



ISSN NO. 2320-5407

Journal Homepage: - [www.journalijar.com](http://www.journalijar.com)

## INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

Article DOI: 10.21474/IJAR01/18853  
DOI URL: <http://dx.doi.org/10.21474/IJAR01/18853>



### RESEARCH ARTICLE

#### TO ASSESS KNOWLEDGE ATTITUDE AND PRACTICE REGARDING ANAPHYLAXIS AMONG DENTAL STUDENTS IN TERTIARY CARE TEACHING HOSPITAL KHAMMAM

**Dr. R. Lekhana Sri<sup>1</sup>, Dr. K.V.N.R. Pratap<sup>2</sup>, Dr. T. Madhavipadma<sup>3</sup>, Dr. V. Sivakalyan<sup>4</sup> and Dr. V. Srujan Kumar<sup>5</sup>**

1. Student, Department of Public Health Dentistry, Mamata Dental College, Khammam, India.
2. Professor and HOD, Department of Public Health Dentistry, Mamata Dental College, Khammam, India.
3. Professor, Department of Public Health Dentistry, Mamata Dental College, Khammam, India.
4. Reader, Department of Public Health Dentistry, Mamata Dental College, Khammam, India.
5. Senior Lecturer, Department of Public Health dentistry, Mamata Dental College, Khammam, India.

#### *Manuscript Info*

##### *Manuscript History*

Received: 05 April 2024

Final Accepted: 09 May 2024

Published: June 2024

##### *Key words:-*

Anaphylaxis, Dental Students,  
Knowledge, Attitude, Practice, Tertiary  
Care, Teaching Hospital

#### *Abstract*

**Background:** The term anaphylaxis which was first used in the late 1800's by French scientist Charles Richet, describes a severe allergic reaction that can be fatal .It develops when an allergen a foreign substance causes the immune system to overreact setting off a series of physiological reactions across the body . understanding the knowledge attitude and practice regarding anaphylaxis is important for dental students as they may come across anaphylactic emergencies in their clinical set up.

**Aim:** To assess knowledge attitude and practice regarding anaphylaxis among dental students in tertiary care teaching hospital khammam.

**Objectives:** To determine the knowledge attitude and practice regarding anaphylaxis among dental students based on gender. To determine the knowledge attitude and practice regarding anaphylaxis among dental students based on year of study.

**Method :**A cross sectional study was conducted among dental students (I, II,III ,IV,Interns)in a tertiary care teaching hospital khammam using a web based tool called forms pro a semi structural online questionnaire was designed and distributed to students in order to fill , Descriptive studies and chi square test were calculated using SPSS version 29.

**Result:** A total of 201 students took part with females (57. 7%)and males(42.3%).Age of participants ranges from 19--25 years .In this study females have more knowledge regarding anaphylaxis than males among dental students Interns have more knowledge followed by IV year students followed by III year students, followed by I year students ,followed by IIyear students.

**Conclusion:**The study result suggest that the knowledge attitude and practice regarding anaphylaxis among dental students is adequate.

*Copy Right, IJAR, 2024,. All rights reserved.*

**Corresponding Author:- Dr. R. Lekhana Sri**

Address:- Student, Department of Public Health Dentistry, Mamata Dental College,  
Khammam, India.

### Introduction:-

Anaphylaxis is a excessive, doubtlessly life threatening allergy which could arise rapidly. It is characterized through a giant launch of mediators from mast cells and basophils precipitated through an allergen. This situation needs instant clinical interest and may have an effect on more than one organsystem ,mainly to respiration distress, cardiovascular fall apart and different extreme signs and symptoms. Anaphylaxis generally effect from the activation of immune device in reaction to allergen .The maximum triggers consists of foods(includes peanuts, tree nuts, shellfish and dairy) . Insect stings ,medications and commonly latex the procedure starts off evolved whilst a character with a predisposed sensitivity to an allergen encounters the triggering substance their allergen binds to Immunoglobulin (Ig E), antibodies at the floor of mast cells and basophil. Inflicting those cells to launch histamine and different inflammatory mediators. This launch results in vasodilation, extended vascular permeability, bronchoconstriction and mucous secretion. The cascade of occasions effects within side the medical manifestations of anaphylaxis that could be variable from slight hives , itching to supreme reaction inclusive of airway obstruction. Symptoms typically arise inside minutes to hours after publicity to allergen and they could develop rapidly. The first line remedy involves epinephrine administered intramuscularly within the anterolateral aspect of thigh it works through vasoconstriction ,decreased airway edema ,and counteracting bronchoconstriction. Antihistamines and corticosteroids may be used to control signs and symptoms and save you from a biphasic reaction in which signs and symptoms reoccur after preliminary improvement. Intravenous fluids to deal with hypotension .

