



## ORIGINAL ARTICLE



# Knowledge about anesthesia in patients undergoing surgery: In Gujarat and Gujarati Community in USA: A Survey

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### Abstract

This survey was conducted on general public has gone for surgery. This present study is conducted to assess and to compare, level of knowledge about anesthesia and anesthesiologist. After confirming their willingness to take part in the questionnaire, patients were explained a about the pattern of questions so they can reply without any confusion.

### MATERIALS AND METHODS

The survey was conducted by distributing questionnaires [Table 1 ] in google form. Two adults groups are [1] Indian gujarati community in USA and [2] Gujarat in India. Questionnaire was available in two languages (A) Gujarati (B) English Survey was conducted in postoperative period. All these groups have sub group of Male and Female. All questions are not compulsory because, Many patients have informed, “ I don’t remember We have promised, Participants that information collected will be kept confidential and are just for academic and research purpose.

Keywords: Anesthesia, anesthesiologist, distributing questionnaire, postoperative.

## 1 | INTRODUCTION

**A**naesthesia is a foremost supportive specialty. Although anaesthesiology has grown tremendously, but general public does not have the usual perception regarding it.

Anestheology is art and science. This plays important role during and after the surgery. Better management of vital functions, good pain relief, providing optimum surgical condition, Safety and close observation and control are done by anthologist.

Several studies about the knowledge and attitude of the patients towards anesthesiologist. is very narrow.

“ I don’t know” means he has worded when I was unconscious.

The health condition and functional status in patients with special needs are interrelated. These all depend

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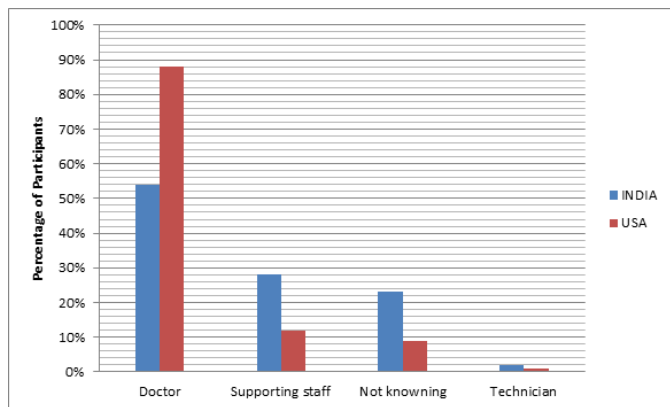
on types of surgery, personal fear and phobia are also important. Patient’s lack of co-operation needs art of anaesthetist.

Appropriate monitoring of patients while shifting was the most commonly overlooked aspect postoperatively it is depends on types of set up at hospital.

Because satisfaction is fulfilment of one’s expectations. The onus is anesthesiologist to explain and educate the patient about their role so peaceful and friend meeting is required.

Patient’s knowledge about and types of anaesthesia are depend on their educational level and previous exposure of surgery. Shortage of well trained anaesthetist in low and middle income country like India is tremendous, at same time anaesthetist has less social and public status.

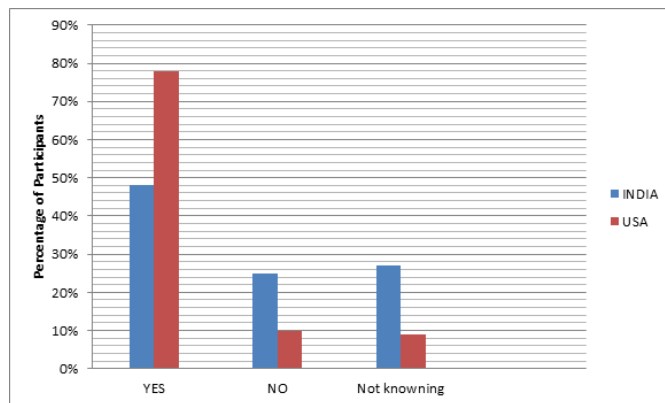
Allergic complication, Cardiac arrest, Techy-arrhythmias, Fainting / Vaso-vagal sycopal attack, Complications are observed. Nausea and vomiting, Dizziness and confusion, Aspiration of secretion are common complication. It is anesthetologist duty to look after and treat such complication.



