

# Knowledge attitude and beliefs of medical students towards transgender Healthcare and laws pertaining to healthcare -A questionnaire - based study

## Registration ID: BMSseCON-2024-PHY-3029

### INTRODUCTION

Transgender is an umbrella term, under which fall people who live their daily lives as the gender opposite to that which is associated with the sex they were assigned at birth (transgender men and women). Transgender people face significantly greater discrimination and health disparities in health care settings than cisgender people. The role of education in eliminating this phenomenon has been increasingly recognized by many medical schools. Understanding and attitudes of medical students towards transgender men and women is very essential as they will encounter such people in future while providing health care

### AIM

To collect information on knowledge attitude and beliefs of medical students towards transgender Healthcare and laws pertaining to healthcare.

### OBJECTIVES

- To collect information on attitude and knowledge towards transgender men and women using ATTMMW questionnaires
- To assess knowledge on legal aspects related to transgender ( section 15 of transgender persons ( protection of rights) act, 2019)
- To calculate cumulative and individual scores of questionnaire and compare scores among different groups

### METHODS AND MATERIALS

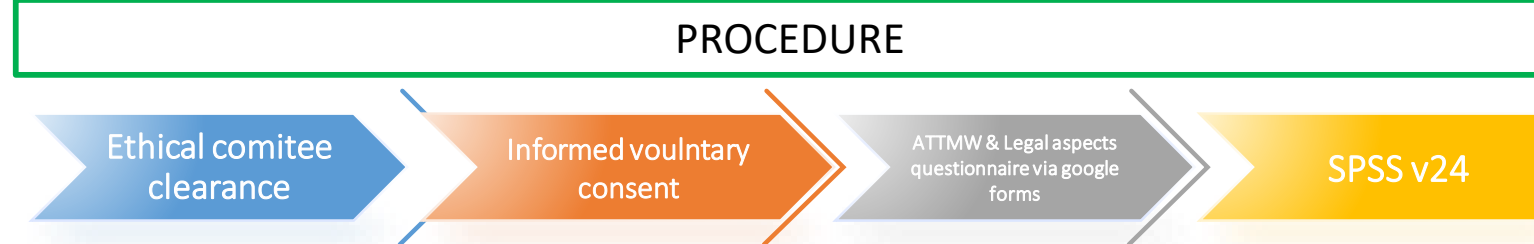
- Study design: Cross-sectional study
- Study place : Physiology department, Velammal Medical College Hospital and Research Institute, Madurai , Madurai medical college
- Sample size: 216
- Study duration: 2weeks
- Study population: MBBS undergraduate students between age of 18-25

### INCLUSION CRITERIA

MBBS undergraduate students between age of 18-25 years

### EXCLUSION CRITERIA

Students below the age of 18 years  
Students who are pursuing course other than MBBS



Score	Mean ± SD	Gender	Mean ± SD	Student's t-test p value
ATTMMW	80.4131.7	Male	89.9131.8	P=0.002*
		Female	76.1131.1	
ATTM	41.1158	Male	45.6616.2	P=0.002*
		Female	38.9115.5	
ATTW	39.2156.7	Male	43.4116.8	P=0.005*
		Female	37.2116.4	

Orientation	Score	Mean ± SD	ANOVA
Urban	ATTMMW	74.2111.4	p=0.000* Statistically significant difference found between urban – semirurban/rural locations
	ATTM	38.3115.8	
	ATTW	35.9116.2	
Semi urban	ATTMMW	85.7111.9	
	ATTM	43.8115.6	
	ATTW	42117.6	
Rural	ATTMMW	85.5110.8	
	ATTM	43.1116.5	
	ATTW	42.4115.3	

### DISCUSSION

- There is significant difference between men and women medical students regarding the attitude and understanding towards transgender men and women
- Sexual orientation do not influence the attitude and understanding towards transgender men and womenOrientation, sensitization and education session about transgender community improves the prejudice of medical students approach towards transgender men and women
- Significant difference exists when medical students were analysed for their geographical background and social strata they come from.
- 49% of the people feel there is a need for transgender specific research.
- 43% of people feel thath transgender can be considered as bride in marriage
- 40% of people feel neutral about establishment of seperate HIV- serosurveillance centre for transgender

