.3%)	0.00	1	1.000 <sup>NS</sup>
- No	2 (6.7%)	2 (6.7%)	0.00	1	1.000
4. Marital status	2 (0.7%)	2 (0.7%)			
4.1 Married	30 (100%)	20 (100%)	NA		
5. Educational status	30 (100%)	30 (100%)	NA		
	10 ((00/)	16 (52 20/)	0.618	2	0.734 <sup>NS</sup>
5.1 Non-literate	18 (60%)	16 (53.3%)	0.018		0.734
5.2 Primary education	9 (30%)	9 (30%)			
5.3 Secondary education	3 (10%)	5 (16.7%)			
6. Occupation	20 (1000()	20 (1000/)	NT A		
6.1 Homemaker	30 (100%)	30 (100%)	NA		
7. Monthly income in rupees	11 (26 70/)	7 (22 20/)	10.02	2	0.333 <sup>NS</sup>
7.1 ≤8000	11 (36.7%)	7 (23.3%)	18.92	3	0.333
7.2 8001 – 9000	14 (46.7%)	18 (60%)			
7.3 90001 and above	5 (16.7%)	5 (16.7%)			
8. Parity					
a) No. of living children					NIC
8.1a. 1 0	0	3 (10%)	5.440	4	$0.245^{NS}$
8.2a. 2 2	15 (50%)	10 (33.3%)			
8.3a. 3 3	9 (30%)	6 (20%)			
8.4a. 4 4	6 (20%)	5 (16.7%)			
8.5a. 5 5	0	5 (16.7%)			
8.6a.6 6	0	1 (3.3%)			
b) No. Of abortion					
8.1b. 1 0	23 (73.3%)	25 (82.25%)	1.826	1	$0.177^{NS}$
8.2b. 2 1	7 (23.3%)	5 (16.7%)			
9. Types of operation					
9.1 Vaginal hysterectomy	11 (36.7%)	10 (33.3%)	0.73	1	0.787 <sup>NS</sup>
9.2 Abdominal hysterectomy	19 (63.3%)	20 (66.7%)			
10. Indication of operation					
10.1 Fibroid uterus	15 (50%)	16 (53.3%)	4.389	4	$0.356^{NS}$
10.2 UV prolapsed	11 (36.7%)	10 (33.3%)			
10.3 AUB	4 (13.3%)	4 (13.3%)			
Co-morbid disease					
- Yes	7 (23.3%)	9 (30%)	0.009	1	$0.925^{NS}$
- No	23 (76.7%)	21 (70%)			
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Table 2: Percentage and frequency distribution of women underwent hysterectomy according to preoperative & postoperative clinical variables.