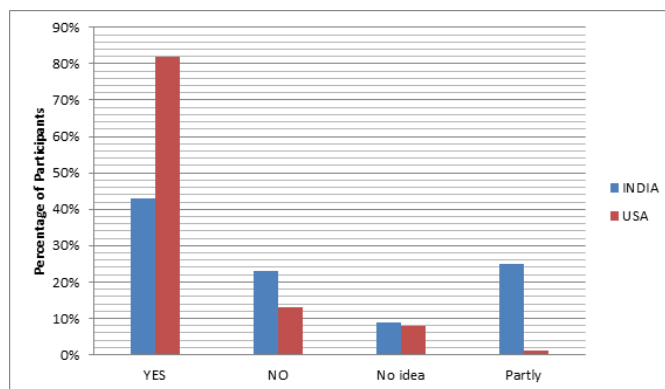
**FIGURE 1: Distribution of responses** Question Number 3:- How do you consider no anesthesiologist as a

**2 | DISCUSSION**

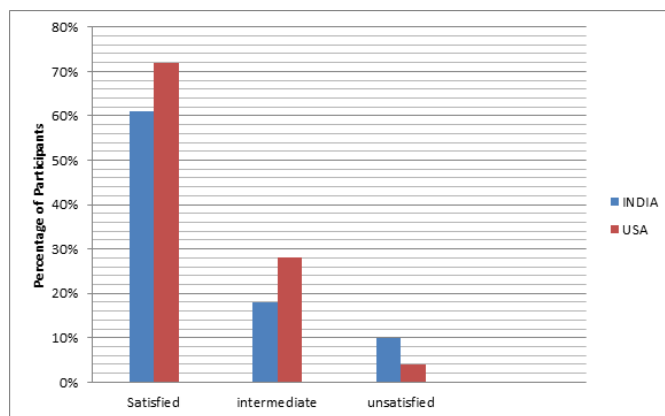
How aware is Indian population about their health and treatment? Adequate knowledge about medical branches must for general public. Compare advance country like USA, it is very poor and inappropriate.



**FIGURE 2: Distribution of responses** Question Number 9:- Do you think, it is important to meet anesthesiologist before the surgery ?