### Methodology:-

- A) study design and area:- A cross sectional study was carried out at tertiary care teaching hospital khammam  
 B) Study population: The health care students including those of I,II,III,IV year and interns who responded to the online questionnaire sent through social media  
 C) Study Instrument: A self administered questionnaire was designed based on knowledge attitude and practice had total 13 questions and through online forms pro link. Each participant has to fill their demographic data like Name, age, and year of study. Participant has to select one option from the answers provided against questions the questions were based on knowledge attitude and practice regarding anaphylaxis among dental students  
 D) Pilot study :A pilot study was conducted on a group of students to assess the validity and reliability of study  
 E) Sampling method: The sampling method used is convenience method  
 F) Inclusion criteria: The students who were interested in study and who are willing to participate  
 G) Exclusion criteria: students who are not willing to participate are excluded  
 H) Organizing the study: The purpose of study was explained in short note which was sent along with link via social media participants were asked to select one option from the answers provided against the questions  
 I) Statistical analysis: Data from the filled questionnaire was conducted in a tabular form in an excel worksheet and evaluated for analysis. the analysis was performed by SPSS version 29

### Result:-

Out of 201 participants majority of them being belong to 19 -25 years of age group. The following are the percentage of students who took part in the survey. IBDS (8.0%), II BDS(4.5%), III BDS(12.4%), IV BDS(31.3%), Interns (43.8%). The response rate were 42.3% males and 57.7% females. On comparison interns have more knowledge followed by IV year students, followed by III year students, followed by I year students, followed by II year students

#### Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Age	201	19	25	22.89	1.254
Valid N (listwise)	201				

#### Gender

		Frequency	Valid Percent	Cumulative Percent
Valid	1	85	42.3	42.3
	2	116	57.7	100.0
	Total	201	100.0	

**Q1  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q1	1	Count	4	1	9	18	32	64
			%ofTotal	4.7%	1.2%	10.6%	21.2%	37.6%	75.3%
		3	Count	2	2	2	7	2	15
			%ofTotal	2.4%	2.4%	2.4%	8.2%	2.4%	17.6%
	4	Count	3	1	0	0	2	6	
		%ofTotal	3.5%	1.2%	0.0%	0.0%	2.4%	7.1%	
	Total		Count	9	4	11	25	36	85
			%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q1	1	Count	5	4	5	30	45	89
			%ofTotal	4.3%	3.4%	4.3%	25.9%	38.8%	76.7%
		3	Count	2	1	9	8	5	25
			%ofTotal	1.7%	0.9%	7.8%	6.9%	4.3%	21.6%
	4	Count	0	0	0	0	2	2	
		%ofTotal	0.0%	0.0%	0.0%	0.0%	1.7%	1.7%	
	Total		Count	7	5	14	38	52	116
			%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%
Total	Q1	1	Count	9	5	14	48	77	153
			%ofTotal	4.5%	2.5%	7.0%	23.9%	38.3%	76.1%
		3	Count	4	3	11	15	7	40
			%ofTotal	2.0%	1.5%	5.5%	7.5%	3.5%	19.9%
	4	Count	3	1	0	0	4	8	
		%ofTotal	1.5%	0.5%	0.0%	0.0%	2.0%	4.0%	
	Total		Count	16	9	25	63	88	201
			%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.003