Name	Clinical Variables	Comparison group f (%)	Experimental group f (%)	Chi/ Yates	df	P value
1. Blood group						
1. Blood group	Preoperative					
1.1A +ve,   9 (30%)   12 (40%)   1.396   3   0.706   1.2B +ve,   12 (40%)   7 (23.3%)   1.30 +ve,   5 (16.7%)   4 (13.3%)	*					
1.2B +ve,   12 (40%)   7 (23.3%)   1.3O +ve,   5 (16.7%)   4 (13.3%)   7 (23.3%)   1.4AB+ve,   4 (13.3%)   7 (23.3%)   2.Bleeding time   2.1<2 min/sec   0	<u> </u>	9 (30%)	12 (40%)	1.396	3	$0.706^{NS}$
1.3O +ve,       5 (16.7%)       4 (13.3%)         1.4AB+ve,       4 (13.3%)       7 (23.3%)         2. Bleeding time       2.1<2 min/sec						
1.4AB+ve,       4 (13.3%)       7 (23.3%)         2. Bleeding time       2.1<2 min/sec						
2. Bleeding time 2.1<2 min/sec	<u> </u>					
2.1<2 min/sec	<u> </u>	(10.070)	(			
2.22-7 min/sec		0	0	NA		
2.3> 7 min/sec				1,112		
3.   Clotting time 3.						
3.14 min/sec		0	0			
3.24-10 min/sec 30 (100%) 30 (100%) 3.3> 10 min/sec 0 0 0 4. Platelet count 4.1<1. lacs/mm³ 0 0 NA 4.21.5 4.5 lacs/mm³ 30 (100%) 4.3> 4.5 lacs/mm³ 0 0 5. Days of pre-operative stay 5.11-3 21 (70%) 22 (73.3%) 2.953 2 0.228° 5.24-6 5 (16.7%) 8 (26.7%) 5.37-9 4 (13.3%) 0 Postoperative 1) Hæmoglobin 1.1<3 gm% 0 0 4.883 3 0.087° 1.23 gm% - 6.9 gm% 1 (3.3%) 2 (6.7%) 1.37 gm% - 11 gm% 19 (63.3%) 26 (86.7%) 1.4> 11 gm% 10 (33.3%) 2 (6.7%) 2.10 unit 25 (83.3%) 22 (73.3%) 0.530 3 0.912° 2.21 unit 3 (10%) 6 (20%) 2.32 unit 1 (3.3%) 2 (6.7%) 2.43 unit 1 (3.3%) 0 0 3.1<5.000 cumm 0 0 0 NA 3.25,000-11,000 cumm 30 (100%) 3.3> 11,000 cumm 0 0 0 0 NA 3.25,000 cumm 0 0 0 0 NA 3.25,000 cumm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	NΙΛ		
3.3> 10 min/sec				INA		
4. Platelet count  4. 1< 1. lacs/mm³  4. 1< 1. lacs/mm³  30 (100%)  30 (100%)  4. 3> 4.5 lacs/mm³  0 0  5. Days of pre-operative stay  5. 1 1-3  21 (70%)  5. 22 (73.3%)  2.953  2 0.228³  5.24-6  5 (16.7%)  8 (26.7%)  5.37-9  4 (13.3%)  0  Postoperative  1) Haemoglobin  1.1<3 gm%  0 0 4.883  3 0.087³  1.23 gm% - 6.9 gm%  1 (3.3%)  2 (6.7%)  1.37 gm% - 11 gm%  10 (33.3%)  2 (6.7%)  2.10 unit  25 (83.3%)  2 (6.7%)  2.21 unit  3 (10%)  6 (20%)  2.32 unit  1 (3.3%)  2 (6.7%)  2.43 unit  1 (3.3%)  2 (6.7%)  2.43 unit  1 (3.3%)  0 0  NA  3.25,000-11,000 cumm  0 0 0 NA  3.25,000-11,000 cumm  0 0 0  4.844  2 0.080³  4.84 2 0.080³  4.29-11  6 (20%)  0 0  4.84 2 0.080³  4.84 2 0.080³  4.29-11  6 (20%)  0 0  4.312-14						
4.1       1. lacs/mm³       0       0       NA         4.21.5       -4.5 lacs/mm³       30 (100%)       30 (100%)         4.3       4.5 lacs/mm³       0       0         5. Days of pre-operative stay       5.11-3       21 (70%)       22 (73.3%)       2.953       2 0.228³         5.24-6       5 (16.7%)       8 (26.7%)       5.37-9       4 (13.3%)       0         Postoperative         1) Haemoglobin       1.1       3 gm%       0       0       4.883       3 0.087³         1.23 gm% - 6.9 gm%       1 (3.3%)       2 (6.7%)       2 (6.7%)       1.37 gm% - 11 gm%       19 (63.3%)       26 (86.7%)       1.4+ 11 gm%       10 (33.3%)       2 (6.7%)       2.10 unit       25 (83.3%)       2 (6.7%)       2.21 unit       3 (10%)       6 (20%)       2.21 unit       3 (10%)       6 (20%)       2.21 unit       1 (3.3%)       2 (6.7%)       2.24 unit       0       0       NA       3.15 5,000 cumm       0       NA       3.25,000-11,000 cumm       0       0       NA       3.25,000-11,000 cumm       0       0       NA       3.25,000-11,000 cumm       0       0       4.84       2 0.080°       4.29-11       6 (20%)       0       0       0       0.080°       4.84		U	U			
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5.1 1-3       21 (70%)       22 (73.3%)       2.953       2 0.2288         5.24-6       5 (16.7%)       8 (26.7%)         5.37-9       4 (13.3%)       0         Postoperative         1) Haemoglobin       1.1<3 gm%		0	0			
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Description   Signature   Si	5.1 1-3	21 (70%)	22 (73.3%)	2.953	2	$0.228^{NS}$
Postoperative 1) Haemoglobin 1.1<3 gm% 0 0 0 4.883 3 0.087 1.23 gm% - 6.9 gm% 1 (3.3%) 2 (6.7%) 1.37 gm% - 11 gm% 19 (63.3%) 26 (86.7%) 1.4>11 gm% 10 (33.3%) 2 (6.7%) 2) Blood transfusion 2.10 unit 25 (83.3%) 22 (73.3%) 0.530 3 0.912 2.21 unit 3 (10%) 6 (20%) 2.32 unit 1 (3.3%) 2 (6.7%) 2.43 unit 1 (3.3%) 0 2.5> 4 unit 0 0 3) TLC 3.1<5.000 cumm 0 0 0 NA 3.25,000-11,000 cumm 30 (100%) 30 (100%) 3.3> 11,000 cumm 0 0 4) Days of post-operative stay 4.16-8 24 (80%) 28 (93.3%) 4.84 2 0.089 4.2 9-11 6 (20%) 4.3 12-14 0 2 (6.7%)	5.24-6	5 (16.7%)	8 (26.7%)			
1) Haemoglobin  1.1<3 gm% 0 0 4.883 3 0.087  1.23 gm% - 6.9 gm% 1 (3.3%) 2 (6.7%)  1.37 gm% - 11 gm% 19 (63.3%) 26 (86.7%)  1.4>11 gm% 10 (33.3%) 2 (6.7%)  2) Blood transfusion  2.10 unit 25 (83.3%) 22 (73.3%) 0.530 3 0.912  2.21 unit 3 (10%) 6 (20%)  2.32 unit 1 (3.3%) 2 (6.7%)  2.43 unit 1 (3.3%) 2 (6.7%)  2.43 unit 0 0 0  3) TLC  3.1<5,000 cumm 0 0 0 NA  3.25,000-11,000 cumm 30 (100%) 30 (100%)  3.3> 11,000 cumm 0 0 0  4) Days of post-operative stay  4.16-8 24 (80%) 28 (93.3%) 4.84 2 0.089  4.2 9-11 6 (20%) 0  4.3 12-14 0 2 (6.7%)	5.37-9	4 (13.3%)	0			
1.1       3 gm%       0       4.883       3       0.087 <sup>N</sup> 1.23 gm% - 6.9 gm%       1 (3.3%)       2 (6.7%)       1.37 gm% - 11 gm%       19 (63.3%)       26 (86.7%)         1.4> 11 gm%       10 (33.3%)       2 (6.7%)       29 Blood transfusion       20 (6.7%)       20 (6.7%)       30 (0.912 <sup>N</sup> )         2.10 unit       25 (83.3%)       22 (73.3%)       0.530       3       0.912 <sup>N</sup> )         2.21 unit       3 (10%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       6 (20%)       7 (20%)<	Postoperative					
