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## Cognizance and attitude towards voluntary Body donation among people in Jodhpur Rajasthan after a scientific exhibition

**Mantri Eti, Yadav Jay Prakash and Kumar Mukesh**

### Abstract

**Aims and objective:** To study the awareness, knowledge regarding increasing number of body donation after a scientific exhibition.

**Material and method:** This study was conducted at the time of post-graduation period in Dr. S.N medical college, Jodhpur of Western Rajasthan, in India. A 5 days exhibition was conducted in Anatomy department, among the doctors and non-teaching staff, about 500 members. It also includes medical exhibition visitors i.e. the lawyers, engineers, teachers, farmers and others about 2000 -3000 members, to explore perception of people towards body donation during the year of 2015.

**Result:** Number of body donation was increased day by day after a successful exhibition.

**Conclusion:** The generous act is therefore is the gift of his/her body to the researchers to progress in the field of medicine. Donation provides students unparalleled opportunities to study the human body. Books and computer programs cannot replicate the hands-on method of teaching human anatomy. There is no substitute for the human body in the teaching of human anatomy.

**Keywords:** Anthropometry, Vertex, radial & ulnar tuberosity, Frankfurt's plane

### 1. Introduction

“Body donation is a major and preferred source of “cadaver” Worldwide. Anatomy is a unique subject dealing with the knowledge of study of human structures. A sound knowledge of anatomy is essential for medical professional students to begin their career and later become effective and competitive medical professionals. Decades ago, the bodies used for cadaver dissection were mostly belonging to those persons that had died from sickness and without relatives. At present almost all bodies for cadaveric dissection are donated. Voluntary body donation is act of giving away one's body after death without any conditions or rewards for sake of education and research in field of medicine. Body donors are wholeheartedly glad that their bodies will serve the progress of medical field after death. Taking the gratuitous love of body donors, students learn human anatomy. Current paper, Outlines the distinctive features and present state of anatomy education and body donation movement in Jodhpur, Importance of body donation in medical field

- It helps student to learn topographic localization of organs of the body.
- It also help in developing spatial and tactile appreciation for the fabric of human body.
- The emotional issue students may confront during dissection may guide them to become human physicians.
- Aside Cadavers are also used for practicing surgical skill.

### 2. Material and Method

The Teaching of Anatomy is completely based on body dissection. Cadavers arrived in our department of Anatomy are mainly voluntary bodies only. The study was conducted at the time of post-graduation period in Dr. SNMC, Jodhpur, and Rajasthan during the exhibition, among the doctors and non – teaching staff, about 500 members. It also includes visitors i.e. the lawyers, engineers, teachers, farmers and others about 2000 – 3000 members / day. A Slogan of the exhibition “Life and Science” we explain that how body donation helps even after dying, we can say that “after die they live” for science. In exhibition

- We demonstrate the body parts of cadavers

- b) How We Preserve Body and
- c) Explain how dissection is done
- d) Death after A myth (Horror show)

We taught school going children's about the human body structures and showing them. While this exercise created the excitement and curiosity among the population of Jodhpur

and nearby villages Media also played a very important role in spreading awareness.

A) Questionnaire designed to gain awareness regarding voluntary body donation and was distributed among the visitors.

**Domiciliary Background:** ..... **Type of Family:** ..... **Family Members:** ..... **Occupation:** .....

**Family Income(annual , in Rs.):** .....

Tick mark ✓ the option that best matches your view on Body donation.

S.No.	Item	Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree
1.	Donated body helps future doctors by serving as an educational tool in medical education						
2.	By donating the body, the donor makes himself/herself useful even after death for medical research						
3.	I would support a family member for body donation						
4.	I would share my awareness in regard to body donation with friends						
5.	I do not want to burden my family members with expensive funeral / burial rituals						
6.	My religion does not allow body donation						
7.	As donated body will be dissected in the learning process, it is possible that in the next life I will be born unfit (without some essential organs).						
8.	I doubt that the cadaver will not be buried or cremated after use.						
9.	I want to know more about the body donation procedure.						
10.	I think body donation is a noble act for the benefit of mankind.						

**Signature:** ..... **Date:** ..... **Place:** .....

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**Name:** ..... **Age/Sex:** ..... **Caste:** ..... **Educational Status:** ..... **Occupation:** .....