**Q2  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q2	1	Count	1	1	1	3	4	10
			%ofTotal	1.2%	1.2%	1.2%	3.5%	4.7%	11.8%
		2	Count	2	2	2	9	5	20
			%ofTotal	2.4%	2.4%	2.4%	10.6%	5.9%	23.5%
		3	Count	2	0	0	0	2	4
			%ofTotal	2.4%	0.0%	0.0%	0.0%	2.4%	4.7%
		4	Count	4	1	8	13	25	51
			%ofTotal	4.7%	1.2%	9.4%	15.3%	29.4%	60.0%
	Total		Count	9	4	11	25	36	85
			%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q2	1	Count	0	4	1	3	2	10
			%ofTotal	0.0%	3.4%	0.9%	2.6%	1.7%	8.6%
		2	Count	1	0	8	8	3	20
			%ofTotal	0.9%	0.0%	6.9%	6.9%	2.6%	17.2%
		3	Count	0	1	2	4	3	10
			%ofTotal	0.0%	0.9%	1.7%	3.4%	2.6%	8.6%
		4	Count	6	0	3	23	44	76
			%ofTotal	5.2%	0.0%	2.6%	19.8%	37.9%	65.5%
	Total		Count	7	5	14	38	52	116
			%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%

Total	Q2	1	Count	1	5	2	6	6	20
			%ofTotal	0.5%	2.5%	1.0%	3.0%	3.0%	10.0%
		2	Count	3	2	10	17	8	40
			%ofTotal	1.5%	1.0%	5.0%	8.5%	4.0%	19.9%
	3	Count	2	1	2	4	5	14	
		%ofTotal	1.0%	0.5%	1.0%	2.0%	2.5%	7.0%	
	4	Count	10	1	11	36	69	127	
		%ofTotal	5.0%	0.5%	5.5%	17.9%	34.3%	63.2%	
	Total		Count	16	9	25	63	88	201
			%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.232

**Q3  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q3	1	Count	2	1	6	14	21	44
			%ofTotal	2.4%	1.2%	7.1%	16.5%	24.7%	51.8%
		2	Count	1	1	4	4	3	13
			%ofTotal	1.2%	1.2%	4.7%	4.7%	3.5%	15.3%
		3	Count	4	2	1	5	7	19
			%ofTotal	4.7%	2.4%	1.2%	5.9%	8.2%	22.4%
		4	Count	2	0	0	2	5	9
			%ofTotal	2.4%	0.0%	0.0%	2.4%	5.9%	10.6%
	Total		Count	9	4	11	25	36	85
			%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q3	1	Count	4	3	5	19	31	62
			%ofTotal	3.4%	2.6%	4.3%	16.4%	26.7%	53.4%
		2	Count	0	2	1	6	7	16
			%ofTotal	0.0%	1.7%	0.9%	5.2%	6.0%	13.8%
		3	Count	2	0	8	9	6	25
			%ofTotal	1.7%	0.0%	6.9%	7.8%	5.2%	21.6%
		4	Count	1	0	0	4	8	13
			%ofTotal	0.9%	0.0%	0.0%	3.4%	6.9%	11.2%
	Total		Count	7	5	14	38	52	116
			%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%
Total	Q3	1	Count	6	4	11	33	52	106
			%ofTotal	3.0%	2.0%	5.5%	16.4%	25.9%	52.7%
		2	Count	1	3	5	10	10	29
			%ofTotal	0.5%	1.5%	2.5%	5.0%	5.0%	14.4%
		3	Count	6	2	9	14	13	44
			%ofTotal	3.0%	1.0%	4.5%	7.0%	6.5%	21.9%
		4	Count	3	0	0	6	13	22
			%ofTotal	1.5%	0.0%	0.0%	3.0%	6.5%	10.9%
	Total		Count	16	9	25	63	88	201
			%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.251