1.23 gm% - 6.9 gm%       1 (3.3%)       2 (6.7%)         1.37 gm% - 11 gm%       19 (63.3%)       26 (86.7%)         1.4> 11 gm%       10 (33.3%)       2 (6.7%)         2) Blood transfusion       2.10 unit       25 (83.3%)       22 (73.3%)       0.530       3 0.912\bigsep 0.912	1) Haemoglobin					
1.37 gm% - 11 gm%       19 (63.3%)       26 (86.7%)         1.4> 11 gm%       10 (33.3%)       2 (6.7%)         2) Blood transfusion       2.10 unit       25 (83.3%)       22 (73.3%)       0.530       3 0.912 No.530         2.21 unit       3 (10%)       6 (20%)         2.32 unit       1 (3.3%)       2 (6.7%)         2.43 unit       1 (3.3%)       0         2.5> 4 unit       0       0         3) TLC       3.1 < 5,000 cumm	1.1< 3 gm%	0	0	4.883	3	$0.087^{NS}$
1.4>11 gm%     10 (33.3%)     2 (6.7%)       2) Blood transfusion     2.10 unit     25 (83.3%)     22 (73.3%)     0.530     3 0.912\bar{b}       2.21 unit     3 (10%)     6 (20%)       2.32 unit     1 (3.3%)     2 (6.7%)       2.43 unit     1 (3.3%)     0       2.5> 4 unit     0     0       3) TLC       3.1< 5,000 cumm	1.23 gm% - 6.9 gm%	1 (3.3%)	2 (6.7%)			
2) Blood transfusion  2.10 unit 2.5 (83.3%) 2.2 (73.3%) 0.530 3 0.912 <sup>N</sup> 2.21 unit 3 (10%) 6 (20%) 2.32 unit 1 (3.3%) 2 (6.7%) 2.43 unit 1 (3.3%) 0 2.5> 4 unit 0 0 3) TLC 3.1<5,000 cumm 0 0 NA 3.25,000-11,000 cumm 30 (100%) 3.3> 11,000 cumm 0 0 4) Days of post-operative stay 4.16-8 24 (80%) 28 (93.3%) 4.84 2 0.089 <sup>N</sup> 4.2 9-11 6 (20%) 0 4.3 12-14 0 2 (6.7%)	1.37 gm% - 11 gm%	19 (63.3%)	26 (86.7%)			
2) Blood transfusion  2.10 unit 2.5 (83.3%) 2.2 (73.3%) 0.530 3 0.912  2.21 unit 3 (10%) 6 (20%) 2.32 unit 1 (3.3%) 2 (6.7%) 2.43 unit 1 (3.3%) 0 2.5> 4 unit 0 0 3) TLC  3.1< 5,000 cumm 0 0 NA  3.25,000-11,000 cumm 30 (100%) 3.3> 11,000 cumm 0 0 4) Days of post-operative stay  4.16-8 24 (80%) 28 (93.3%) 4.84 2 0.089  4.2 9-11 6 (20%) 0 4.3 12-14 0 2 (6.7%)						
2.10 unit       25 (83.3%)       22 (73.3%)       0.530       3 0.912 No.530         2.21 unit       3 (10%)       6 (20%)         2.32 unit       1 (3.3%)       2 (6.7%)         2.43 unit       0       0         2.5> 4 unit       0       0         3) TLC       3.1       5,000 cumm       0         3.1       5,000 cumm       30 (100%)       30 (100%)         3.3> 11,000 cumm       0       0         4) Days of post-operative stay       4.16-8       24 (80%)       28 (93.3%)       4.84       2 0.089 No.530         4.2 9-11       6 (20%)       0       0       0       0         4.3 12-14       0       2(6.7%)       0       0       0		,				
2.21 unit       3 (10%)       6 (20%)         2.32 unit       1 (3.3%)       2 (6.7%)         2.43 unit       1 (3.3%)       0         2.5> 4 unit       0       0         3) TLC       3.1       5,000 cumm       0       NA         3.25,000-11,000 cumm       30 (100%)       30 (100%)         3.3> 11,000 cumm       0       0         4) Days of post-operative stay         4.16-8       24 (80%)       28 (93.3%)       4.84       2 0.089\bar{0}         4.2 9-11       6 (20%)       0         4.3 12-14       0       2(6.7%)		25 (83.3%)	22 (73.3%)	0.530	3	0.912 <sup>NS</sup>
2.32 unit       1 (3.3%)       2 (6.7%)         2.43 unit       1 (3.3%)       0         2.5> 4 unit       0       0         3) TLC       3.1       5,000 cumm       0       NA         3.25,000-11,000 cumm       30 (100%)       30 (100%)         3.3> 11,000 cumm       0       0         4) Days of post-operative stay       4.16-8       24 (80%)       28 (93.3%)       4.84       2 0.089         4.2 9-11       6 (20%)       0         4.3 12-14       0       2(6.7%)	2.21 unit					
2.43 unit     1 (3.3%)     0       2.5> 4 unit     0     0       3) TLC     3.1     5,000 cumm     0     NA       3.25,000-11,000 cumm     30 (100%)     30 (100%)       3.3> 11,000 cumm     0     0       4) Days of post-operative stay       4.16-8     24 (80%)     28 (93.3%)     4.84     2 0.089       4.2 9-11     6 (20%)     0       4.3 12-14     0     2(6.7%)						
2.5> 4 unit     0       3) TLC       3.1< 5,000 cumm		, ,				
3) TLC  3.1<5,000 cumm 0 0 NA  3.25,000-11,000 cumm 30 (100%) 30 (100%)  3.3>11,000 cumm 0 0  4) Days of post-operative stay  4.16-8 24 (80%) 28 (93.3%) 4.84 2 0.089  4.2 9-11 6 (20%) 0  4.3 12-14 0 2(6.7%)						
3.1     5,000 cumm     0     NA       3.25,000-11,000 cumm     30 (100%)     30 (100%)       3.3> 11,000 cumm     0     0       4) Days of post-operative stay     4.16-8     24 (80%)     28 (93.3%)     4.84     2 0.089 <sup>N</sup> 4.2 9-11     6 (20%)     0       4.3 12-14     0     2(6.7%)		U	U			
3.25,000-11,000 cumm 30 (100%) 30 (100%) 3.3> 11,000 cumm 0 0  4) Days of post-operative stay 4.16-8 24 (80%) 28 (93.3%) 4.84 2 0.089 4.2 9-11 6 (20%) 0 4.3 12-14 0 2(6.7%)	· · · · · · · · · · · · · · · · · · ·	0	0	NT A		
3.3> 11,000 cumm     0       4) Days of post-operative stay       4.16-8     24 (80%)     28 (93.3%)     4.84     2 0.089\text{N}       4.2 9-11     6 (20%)     0       4.3 12-14     0     2(6.7%)				NA		
4) Days of post-operative stay       4.16-8     24 (80%)     28 (93.3%)     4.84     2 0.089\text{N}       4.2 9-11     6 (20%)     0       4.3 12-14     0     2(6.7%)						
4.16-8     24 (80%)     28 (93.3%)     4.84     2 0.089 <sup>N</sup> 4.2 9-11     6 (20%)     0       4.3 12-14     0     2(6.7%)		U	U			
4.2 9-11     6 (20%)     0       4.3 12-14     0     2(6.7%)	· · · · · · · · · · · · · · · · · · ·	24 (000/)	20 (02 20)	4.04		o occ <sup>NS</sup>
4.3 12-14 0 2(6.7%)				4.84	2	0.089
1.5.13 (1		0	2(6.7%)			
	5) Duration of hospital stay					NO
				3.919	2	0.141 <sup>NS</sup>
5.212-16						
5.317-21 4 (13.3%) 1 (3.3%)		4 (13.3%)	1 (3.3%)			
6) Day of discharge						
		7 (23.3%)	9 (30%)	3.327	4	$0.505^{NS}$
6.27 <sup>th</sup> day of operation 12 (40%) 12 (40%)	6.27 <sup>th</sup> day of operation	12 (40%)	12 (40%)			

