

# Study of Acceptance of Minimal Invasive Surgeries in General Population in Comparison to Open Surgeries in Gynecological conditions

DR. ALISHA KHAN , POSTGRADUATE STUDENT  
DR. ASTHA SHARMA , POSTGRADUATE STUDENT  
DR. POOJA DEODHAR , PROFESSOR

## ABSTRACT

**Introduction-** Minimally invasive surgery is the standard of care in the surgical management of many gynecological conditions and is a modality commonly offered during treatment planning. Laparoscopic or minimal invasive surgeries for various benign and malignant gynecological diseases result in shorter hospital stays, improved quality of life and improved surgical outcomes when compared with open abdominal surgeries. There are information , such as brochures, pamphlets, and online resources, which can provide patients with basic information about minimally invasive options. Despite these resources and the frequent use of minimally invasive techniques, there are few data that demonstrate patients' understanding of the advantages, disadvantages, and appropriate indications for their use.

**Objective-** To investigate patient's knowledge, attitude and acceptance toward surgical approaches in laparoscopic hysterectomy and abdominal hysterectomy.

**Method-** We conducted study and extracted data. A total of 50 women seeking gynecological care, perspectives were taken in account , advantage and disadvantage of both kind of surgical approaches were explained and their acceptance for it were registered.

**Result-**60% of the participants did not understand the difference between the Laparoscopic and open surgeries. from remaining,50% of participants knew that minimal invasive surgeries are better surgical approach than open abdominal surgeries.

**Key Words-** counseling , acceptability , costs , advantages , laparoscopic and open surgeries

## INTRODUCTION

- **Minimally invasive surgery is the standard of care in the surgical management of many gynecological conditions and a modality commonly offered during treatment planning.**
- Numerous studies have demonstrated that utilizing Laparoscopic or minimal invasive surgeries for various benign and malignant gynecological diseases result in shorter hospital stays, improved quality of life and improved surgical outcomes when compared with open abdominal surgeries.
- **There are information , such as brochures, pamphlets, and online resources, which can provide patients with**

Despite these resources and the frequent use of minimally invasive techniques, there are few data that demonstrate patients' understanding of the advantages, disadvantages, and appropriate indications for their use.

## OBJECTIVE

- To investigate patient's knowledge, attitude and acceptance toward surgical approaches in laparoscopic hysterectomy and abdominal hysterectomy .

## Material and Methods

- We conducted a study and extracted data from a total of 200 women from jan21 to jan22 who underwent hysterectomies , their perspectives were taken in account , advantage and disadvantage of both kind of surgical approaches were explained and their acceptance for it were registered.
- Data collected on the basis of questions asked to each patient to rate their degree of familiarity with different surgical modalities(tah/tlh) or asked them specific questions about the difference between one method and another.
- Place of study – IMCHRC, Indore.

### PRE OP CRITERIA

- Counseling done for both the surgeries.
- Advantage & Disadvantage of both the surgery explained.
- Cost explained of abdominal and laparoscopic hysterectomies to the patients.

### Advantages & Disadvantages of LAPAROSCOPIC

ADVANTAGES	DISADVANTAGES
	Requires special equipments.
Short Duration of Hospital stay	Specialist Training required
Less Trauma to the patient.	Equipments is more expensive.
Less pain	Some procedures especially the late may longer
Less Blood Loss	Some complications may be masked eg – biliary peritonitis.

### Advantages & Disadvantages of Open surgery.

ADVANTAGES	DISADVANTAGES
Ensure right kind of treatment as it allows surgeons to access the internal abdominal areas more clearly & efficiently	Big incision is being given
Insertion of stuff like mesh in hernia operation	Longer Hospital stay
Ensure other tissue of the body are not affected.	More Trauma to patient

	More Pain
	More blood loss

**Inclusion Criteria**

- Age 30-60 yrs with gynaecological problems.
- Post Operative TAH & TLH patients.
- Counseled about surgeries preoperatively .