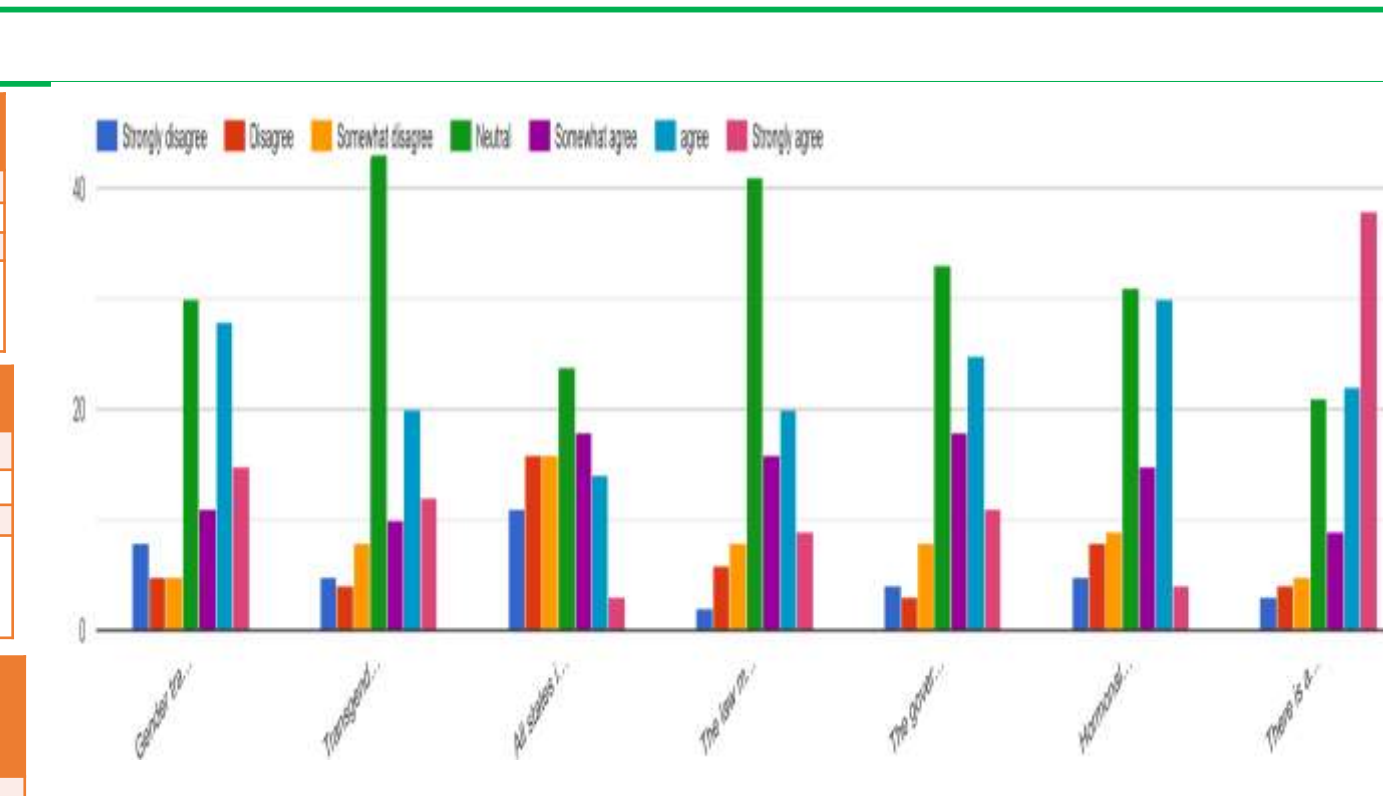
### RESULT

Orientation	Score	Mean ± SD	Student's t-test p value
Heterosexual	ATTMMW	80.811.6	0.36
	ATTM	41.1101.1	0.45
Non heterosexual	ATTMMW	79.816.4	0.29
	ATTM	42.4116.8	

Orientation	Score	Mean ± SD	Student's t-test p value
Prior sensitization	ATTMMW	64.9111	<0.0001
	ATTM	33.2111.7	<0.0001
No sensitization	ATTMMW	81.7110.7	<0.0001
	ATTM	44.6114.9	<0.0001

Orientation	Score	Mean ± SD	Student's t-test p value
Prior sensitization	ATTMMW	64.9111	<0.0001
	ATTM	33.2111.7	<0.0001
No sensitization	ATTMMW	81.7110.7	<0.0001
	ATTM	44.6114.9	<0.0001



### CONCLUSION

- Transgender education to medical students lowers the score of ATTMMW score scale
- Doctor's prejudice towards transgender community improves
- Improving the healthcare provided to such people

### QUESTIONNAIRE

	ATTMMW
	ATTW
	LEGAL ASPECTS

### REFERENCES

- Billard TJ (2018) Attitudes Toward Transgender Men and Women: Development and Validation of a New Measure. Front. Psychol. 9:387. doi: 10.3389/fpsyg.2018.00387
- Hill, D. B., and Willoughby, B. L. B. (2005). The development and validation of the Genderism and Transphobia Scale. Sex Roles 53, 531–544. doi: 10.1007/s11199-005-7140-x