6.38 <sup>th</sup> day of operation	6 (20%)	7 (23.3%)			
6.49 <sup>th</sup> day of operation	2 (6.7%)	2 (6.7%)			
6.510 <sup>th</sup> day of operation	3 (10%)	0			
7)Days of follow up after discharge	<b>;</b>				
7.17 <sup>th</sup> day	5 (16.7%)	5 (16.7%)	4.633	6	$0.592^{NS}$
7.28 <sup>th</sup> day	1 (3.3%)	8 (26.7%)			
7.39 <sup>th</sup> day	9 (30%)	6 (20%)			
7.410 <sup>th</sup> day	6 (20%)	4 (13.3%)			
7.511 <sup>th</sup> day	4 (13.3%)	5 (16.7%)			
7.612 <sup>th</sup> day	4 (13.3%)	2 (6.7%)			
7.713 <sup>th</sup> day	1 (3.3%)				
8) Any post-operative complication	1				
8.1Yes	0	0	NA		
8.2No	30 (100%)	30 (100%)			

Table 3: Range, mean, median, standard deviation and mean percentage of self-care ability of women underwent hysterectomy in comparison and experimental group.

	Group	Range	Mean	Mean %	Median	SD
C 16	Comparison	63-79	71.68	54.3%	72.5	4.737
Self-care Ability	Experimental	96-113	103.63	78.5%	104	4.327

Table 4: Area wise mean, mean difference, standard deviation of difference, standard error of mean difference and 't' value of self care ability score of women underwent hysterectomy in comparison group and experimental group.

Self-Care Abili	ity	Mean Score	Mean Difference	SDd	SEmd	t Value	P value
Physical	Comparison	17.4	15.43	2.51	1.15	13.416	0.02*
Activities	Experimental	32.8	10110			101110	
Personal	Comparison	9.86	8.63	1.56	0.74	11.587	$0.12^{NS}$
Hygiene	Experimental	18.5					
Diet	Comparison	21.36	19.46	1.76	0.74	26.177	0.00*
	Experimental	40.83					
Exercise	Comparison	5.90	4.86	0.31	15.296	15.296	0.61 <sup>NS</sup>
	Experimental	10.76					
Emotional	Comparison	8.86	43	1.13	0.54	13.604	0.00*
Stress	Experimental	16.30					
Psychosocial	Comparison	6.26	3.26	0.71	3.70	8.820	0.01*
Activities	Experimental	9.53					
Sexual	Comparison	1.00	1.67	0.479	0.87	19.039	0.00*
Activities	Experimental	2.67					

The table 5 depicted that the association of self-care ability of women underwent hysterectomy with selected demographic variables i.e. Age (F = 1.820, p = 0.168), religion (t = 0.518, p = 0.608), types of family (t = 0.744, p = 0.463), social support (t = 0.122, p = 0.904), educational status (F = 0.172, p = 0.843), monthly

income in rupees (F = 0.471, p = 0.630), parity- number of living children (F = 0.250, p = 0.936) and number of abortion (t = 0.241, p = 0.811), types of operation (t = 1.592, p = 0.123), indication of operation (F = 1.572, p = 0.226) with any co morbid disease (t = 0.666, p = 0.511) of experimental group was found not significant at 0.05 level of significant.

Thus it can be inferred that there was no association of self-care ability with age, religion, types of family, marital status, educational status, occupation, monthly income in rupees, parity, types of operation, indication of operation with any co morbid disease in experimental group.

Table 5: ANOVAs and t test showing association of self care ability of women underwent hysterectomy with selected demographic variables in comparison group.