**FIGURE 3: Distribution of responses.** Is an anesthesiologist responsible for the recovery of the patients?

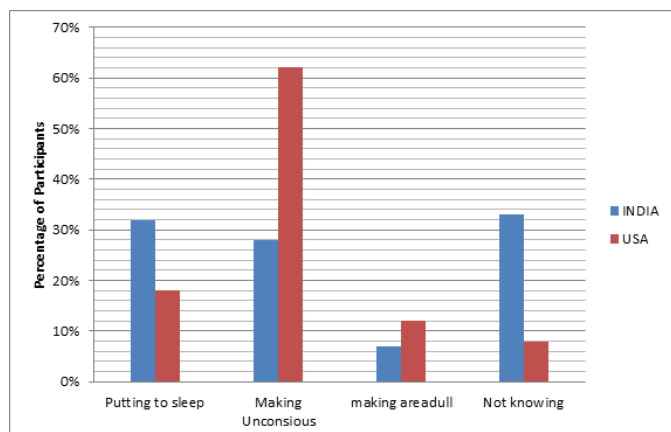


**FIGURE 4: Distribution of responses:** Have you .....with anesthesiologist?

# KNOWLEDGE ABOUT ANESTHESIA IN PATIENTS UNDERGOING SURGERY: IN GUJARAT AND GUJARATI COMMUNITY IN USA: A SURVEY

**TABLE 1: Questionnaires**

Sr.	Question	Answers options	Percentage of participant reply USA	Percentage of participant reply INDIA
1	Have you gone through	1A - emergency surgery 1B - elective surgery	100%	88%
2	Type of hospital where surgery have done?	2A - General Hospital 2B - specialized hospital 2C - Government hospital.	100%	98%
3	How do you consider An anesthetist as a	3A - Doctor 3B - Supporting staff 3C - not knowing	100%	100%
4	Do you know type of anesthesician?	4A - local 4B - general 4C - spinal 4D - Not knowing	98%	77%
5	Have the Hospital Introduce you to anesthetist ?	5A - Yes 5B - No	100%	96%
6	Do anesthesiologist stay throughout the procedure?	6A - Yes 6B - No	96%	86%
7	How many anesthesiologist were present in OT?	7A - No idea 7B - one 7C - more than one	88%	92%
8	Is anesthesiologist responsible for the recovery of patients?	8A - Yes 8B - No 8C - No idea	94%	92%
9	Do you think, it is important to meet anesthesiologist before the surgery?	9A - Yes 9B - No 9C - No idea	100%	78%
10	Have you ...	10A - satisfied 10B - intermediate 10C - dissatisfied	88%	82%
11	How satisfied were you with treatment of nausea and vomiting After the operation	11A - satisfied 11B - intermediate 11C - dissatisfied	98%	88%
12	How satisfied were you with pain therapy after the surgery? Part-2	12A - satisfied 12B - intermediate 12C - dissatisfied	88%	78%
13	What is the function of anesthesia?	<ul style="list-style-type: none"> <li>• Putting to Sleep</li> <li>• Making unconscious</li> <li>• Making area dull</li> <li>• Not knowing</li> </ul>	98%	88%
14	Would you like same anesthesiologist in future.	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	82%	61%
15	Your education qualification	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> level</li> <li>• Graudate</li> <li>• Illiterate</li> <li>• Male</li> <li>• Female</li> </ul>	100%	100%
16	Gender	<ul style="list-style-type: none"> <li>• Male</li> <li>• Female</li> </ul>	100%	100%
17	How many times have you gone through surgery	<ul style="list-style-type: none"> <li>• One</li> <li>• More than one</li> </ul>	100%	100%
18	What type of surgery was?	<ul style="list-style-type: none"> <li>• General</li> <li>• ENT</li> <li>• Cardiac</li> <li>• Neurological</li> <li>• Orthopaedic</li> <li>• Gynaecological</li> <li>• Urological</li> </ul>	100%	100%



**FIGURE 5: Distribution of responses:** Question No.13. What is the function of anesthesia?

**TABLE 2: Questions having only two options "Yes" of "No"**

No.	Particulars	INDIA		USA	
		Yes	No	Yes	No
1	Have the hospital introduced you to anesthetist?	68%	32%	100%	0%
2	Do naesthesologist stay through the procedure?	62%	38%	98%	2%
3	Would you like to prefer same anesthiologist in future?	72%	28%	88%	12%
4					

Why is the level of health awareness low about medical branches in Indian population?

Low educational status, poor functional literacy, low priority for health in the population, poor socio economic condition are main reason.

Unlike USA there is no well established medical system so there may not be primary health doctor's guidance.

It was very default to contact was performed especially in USA only 24 out of 96 total participant are from USA.

On other hand many Indian participant won't remember what was happened at that time. We, have scrutinized and those who are confident participant, only those were taken in to consideration. Percentage of participants are round off.

Hundred percent of participants are graduate from USA 76% of Indian participants are graduate, 16% are 12<sup>th</sup> level and 8% are illiterate.

72% of USA participants are Female and 28% are Male 62% of Indian participant are Female and 38% are Male.

In Indian participants 58% (gynecological), 22% (general surgery), 8% (cardiac), 8% orthopedic and 42% urological 13% ENT, 12% Neurological Surgeries were performed.

For USA participants 55% (general surgeries) 15% cardiac, 14% orthopedic, 11% urological and 5% gynecological and 5% gynecological surgeries were performed.

Majority of Indian participant don't know name or its contact of anesthiologist. Only 8% participant say "Yes" for future surgery.

On other hand 78% of participants say "yes" to anesthiologist for future surgery.

18% of Indian participants have gone through more than one time surgery.

Majority of Indian participant say only one anesthiologist were present in O.T.

Majority of USA participant say more than one anesthiologist were present in O.T..

### 3 | CONCLUSION

Majority of participants from India in our study were not aware of the role, types and techniques of anesthesia and the role of anesthiologists. Even those who has second time surgery This is because of lower level of education. On other hand 80% of participant from USA were aware of the role, types and techniques of anesthesia and the role of anesthiologist. Good communication with surgeons and good patient education will improve the anesthiologist's image in the eyes of the patients. It is up to hospital that they have full time anesthiologist so there is good patient-doctor communication. Medical education department (in several state, it is department of health education) Authorities like education department, MCI, Indian society of Anesthiologists, NGOs should take up these issues. Fulltime

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anesthesiologist at hospital can be the best option for patient- doctor interactions.

## LIMITATION OF STUDY

1. This is opinion base survey, it may vary from person to person.
2. All opinions are post operative condition. Surgery was performed way back. It is all about patient's memories.
3. This study was restricted to limited contacts are available at USA. Sample size is also small.
4. All that are staying at USA, we have treated as an American participants

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