**Q4  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q4	1	Count	2	1	5	17	30	55

		2	%ofTotal	2.4%	1.2%	5.9%	20.0%	35.3%	64.7%		
			Count	4	3	1	2	3	13		
		3	%ofTotal	4.7%	3.5%	1.2%	2.4%	3.5%	15.3%		
			Count	3	0	5	2	2	12		
		4	%ofTotal	3.5%	0.0%	5.9%	2.4%	2.4%	14.1%		
			Count	0	0	0	4	1	5		
		Total	%ofTotal	0.0%	0.0%	0.0%	4.7%	1.2%	5.9%		
			Count	9	4	11	25	36	85		
		2	Q4	1	%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
					Count	9	4	11	25	36	85
1	Q4	1	Count	4	2	6	27	39	78		
			%ofTotal	3.4%	1.7%	5.2%	23.3%	33.6%	67.2%		
2	Q4	2	Count	1	0	4	1	2	8		
			%ofTotal	0.9%	0.0%	3.4%	0.9%	1.7%	6.9%		
3	Q4	3	Count	2	1	3	7	9	22		
			%ofTotal	1.7%	0.9%	2.6%	6.0%	7.8%	19.0%		
4	Q4	4	Count	0	2	1	3	2	8		
			%ofTotal	0.0%	1.7%	0.9%	2.6%	1.7%	6.9%		
Total	Q4	Total	Count	7	5	14	38	52	116		
			%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%		
Total	Q4	1	Count	6	3	11	44	69	133		
			%ofTotal	3.0%	1.5%	5.5%	21.9%	34.3%	66.2%		
		2	Count	5	3	5	3	5	21		
			%ofTotal	2.5%	1.5%	2.5%	1.5%	2.5%	10.4%		
		3	Count	5	1	8	9	11	34		
			%ofTotal	2.5%	0.5%	4.0%	4.5%	5.5%	16.9%		
		4	Count	0	2	1	7	3	13		
			%ofTotal	0.0%	1.0%	0.5%	3.5%	1.5%	6.5%		
		Total	Q4	Total	Count	16	9	25	63	88	201
					%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.000

**Q5**

**Crosstab**

Gender			Yearofstudy					Total			
			1	2	3	4	5				
1	Q5	1	Count	1	2	4	0	2	9		
			%ofTotal	1.2%	2.4%	4.7%	0.0%	2.4%	10.6%		
		2	Count	5	1	2	5	7	20		
			%ofTotal	5.9%	1.2%	2.4%	5.9%	8.2%	23.5%		
		3	Count	2	0	5	16	25	48		
			%ofTotal	2.4%	0.0%	5.9%	18.8%	29.4%	56.5%		
		4	Count	1	1	0	4	2	8		
			%ofTotal	1.2%	1.2%	0.0%	4.7%	2.4%	9.4%		
		Total	Q5	Total	Count	9	4	11	25	36	85
					%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q5	1	Count	2	0	4	2	7	15		
			%ofTotal	1.7%	0.0%	3.4%	1.7%	6.0%	12.9%		
		2	Count	3	1	1	8	17	30		
			%ofTotal	2.6%	0.9%	0.9%	6.9%	14.7%	25.9%		

	3	Count	1	2	6	23	23	55		
		%ofTotal	0.9%	1.7%	5.2%	19.8%	19.8%	47.4%		
		4	Count	1	2	3	5	5	16	
			%ofTotal	0.9%	1.7%	2.6%	4.3%	4.3%	13.8%	
	Total	Count	7	5	14	38	52	116		
		%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%		
	Total	Q5	1	Count	3	2	8	2	9	24
				%ofTotal	1.5%	1.0%	4.0%	1.0%	4.5%	11.9%
2		Count	8	2	3	13	24	50		
		%ofTotal	4.0%	1.0%	1.5%	6.5%	11.9%	24.9%		
3		Count	3	2	11	39	48	103		
		%ofTotal	1.5%	1.0%	5.5%	19.4%	23.9%	51.2%		
4		Count	2	3	3	9	7	24		
		%ofTotal	1.0%	1.5%	1.5%	4.5%	3.5%	11.9%		
Total		Count	16	9	25	63	88	201		
		%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%		