Demographic Variables	Mean	f/t test	df	P-value
1) Age				
1.1≤30 years	75.50	2.588	3/26	$0.75^{NS}$
1.231 – 40 years	71.25			
1.341 – 50 years	68.77			
1.451 – 60 years	77.00			
2) Religion				
2.1 Hindu	71.64	0.101	28	$0.920^{NS}$
2.2 Sikh	72.00			
3) Types of family				
3.1 Nuclear	72.31	0.793	28	0.343 <sup>NS</sup>
3.2 Joint	70.92			
Whether there is any social support for the women at home?				
Yes	69.00	0.819	28	0.419 <sup>NS</sup>
No	71.85			
4) Educational status				
4.1Non-literate	71.61	1.843	2/27	$0.178^{NS}$
4.2 Primary education	73.22			
4.3 Secondary education	67.33			
5) Monthly income in rupees				
5.1≤8000	70.36	2.448	2/27	$0.105^{NS}$
5.2 8001 – 9000	73.57			
5.390001 and above	69.20			
6) Parity				
a) No. of living children				
6a.2 2	70.60	1.808	2/27	$0.245^{NS}$
6a.3 3	74.11			
6a.4 4	70.66			
b) No. of abortion				
6b.1 0	72.43	1.658	28	$0.109^{NS}$
6b.2 1	69.14			
7) Types of operation				
7.1Vaginal hysterectomy	73.36	1.527	28	$0.138^{NS}$
7.2Abdominal hysterectomy	70.68			
8) Indication of operation				
8.1Fibroid uterus	70.86	0.699	2/27	$0.506^{NS}$
8.2UV prolapsed	71.90			
8.3AUB	74.00			
Co-morbid disease				
Yes	72.57	0.570	28	0.573 <sup>NS</sup>
No	71.39			

The table 6 depicted that the association of self-care ability of women underwent hysterectomy with selected demographic variables i.e. Age (F = 1.820, p = 0.168), religion (t = 0.518, p = 0.608), types of family (t = 0.744,

p=0.463), social support (t = 0.122, p = 0.904), educational status (F = 0.172, p = 0.843), monthly income in rupees (F = 0.471, p = 0.630), parity-number of living children (F = 0.250, p = 0.936) and number of

abortion (t = 0.241, p = 0.811), types of operation (t = 1.592, p = 0.123), indication of operation (F = 1.572, p = 0.226) with any co morbid disease (t = 0.666, p = 0.511) of experimental group was found not significant at 0.05 level of significant. Thus it can be inferred that there was

no association of self-care ability with age, religion, types of family, marital status, educational status, occupation, monthly income in rupees, parity, types of operation, indication of operation with any co morbid disease in experimental group.

Table 6: ANOVAs and t test showing association of self care ability score of women underwent hysterectomy with selected demographic variables in experimental group.