**Domiciliary Background:** ..... **Type of Family:** ..... **Family Members:** ..... **Family Income(annual , in Rs.):** .....

Tick mark ✓ the option that best matches your view on Body donation.

S.No.	Item	Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree
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10.	I think body donation is a noble act for the benefit of mankind.						

**Signature:** ..... **Date:** ..... **Place:** .....

**B) Displaying how the bodies were preserved in ancient time.**



**C) Explaining and demonstrating the visitors**

First step by reflecting the skin and showing internal structures.





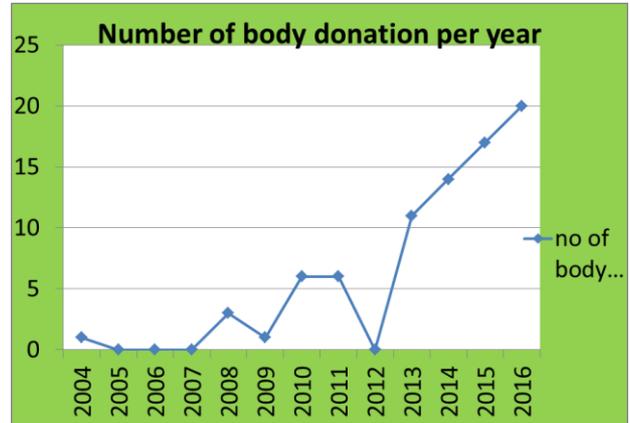
C) After removing muscles organs were shown



D) Fun and Study with Brain



E) Making Horror House to Remove a Myth After Death



3. Result

S. No	Year	No. Of body donation /year	Total
1	2004	1	
2	2005	0	
3	2006	0	
4	2007	0	
5	2008	3	
6	2009	1	42
7	2010	6	
8	2011	6	
9	2012	0	
10	2013	11	
11	2014	14	
12	2015	After exhibition 17	
13	2016	till nov 20	37

4. Discussion

- Cadaver based dissection have been a soul and teaching for studying human anatomy.
- Acharya Susruta also performed dissection around 600 BC I.e 5000 years back and same is mentioned in his book susruta samhita.
- Dissection has helped in development of knowledge, skill and percision in the field of medical practice.
- Abhijit B patil 2015 said that not among all the students of today’s generation are lucky enough to demonstrate thr dissection due to shortage of cadavers.
- Agthong and Wiwanitkit 2002; Assembly Nationale du Quebec 2004; U.K. department of health 2002; reported that:- A good cadaver is one ,not obese or evidently not diseased. United states and other couneteries, which require cadavers voice their fear of shortage of cadavers.
- Delmonica et al. 2002; Scheper-hughes 2000; Titmuss1971 all reported that question of shortage of the cadavers often facing the taboo on trading human anatomical goods.
- Philippe steiner 2009 said that: - transactions for organ donation for transplants is also facilitated but banned because of trade business. But specific rules are laid down to help the needy patients by organization.
- Rajkumari, Ajita, Y. Ibochouba singh (2007) reported that body donation and its relevance in anatomy learning.
- The present study suggest medical professionals have insist to explain about VBD is as important and educate the general public, and “No Can Replace the Natural Things”.
- People among the society are not ready to come out from their beliefs.So the medical institues and media has responsibility to propogate and spread awareness on this issue on large scale.
- Donating your body is generous and legal act, governed by the code of public health.
- Donation is voluntary act that a person can do to save lives (organ) of others or give body to the science.

5. Conclusion

- It is suggested that medical institutions and anatomists embark more enlightenment campaign regarding Voluntary body donation by conducting medical exhibition or programme and explain this is noble act.
- It is the fact wether to donate the body or is one’s own individual decision, but if everyone will start thinking

“WHY NOT ME INSTEAD OF “WHY ME” then no medical student will left from dissection in future.

- Donation provides students unparalleled opportunities to study the human body. It is done by following :-
  - 1) By developing a VBD programmed in each institute, so that the death of cadaver can be solved.
  - 2) Public campaigns, by use of meda for spreading awareness result towards the benefit of institutions.
  - 3) A concept of cadaver pooling can be done at the level of district / state and national, so that cadaver shortage problem might be solved.

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