PVALUE=0.003

**Q6****Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q6	1	Count	3	1	3	7	5	19
			%ofTotal	3.7%	1.2%	3.7%	8.5%	6.1%	23.2%
		2	Count	3	1	6	11	21	42
			%ofTotal	3.7%	1.2%	7.3%	13.4%	25.6%	51.2%
	3	Count	2	2	1	2	4	11	
		%ofTotal	2.4%	2.4%	1.2%	2.4%	4.9%	13.4%	
	4	Count	0	0	1	4	5	10	
		%ofTotal	0.0%	0.0%	1.2%	4.9%	6.1%	12.2%	
Total	Count	8	4	11	24	35	82		
	%ofTotal	9.8%	4.9%	13.4%	29.3%	42.7%	100.0%		
2	Q6	1	Count	2	0	2	12	19	35
			%ofTotal	1.7%	0.0%	1.7%	10.3%	16.4%	30.2%
		2	Count	3	1	8	20	20	52
			%ofTotal	2.6%	0.9%	6.9%	17.2%	17.2%	44.8%
	3	Count	1	1	0	1	8	11	
		%ofTotal	0.9%	0.9%	0.0%	0.9%	6.9%	9.5%	
	4	Count	1	3	4	5	5	18	
		%ofTotal	0.9%	2.6%	3.4%	4.3%	4.3%	15.5%	
	Total	Count	7	5	14	38	52	116	
		%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%	
Total	Q6	1	Count	5	1	5	19	24	54
			%ofTotal	2.5%	0.5%	2.5%	9.6%	12.1%	27.3%
		2	Count	6	2	14	31	41	94
			%ofTotal	3.0%	1.0%	7.1%	15.7%	20.7%	47.5%
	3	Count	3	3	1	3	12	22	
		%ofTotal	1.5%	1.5%	0.5%	1.5%	6.1%	11.1%	
	4	Count	1	3	5	9	10	28	

		%ofTotal	0.5%	1.5%	2.5%	4.5%	5.1%	14.1%
	Total	Count	15	9	25	62	87	198
		%ofTotal	7.6%	4.5%	12.6%	31.3%	43.9%	100.0%

PVALUE=0.490

**Q7  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q7	1	Count	1	2	5	6	7	21
			%ofTotal	1.2%	2.4%	5.9%	7.1%	8.2%	24.7%
		2	Count	2	2	5	17	25	51
			%ofTotal	2.4%	2.4%	5.9%	20.0%	29.4%	60.0%
		3	Count	6	0	1	2	4	13
			%ofTotal	7.1%	0.0%	1.2%	2.4%	4.7%	15.3%
Total		Count	9	4	11	25	36	85	
		%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%	
2	Q7	1	Count	0	1	3	13	17	34
			%ofTotal	0.0%	0.9%	2.6%	11.2%	14.7%	29.3%
		2	Count	4	0	9	20	25	58
			%ofTotal	3.4%	0.0%	7.8%	17.2%	21.6%	50.0%
		3	Count	3	4	2	5	10	24
			%ofTotal	2.6%	3.4%	1.7%	4.3%	8.6%	20.7%
Total		Count	7	5	14	38	52	116	
		%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%	
Total	Q7	1	Count	1	3	8	19	24	55
			%ofTotal	0.5%	1.5%	4.0%	9.5%	11.9%	27.4%
		2	Count	6	2	14	37	50	109
			%ofTotal	3.0%	1.0%	7.0%	18.4%	24.9%	54.2%
		3	Count	9	4	3	7	14	37
			%ofTotal	4.5%	2.0%	1.5%	3.5%	7.0%	18.4%
Total		Count	16	9	25	63	88	201	
		%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%	

PVALUE=0.001

**Q8  
Crosstab**

Gender			Yearofstudy					Total		
			1	2	3	4	5			
1	Q8	1	Count	2	1	6	11	21	41	
			%ofTotal	2.4%	1.2%	7.1%	12.9%	24.7%	48.2%	
		2	Count	2	2	3	6	4	17	
			%ofTotal	2.4%	2.4%	3.5%	7.1%	4.7%	20.0%	
		3	Count	4	1	0	4	7	16	
			%ofTotal	4.7%	1.2%	0.0%	4.7%	8.2%	18.8%	
		4	Count	1	0	2	4	4	11	
			%ofTotal	1.2%	0.0%	2.4%	4.7%	4.7%	12.9%	
		Total		Count	9	4	11	25	36	85
				%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q8	1	Count	2	2	4	15	27	50	