1.1530 years   100.75   1.820   3.26   0.168 NS   1.231 -40 years   104.88   1.341 -50 years   103.42   1.451 -60 years   99.50   1.451 -60 years   99.50 years   99.50   1.451 -60 years   99.50 years   99	Demographic Variables	Mean	F/t test	DF	P value
1.1   30 years   100.75   1.820   3.76   0.168   NS   1.231 - 40 years   104.88   1.231 - 40 years   104.88   103.42   1.451 - 60 years   99.50   103.42   1.451 - 60 years   99.50   1.88   1.88   1.451 - 60 years   99.50   1.88   1.88   1.651   1.88	1) Age				
1.231 - 40 years		100.75	1.820	3/26	$0.168^{NS}$
1.341 - 50 years   99.50   9	·	104.88			
1.451 - 61 years   99.50   2) Religion   103.90   0.518   28   0.608   88   2.1 Hindu   103.90   0.518   28   0.608   88   2.2 Sikh   103.00   3) Types of family   3.1 Nuclear   103.00   0.744   28   0.463   88   3.2 Joint   104.18   Whether there is any social support for the women at home?   West of the women at home   103.60   0.122   28   0.904   88   103.60   0.122   28   0.904   88   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   103.60   0.122   0.431   0.172   0.471   0	·	103.42			
2.1 Hindu	<u> </u>	99.50			
2.1 Hindu       103.90       0.518       28       0.608 <sup>NS</sup> 2.2 Sikh       103.00       3.7 Yeps of family       3.1 Nuclear       103.00       0.744       28       0.463 <sup>NS</sup> 3.2 Joint       104.18       3.2 Joint       104.18       3.2 Joint       3.2 Joint       104.00       0.122       28       0.904 <sup>NS</sup> No       103.60       3.2 Very color of the women at home?       104.00       0.122       28       0.904 <sup>NS</sup> No       103.60       4.1 Mon-literate       103.60       4.2 Primary education       104.11       4.3 Secondary education       104.11       4.3 Secondary education       104.11       4.3 Secondary education in rupees       4.2 Primary education       104.11       4.3 Secondary education in rupees       5.1 ≤8000       102.71       0.471       2/27       0.630 <sup>NS</sup> 5.2 800 1 ≤ 000       103.55       5.2 800 1 ≤ 000       103.55       5.2 800 1 ≤ 000       103.05       5.2 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000       8.3 800 1 ≤ 000	<u> </u>				
3) Types of family 3.1 Nuclear 103.00 0.744 28 0.463 NS 2.1 Joint 104.18  Whether there is any social support for the women at home?  Yes 104.00 0.122 28 0.904 NS 103.60  NO 103.60		103.90	0.518	28	$0.608^{NS}$
3.1 Nuclear       103.00       0.744       28       0.463 NS         3.2 Joint       104.18	2.2 Sikh	103.00			
3.2 Joint   104.18   Whether there is any social support for the women at home?   Yes	3) Types of family				
Whether there is any social support for the women at home?       104.00       0.122       28       0.904 NS         No       103.60		103.00	0.744	28	0.463 <sup>NS</sup>
Yes       104.00       0.122       28       0.904 <sup>NS</sup> No       103.60	3.2 Joint	104.18			
No       103.60         4) Educational status         4.1 Non-literate       103.18       0.172       2/27       0.843 NS         4.2 Primary education       104.11	Whether there is any social support for the women at home?				
4) Educational status 4.1 Non-literate 4.1 Non-literate 103.18 4.2 Primary education 104.11 4.3 Secondary education 104.20 5) Monthly income in rupees 5.1≤8000 102.71 0.471 2/27 0.630 <sup>NS</sup> 5.2 8001 − 9000 103.55 5.390001 and above 105.20 6) Parity a) No. Of living children 6a.1 0 103.00 6a.2 1 103.30 6a.2 1 103.30 6a.3 3 103.00 6a.4 4 105.60 6a.3 5 6a.5 5 103.20 6a.6 6 105.00 b) No. Of abortion 6b.1 0 103.72 0.241 28 0.811 <sup>NS</sup> 6b.2 1 103.20 7) Types of operation 7.1 Vaginal hysterectomy 104.50 8.1 Fibroid uterus 8.1 Fibroid uterus 8.2 UV prolapsed 101.55 8.3 AUB 105.00 105.01 105.00	Yes	104.00	0.122	28	0.904 <sup>NS</sup>
4.1 Non-literate 103.18 0.172 2/27 0.843 NS 4.2 Primary education 104.11 4.3 Secondary education 104.20 5.5 Monthly income in rupees 5.1≤8000 102.71 0.471 2/27 0.630 NS 5.2 8001 − 9000 103.55 5.390001 and above 105.20 6.2 105.20 6.2 103.30 6a.1 0 103.00 0.250 5/24 0.936 NS 6a.2 2 103.30 6a.4 4 105.60 6a.5 5 103.20 6a.6 6 105.00 6a.6 6 105.00 6b.1 0 103.00 6b.1 0	No	103.60			
4.2 Primary education       104.10         4.3 Secondary education       104.20         5) Monthly income in rupees	4) Educational status				
4.2 Primary education       104.10         4.3 Secondary education       104.20         5) Monthly income in rupees	4.1 Non-literate	103.18	0.172	2/27	0.843 <sup>NS</sup>
4.3 Secondary education 5) Monthly income in rupees  5.1≤8000 102.71 0.471 2/27 0.630 <sup>NS</sup> 5.2 8001 − 9000 103.55 5.390001 and above 6) Parity a) No. Of living children 6a.1 0 103.00 6a.2 2 103.30 6a.3 3 103.00 6a.4 4 105.60 6a.5 5 103.20 6a.6 6 105.00 b) No. Of abortion  6b.1 0 103.00 103.00 6b.2 1 103.00 6b.2 1 103.00  6b.1 0 103.00 6b.2 1 103.00  6b.1 0 103.00 6b.2 1 103.00  6b.2 1 103.00  6b.1 0 103.00 6b.2 1 103.00  6b.2 1 103.00  6b.2 1 103.00  6b.3 5 103.00  6b.3 5 103.00  6b.4 4 105.60 105.00  6b.5 1 105.00  6b.1 0 105.00  6b.1 0 105.00  6b.1 0 105.00  6b.2 1 105.00  6b.2 1 105.00  6b.2 1 105.00  6b.3 1 105.00  6b.4 1 105.00  6b.5 1 105.00  6b.5 1 105.00  6c.6 1 105.00  6c.7 1 1	4.2 Primary education	104.11			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		104.20			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5) Monthly income in rupees				
5.390001 and above       105.20         6) Parity		102.71	0.471	2/27	$0.630^{NS}$
6) Parity a) No. Of living children 6a.1 0 103.00 0.250 5/24 0.936 <sup>NS</sup> 6a.2 2 103.30 6a.3 3 103.00 6a.4 4 105.60 6a.5 5 103.20 6a.6 6 105.00 b) No. Of abortion 6b.1 0 103.72 0.241 28 0.811 <sup>NS</sup> 6b.2 1 103.20 7) Types of operation 7.1 Vaginal hysterectomy 101.90 1.592 28 0.123 <sup>NS</sup> 7.2 Abdominal hysterectomy 104.50 8) Indication of operation 8.1 Fibroid uterus 104.41 1.572 2/27 0.226 <sup>NS</sup> 8.2 UV prolapsed 101.55 8.3 AUB 105.00 Co-morbid disease Yes 101.44 0.666 28 0.511 <sup>NS</sup>	5.2 8001 – 9000	103.55			
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6a.1 0       103.00       0.250       5/24       0.936 NS         6a.2 2       103.30	6) Parity				
6a.2 2       103.30         6a.3 3       103.00         6a.4 4       105.60         6a.5 5       103.20         6a.6 6       105.00         b) No. Of abortion       6b.1 0       103.72       0.241       28       0.811 NS         6b.2 1       103.20       7) Types of operation         7.1 Vaginal hysterectomy       101.90       1.592       28       0.123 NS         7.2 Abdominal hysterectomy       104.50       8.1 Fibroid uterus       104.41       1.572       2/27       0.226 NS         8.2 UV prolapsed       101.55       8.3 AUB       105.00         Co-morbid disease       Yes       101.44       0.666       28       0.511 NS	a) No. Of living children				
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6a.4 4       105.60         6a.5 5       103.20         6a.6 6       105.00         b) No. Of abortion	6a.2 2	103.30			
6a.5 5       103.20         6a.6 6       105.00         b) No. Of abortion       103.72       0.241       28       0.811 NS         6b.1 0       103.72       0.241       28       0.811 NS         6b.2 1       103.20         7) Types of operation       101.90       1.592       28       0.123 NS         7.2 Abdominal hysterectomy       104.50         8) Indication of operation       104.41       1.572       2/27       0.226 NS         8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease         Yes       101.44       0.666       28       0.511 NS	6a.3 3	103.00			
6a.6 6       105.00         b) No. Of abortion       103.72       0.241       28       0.811 NS         6b.2 1       103.20       103.20         7) Types of operation       101.90       1.592       28       0.123 NS         7.2 Abdominal hysterectomy       104.50         8) Indication of operation       104.41       1.572       2/27       0.226 NS         8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease         Yes       101.44       0.666       28       0.511 NS	6a.4 4	105.60			
b) No. Of abortion 6b.1 0 103.72 0.241 28 0.811 NS 6b.2 1 103.20  7) Types of operation 7.1 Vaginal hysterectomy 101.90 1.592 28 0.123 NS 7.2 Abdominal hysterectomy 104.50  8) Indication of operation 8.1 Fibroid uterus 104.41 1.572 2/27 0.226 NS 8.2 UV prolapsed 101.55 8.3 AUB 105.00  Co-morbid disease  Yes 101.44 0.666 28 0.511 NS	6a.5 5	103.20			
6b.1 0       103.72       0.241       28       0.811 NS         6b.2 1       103.20         7) Types of operation	6a.6 6	105.00			
6b.2 1       103.20         7) Types of operation       101.90       1.592       28       0.123 NS         7.2 Abdominal hysterectomy       104.50         8) Indication of operation       104.41       1.572       2/27       0.226 NS         8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease         Yes       101.44       0.666       28       0.511 NS	b) No. Of abortion				
7) Types of operation  7.1 Vaginal hysterectomy  7.2 Abdominal hysterectomy  8) Indication of operation  8.1 Fibroid uterus  8.2 UV prolapsed  8.3 AUB  105.00  Co-morbid disease  Yes  101.90  1.592  28  0.123 <sup>NS</sup> 104.50  104.50  105.00  105.00  105.00  105.00  105.00	6b.1 0	103.72	0.241	28	0.811 <sup>NS</sup>
7.1 Vaginal hysterectomy       101.90       1.592       28       0.123 <sup>NS</sup> 7.2 Abdominal hysterectomy       104.50         8) Indication of operation         8.1 Fibroid uterus       104.41       1.572       2/27       0.226 <sup>NS</sup> 8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease         Yes       101.44       0.666       28       0.511 <sup>NS</sup>	6b.2 1	103.20			
7.1 Vaginal hysterectomy       101.90       1.592       28       0.123 <sup>NS</sup> 7.2 Abdominal hysterectomy       104.50         8) Indication of operation         8.1 Fibroid uterus       104.41       1.572       2/27       0.226 <sup>NS</sup> 8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease         Yes       101.44       0.666       28       0.511 <sup>NS</sup>	7) Types of operation				
7.2 Abdominal hysterectomy       104.50         8) Indication of operation       104.41       1.572       2/27       0.226 <sup>NS</sup> 8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease         Yes       101.44       0.666       28       0.511 <sup>NS</sup>	· · · · · ·	101.90	1.592	28	0.123 <sup>NS</sup>
8) Indication of operation  8.1 Fibroid uterus  104.41  1.572  2/27  0.226 <sup>NS</sup> 8.2 UV prolapsed  101.55  8.3 AUB  105.00  Co-morbid disease  Yes  101.44  0.666  28  0.511 <sup>NS</sup>					
8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease       101.44       0.666       28       0.511 <sup>NS</sup>	· · · · · · · · · · · · · · · · · · ·				
8.2 UV prolapsed       101.55         8.3 AUB       105.00         Co-morbid disease       101.44       0.666       28       0.511 <sup>NS</sup>	8.1 Fibroid uterus	104.41	1.572	2/27	$0.226^{NS}$
8.3 AUB     105.00       Co-morbid disease     101.44     0.666     28     0.511 <sup>NS</sup>	8.2 UV prolapsed	101.55			
Yes 101.44 0.666 28 0.511 <sup>NS</sup>	8.3 AUB	105.00			
	Co-morbid disease				
	Yes	101.44	0.666	28	0.511 <sup>NS</sup>
	No	103.28			