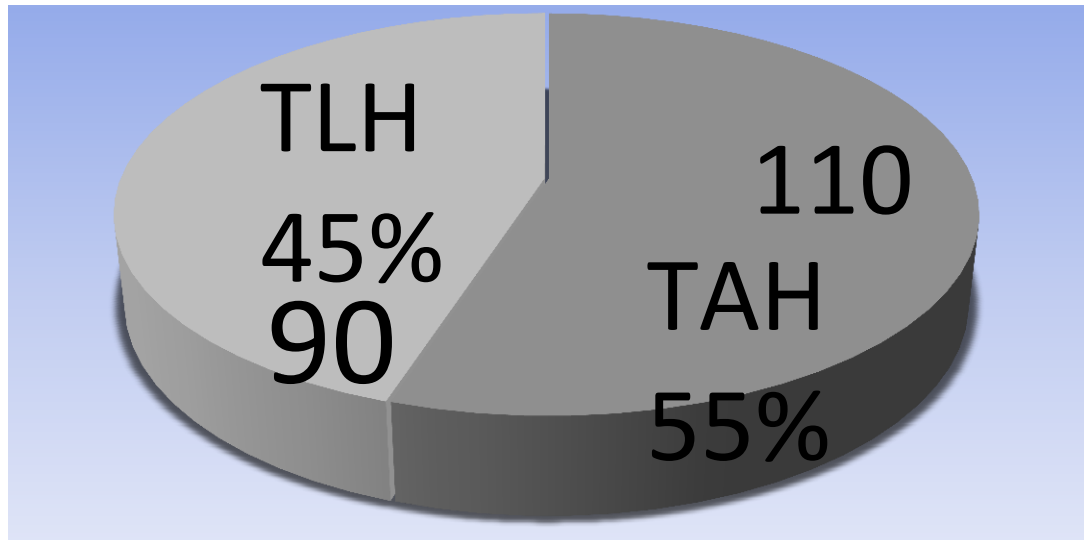
**Exclusion Criteria**

- Age <30 or >60 yrs.
- Not having any gynaecological problems.
- Not gone through any surgery.
- Not been informed / counseled about surgeries.

**RESULT**

**PATIENT UNDERGONE HYSTERECTOMIES**

Pie chart :1



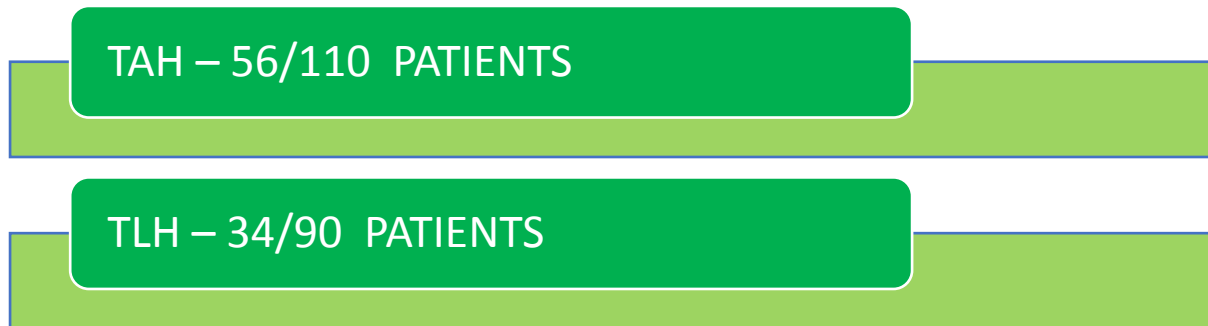
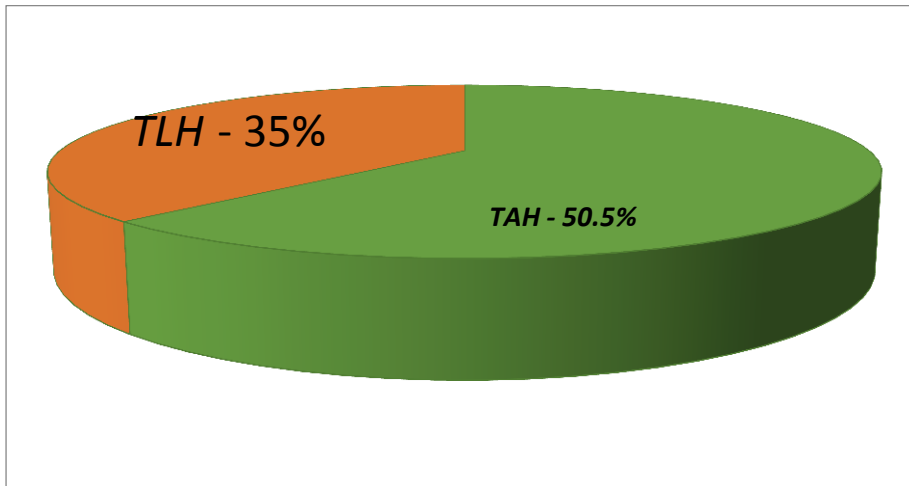
- Around 10% (20 peoples) of the participants did not understand the difference between the Laparoscopic and open hysterectomies. 40%(80) of participants knew that laparoscopic hysterectomy is better than open abdominal hysterectomy.