		2	%ofTotal	1.7%	1.7%	3.4%	12.9%	23.3%	43.1%
			Count	1	0	1	3	9	14
		3	%ofTotal	0.9%	0.0%	0.9%	2.6%	7.8%	12.1%
			Count	2	1	5	14	13	35
		4	%ofTotal	1.7%	0.9%	4.3%	12.1%	11.2%	30.2%
			Count	2	2	4	6	3	17
		Total	%ofTotal	1.7%	1.7%	3.4%	5.2%	2.6%	14.7%
			Count	7	5	14	38	52	116
		Total	%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%
			Count	7	5	14	38	52	116
Total	Q8	1	Count	4	3	10	26	48	91
			%ofTotal	2.0%	1.5%	5.0%	12.9%	23.9%	45.3%
		2	Count	3	2	4	9	13	31
			%ofTotal	1.5%	1.0%	2.0%	4.5%	6.5%	15.4%
		3	Count	6	2	5	18	20	51
			%ofTotal	3.0%	1.0%	2.5%	9.0%	10.0%	25.4%
	4	Count	3	2	6	10	7	28	
		%ofTotal	1.5%	1.0%	3.0%	5.0%	3.5%	13.9%	
	Total	Count	16	9	25	63	88	201	
		%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%	

PVALUE=0.381

**Q9**

**Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q9	1	Count	2	1	0	0	1	4
			%ofTotal	2.4%	1.2%	0.0%	0.0%	1.2%	4.7%
		2	Count	2	1	2	4	6	15
			%ofTotal	2.4%	1.2%	2.4%	4.7%	7.1%	17.6%
		3	Count	4	2	6	20	26	58
			%ofTotal	4.7%	2.4%	7.1%	23.5%	30.6%	68.2%
	4	Count	1	0	3	1	3	8	
		%ofTotal	1.2%	0.0%	3.5%	1.2%	3.5%	9.4%	
	Total	Count	9	4	11	25	36	85	
		%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%	
2	Q9	1	Count	2	0	0	0	6	8
			%ofTotal	1.7%	0.0%	0.0%	0.0%	5.2%	6.9%
		2	Count	1	0	2	4	7	14
			%ofTotal	0.9%	0.0%	1.7%	3.4%	6.0%	12.1%
		3	Count	3	4	8	28	35	78
			%ofTotal	2.6%	3.4%	6.9%	24.1%	30.2%	67.2%
	4	Count	1	1	4	6	4	16	
		%ofTotal	0.9%	0.9%	3.4%	5.2%	3.4%	13.8%	
	Total	Count	7	5	14	38	52	116	
		%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%	
Total	Q9	1	Count	4	1	0	0	7	12
			%ofTotal	2.0%	0.5%	0.0%	0.0%	3.5%	6.0%
		2	Count	3	1	4	8	13	29
			%ofTotal	1.5%	0.5%	2.0%	4.0%	6.5%	14.4%



	3	Count	7	6	14	48	61	136
		%ofTotal	3.5%	3.0%	7.0%	23.9%	30.3%	67.7%
	4	Count	2	1	7	7	7	24
		%ofTotal	1.0%	0.5%	3.5%	3.5%	3.5%	11.9%
Total		Count	16	9	25	63	88	201
		%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.103

**Q10  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q10	1	Count	2	0	4	6	5	17
			%ofTotal	2.4%	0.0%	4.7%	7.1%	5.9%	20.0%
		2	Count	1	0	2	2	3	8
			%ofTotal	1.2%	0.0%	2.4%	2.4%	3.5%	9.4%
		3	Count	4	2	1	4	2	13
			%ofTotal	4.7%	2.4%	1.2%	4.7%	2.4%	15.3%
		4	Count	2	2	4	13	26	47
			%ofTotal	2.4%	2.4%	4.7%	15.3%	30.6%	55.3%
	Total		Count	9	4	11	25	36	85
			%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q10	1	Count	2	0	5	6	11	24
			%ofTotal	1.7%	0.0%	4.3%	5.2%	9.5%	20.7%
		2	Count	0	2	5	6	5	18
			%ofTotal	0.0%	1.7%	4.3%	5.2%	4.3%	15.5%
		3	Count	3	2	1	8	6	20
			%ofTotal	2.6%	1.7%	0.9%	6.9%	5.2%	17.2%
		4	Count	2	1	3	18	30	54
			%ofTotal	1.7%	0.9%	2.6%	15.5%	25.9%	46.6%
	Total		Count	7	5	14	38	52	116
			%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%
Total	Q10	1	Count	4	0	9	12	16	41
			%ofTotal	2.0%	0.0%	4.5%	6.0%	8.0%	20.4%
		2	Count	1	2	7	8	8	26
			%ofTotal	0.5%	1.0%	3.5%	4.0%	4.0%	12.9%
		3	Count	7	4	2	12	8	33
			%ofTotal	3.5%	2.0%	1.0%	6.0%	4.0%	16.4%
		4	Count	4	3	7	31	56	101
			%ofTotal	2.0%	1.5%	3.5%	15.4%	27.9%	50.2%
	Total		Count	16	9	25	63	88	201
			%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.074