Table 7: ANOVAs and t test showing association of self care ability of women underwent hysterectomy with selected preoperative and postoperative clinical variables in comparison group.

Clinical Variables	Mean	F/t test	DF	P value
Preoperative				
1) Blood group				
1.1 A +ve,	72.44	0.454	3/26	$0.717^{NS}$
1.2 B +ve,	72.25	0.151	3/20	0.717
1.3 O +ve,	69.80			
1.4 AB+ve,	70.50			
2) Days of pre-operative stay	70.50			
2.1 1-3	71.14	1.155	2/27	$0.330^{NS}$
2.2 4-6	71.20	1.133	2,2,	0.550
2.3 7-9	75.00			
Postoperative	73.00			
1) Haemoglobin				
1.1 < 3 gm%	72.00	1.654	2/27	$0.732^{NS}$
1.2 3 gm% - 6.9 gm%	72.78	1.05 1	2,2,	0.732
1.3 7 gm% - 11 gm%	69.50			
1.4 > 11 gm%	07.50			
2) Blood transfusion				
5.2 0 unit	71.36	0.259	3/26	$0.854^{NS}$
5.3 1 unit	74.00	0.237	3,20	0.051
5.4 2 unit	72.00			
5.5 3 unit	72.00			
3) Days of post-operative stay	72.00			
3.16-8	71.75	0.189	28	0.851 <sup>NS</sup>
3.2 9-11	71.73	0.169	20	0.651
4) Duration of hospital stay	/1.55			
4.1 7-11	72.14	1.918	2/27	0.166 <sup>NS</sup>
4.2 12-16	72.14	1.916	2/2/	0.100
4.3 17-21	75.00			
5) Day of discharge	73.00			
5.1 6 <sup>th</sup> day of operation	74.57	2.050	4/25	0.118 <sup>NS</sup>
5.1 6 day of operation 5.2 7 <sup>th</sup> day of operation	69.75	2.030	4/23	0.118
5.3 8 <sup>th</sup> day of operation	72.16			
5.4 9 <sup>th</sup> day of operation	67.50			
4				
<ul><li>5.5 10<sup>th</sup> day of operation</li><li>6) Days of follow up after discharge</li></ul>	74.33			
6.1 7 <sup>th</sup> day	68.20	1.604	6/23	0.592 <sup>NS</sup>
		1.004	0/23	0.392
6.2 8 <sup>th</sup> day	79.00			
6.3 9 <sup>th</sup> day	73.22			
6.4 10 <sup>th</sup> day	71.16			
6.5 11 <sup>th</sup> day	71.75			
6.6 12 <sup>th</sup> day	69.75			
6.7 13 <sup>th</sup> day	71.66			

The table 7 depicted that there was no association of self-care ability of women underwent hysterectomy with selected clinical variables i.e. blood group (F = 0.454, p = 0.717), haemoglobin (F = 1.654, p = 0.732), blood transfusion (F = 0.259, p = 0.854), days of pre-operative stay (F = 1.155, p = 0.330), days of post-operative stay (t = 0.189, p = 0.851), duration of hospital stay (F = 1.918, p = 0.166), day of discharge (F = 2.050, p = 0.118) and

day of follow up (F = 1.604, p = 0.191) of comparison group were found not significant at 0.05 level of significant indicating that self-care ability score of women underwent hysterectomy were not dependent on age, religion, types of family, social support, marital status, educational status, occupation, monthly income in rupees, parity, types of operation, indication of operation with any co morbid disease.