- Before undergoing a surgery, 70% of total participants would consult their physicians to discuss the best options. However, 30% of them would use the internet as their first source of information.
- When participants were asked to choose among the two available approaches if they were to undergo an abdominal surgery, 55% chose open approach and 33% had no preference therefore, gone after counselling with laparoscopic surgery

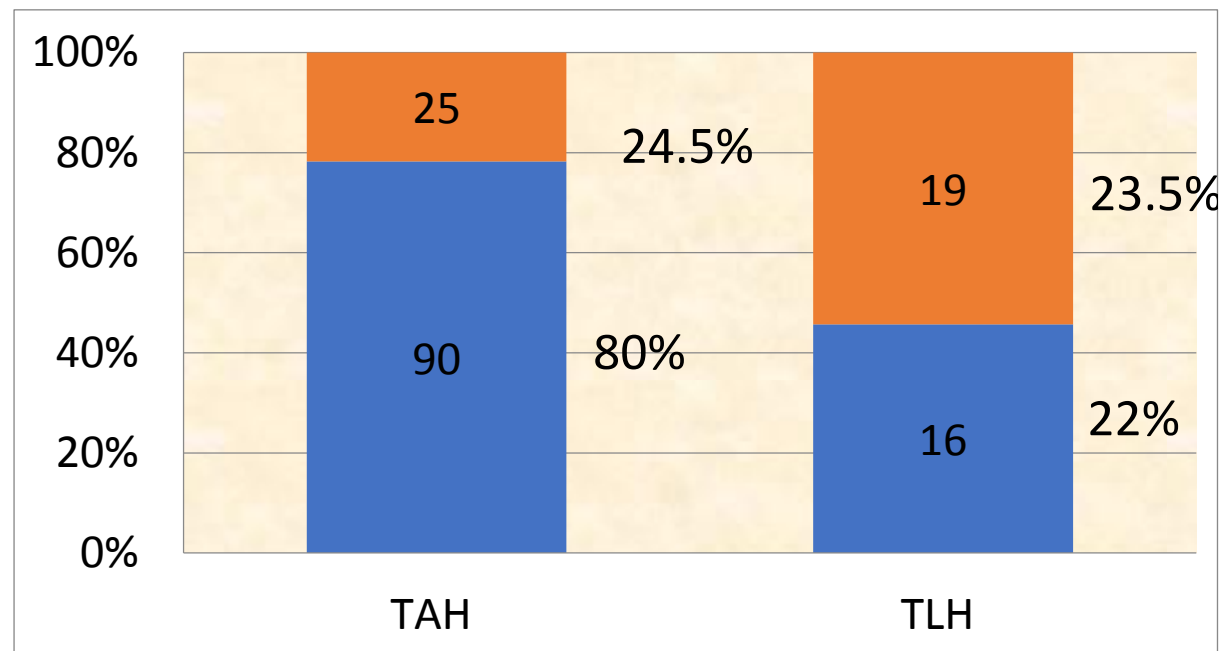
**Table 1 : POST OP CRITERIA**

Characteristics	Out of 110	Percentage	Out of 90	Percentage
	TAH		TLH	
Post op Pain	56	50.5%	34	35%
Duration of Hospital Stay(more than 4 days )	90	80%	16	22%
General opinion for abdominal hysterectomy influenced by relatives .	38	36.5%	14	21.5%
Complication	25	25%	19	23.5%

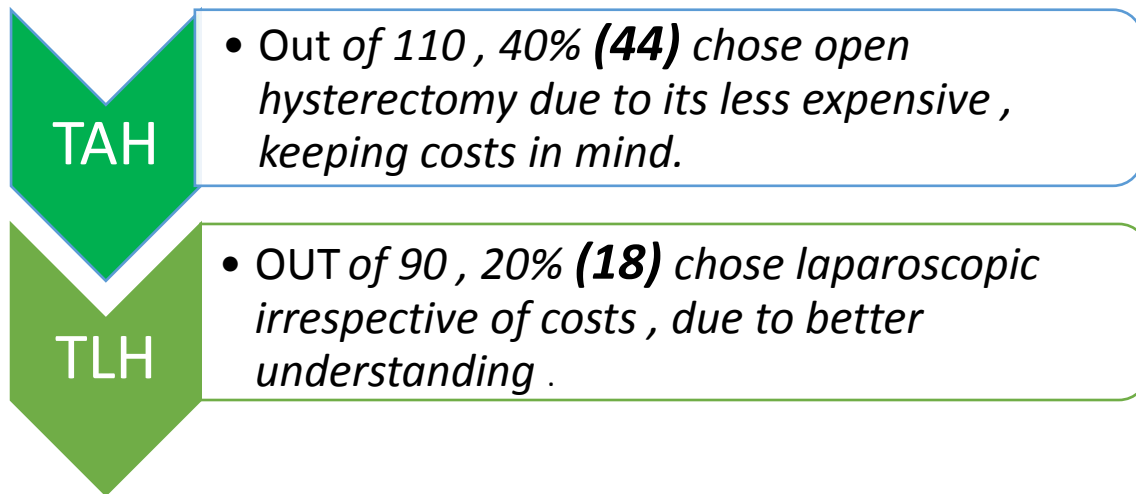
**PIE CHART: 2 SHOWING POST OP PAIN**



**Table 2 REGARDING COMPLICATIONS AND DURATION OF HOSPITAL STAY**



<b>Complications</b>	<b>25</b>	<b>19</b>
<b>Duration of stay</b>	<b>90</b>	<b>16</b>

**ACCEPTABILITY REGARDING COSTS****Discussion**

- We have found that patients who seek GYN care are unaware of the differences between abdominal hysterectomy and laparoscopic hysterectomy available to them.
- It is important for surgeons to counsel their patients specifically about the risks and benefits of both the surgical approaches.
- In this study, 90% of the surveyed patients understood the differences between open and laparoscopic surgery.
- Furthermore, participants before counselling did not know that laparoscopic approach is associated with less pain, shorter hospital stay, and faster recovery than open abdominal approach.
- Although many participants after understanding the difference between open and laparoscopic hysterectomy chose open procedure under influence of relatives, peer groups and old mind state.
- Many patients were from rural areas came with the conservative thinking of open being better than laparoscopic.

**This study demonstrates that not all patients are aware of the differences in surgical approaches. Differences in education and surgical history may account for some of these differences, but not all. Health care providers may need to expand the time spent counseling their patients appropriately prior to any surgical procedure. This can be done via group information sessions, pamphlets, and brochures that can be made readily available in the office or via information that is displayed on the physician's website or blog.**

**CONCLUSION**

- Substantial percentage of patients do not understand the difference between various surgical approaches. *Health care providers should not assume that their patients have an adequate understanding of their surgical options and accordingly should educate*

*them about those options so they can make truly informed decisions.* Most of the general population accepted open over laparoscopic.

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**CONFLICT OF INTEREST** None

**FUNDING SUPPORT** Nil

### Question sheet to people were distributed

#### Questionnaire -

**(1) How well do you understand the differences between open abdominal surgery and laparoscopic surgery?**

I understand the difference:

- Not At All
- Moderately
- Very Well

**(2) In your opinion, which approach is better for patients? (Like less complications, faster recovery, shorter hospital stay, less pain, etc.**

- Open abdominal surgery
- laparoscopic surgery
- both are the same

**(3) In your opinion, which surgery costs more to the health care system/insurance?**

- Open abdominal surgery
- laparoscopic surgery

**(4) If you were having surgery, which approach would YOU prefer?**

- Open abdominal surgery
- Laparoscopic surgery
- does not really matter

**(5) If you needed surgery and you wanted to find out about the various options available, where would you first go for advice?**

- Family member/friend
- Doctor
- Internet

#### REFERENCES:

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