The table 8 shows that there was significant association of self-care ability with days of postoperative stay (t = 2.762, p = 0.010) which was found statistically significant at 0.05 level indicating that self-care ability score was dependent on days of postoperative stay which means >12 days the patient stays at hospital under supervision more self-care ability is developed. Further, there was no significant association of blood group (F = 1.367, p = 0.275), haemoglobin (t = 0.459, p =

0.305), blood transfusion (F = 0.526, p = 0.637), days of pre-operative stay (F = 1.045, p = 0.597), duration of hospital stay (F = 1.729, p = 0.197), day of discharge (F = 2.827, p = 0.118) and day of follow up (F = 0.435, p = 0.820) of experimental group were not found statistically significant at 0.05 level of significant.

Thus, null hypothesis  $H_3$  was partially accepted and research hypothesis  $H_{03}$  was partially rejected.

Table 8: ANOVAs and t test showing association of level of mean gain after implementation of discharge planning on self care ability of women underwent hysterectomy with selected preoperative and postoperative clinical variables in experimental group.

Clinical Variables	Mean	F/t test	DF	P value
Preoperative				
1) Blood group				
1.1 A +ve,	105.16	1.367	3/26	$0.275^{NS}$
1.2 B +ve,	104.14			
1.3 O +ve,	101.75			
1.4 AB+ve,	103.63			
2) Days of pre-operative stay				
2.1 1-3	103.13	1.045	28	$0.305^{NS}$
2.2 4-6	105.00			
Postoperative				
1) Haemoglobin				
1.1 3 gm% - 6.9 gm%	105.00	0.459	2/27	$0.637^{NS}$
1.2 7 gm% - 11 gm%	103.73			
1.3 > 11 gm%	101.00			
2) Blood transfusion				
2.1 0 unit	103.13	0.526	2/27	$0.597^{NS}$
2.2 1 unit	105.00			
2.3 2 unit	105.00			
2.4 3 unit	72.00			
3) Days of post-operative stay				
3.1. 6-8	103.10	2.762	28	0.010*
3.2 12-14	111.00			
4) Duration of hospital stay				
4.1 7-11	102.91	1.729	2/27	0.197 <sup>NS</sup>
4.2 12-16	105.50			
4.3 17-21	109.00			
5)Day of discharge				
5.16 <sup>th</sup> day of operation	103.11	2.827	3/26	0.118 <sup>NS</sup>
5.27 <sup>th</sup> day of operation	101.85			
5.38 <sup>th</sup> day of operation	111.00			
5.49 <sup>th</sup> day of operation	103.63			
6) Days of follow up after discharge				
6.1 7 <sup>th</sup> day	102.80	0.435	5/24	$0.820^{NS}$
6.2 8 <sup>th</sup> day	102.75			
6.3 9 <sup>th</sup> day	104.50			
6.4 10 <sup>th</sup> day	102.25			
6.5 11 <sup>th</sup> day	104.80			
6.6 12 <sup>th</sup> day	1000			

#### **DISCUSSION**

The present study shows that the types of operation were vaginal hysterectomy (35%) and abdominal hysterectomy (48.33%) in comparison and experimental group. The indication of vaginal hysterectomy was uterovaginal prolapse (33.33%) whereas indication for abdominal hysterectomy were uterine fibroid (50%) and AUB (13.33%) in comparison and experimental group respectively which are consistent to the findings of Umeora et al., which shows that the type of operation were 33 (52.2%) were abdominal hysterectomies while 29 (46.8%) were vaginal hysterectomies. The indication of vaginal hysterectomy was uterovaginal hysterectomy and uterine fibroid was the commonest indication for abdominal hysterectomy. Teaching reduced emotional stress in experimental group which are similar to the findings Ozdemir et al., where significant difference in anxiety was recorded after implementation of training and relaxation exercises. The implementation of structure discharge planning was effective as indicating teaching enhanced ability scores in the area of physical activities, diet, emotional stress, psychological activities and sexual activities which are similar to the findings of Williams B shows that the importance of nurses providing specific and accurate verbal and printed discharge information to all patients was effective in the area of pain and wound management, activity, nutrition and complications generally. The structure discharge planning was effective as the women can able to perform self-care after return to home which are similar findings of Easton K et al shows that the beneficial effects on patient attitudes of the introduction of patient information leaflets, a preadmission clinic and a telephone advice service following discharge.

# Limitations

Generalization of the findings is limited. In the present study, questionnaire regarding sexual activity were formed in present tense statement it can be further modified in future tense statement for better result.

# Recommendation

The researcher recommended that the study need to be replicated on large sample to validate and generalize its findings. A descriptive study can be carried out to identify the barriers of self-care abilities of women underwent hysterectomy. A comparative study to assess the severity of depressive symptoms and poor self-care abilities among two different group of women underwent hysterectomy can be conducted.

### **CONCLUSIONS**

The study was conducted to evaluate the effectiveness of structured discharge planning on self-care ability among women underwent hysterectomy in Maharishi Makandeshwar Institute of Medical Science & Research, Hospital, Mullana. The study concluded that the self-care ability in comparison group, most of the women had an average score but in experimental group, most of the women had very good score. The study finding reveal that there is effective of structured discharge planning where the women underwent hysterectomy can prevent the complication after hysterectomy.

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