**Q11  
Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q11	1	Count	3	2	10	15	26	56
			%ofTotal	3.5%	2.4%	11.8%	17.6%	30.6%	65.9%

		2	Count	0	0	0	6	4	10	
			%ofTotal	0.0%	0.0%	0.0%	7.1%	4.7%	11.8%	
		3	Count	4	0	0	1	1	6	
			%ofTotal	4.7%	0.0%	0.0%	1.2%	1.2%	7.1%	
		4	Count	2	2	1	3	5	13	
			%ofTotal	2.4%	2.4%	1.2%	3.5%	5.9%	15.3%	
		Total		Count	9	4	11	25	36	85
				%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q11	1	Count	2	1	10	27	30	70	
			%ofTotal	1.7%	0.9%	8.6%	23.3%	25.9%	60.3%	
		2	Count	1	1	3	6	8	19	
			%ofTotal	0.9%	0.9%	2.6%	5.2%	6.9%	16.4%	
		3	Count	1	1	0	2	5	9	
			%ofTotal	0.9%	0.9%	0.0%	1.7%	4.3%	7.8%	
		4	Count	3	2	1	3	9	18	
			%ofTotal	2.6%	1.7%	0.9%	2.6%	7.8%	15.5%	
		Total		Count	7	5	14	38	52	116
				%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%
Total	Q11	1	Count	5	3	20	42	56	126	
			%ofTotal	2.5%	1.5%	10.0%	20.9%	27.9%	62.7%	
		2	Count	1	1	3	12	12	29	
			%ofTotal	0.5%	0.5%	1.5%	6.0%	6.0%	14.4%	
		3	Count	5	1	0	3	6	15	
			%ofTotal	2.5%	0.5%	0.0%	1.5%	3.0%	7.5%	
		4	Count	5	4	2	6	14	31	
			%ofTotal	2.5%	2.0%	1.0%	3.0%	7.0%	15.4%	
		Total		Count	16	9	25	63	88	201
				%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.001

**Q12**

**Crosstab**

Gender			Yearofstudy					Total		
			1	2	3	4	5			
1	Q12	1	Count	5	3	8	13	26	55	
			%ofTotal	5.9%	3.5%	9.4%	15.3%	30.6%	64.7%	
		2	Count	2	0	1	2	2	7	
			%ofTotal	2.4%	0.0%	1.2%	2.4%	2.4%	8.2%	
		3	Count	0	0	2	6	2	10	
			%ofTotal	0.0%	0.0%	2.4%	7.1%	2.4%	11.8%	
		4	Count	2	1	0	4	6	13	
			%ofTotal	2.4%	1.2%	0.0%	4.7%	7.1%	15.3%	
		Total		Count	9	4	11	25	36	85
				%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%
2	Q12	1	Count	2	0	12	20	33	67	
			%ofTotal	1.7%	0.0%	10.3%	17.2%	28.4%	57.8%	
		2	Count	2	1	0	3	5	11	
			%ofTotal	1.7%	0.9%	0.0%	2.6%	4.3%	9.5%	
		3	Count	2	2	2	9	7	22	
			%ofTotal	2.4%	2.4%	2.4%	9.9%	7.7%	25.4%	

		4	%ofTotal	1.7%	1.7%	1.7%	7.8%	6.0%	19.0%
			Count	1	2	0	6	7	16
	Total		%ofTotal	0.9%	1.7%	0.0%	5.2%	6.0%	13.8%
			Count	7	5	14	38	52	116
Total	Q12	1	Count	7	3	20	33	59	122
			%ofTotal	3.5%	1.5%	10.0%	16.4%	29.4%	60.7%
		2	Count	4	1	1	5	7	18
			%ofTotal	2.0%	0.5%	0.5%	2.5%	3.5%	9.0%
		3	Count	2	2	4	15	9	32
			%ofTotal	1.0%	1.0%	2.0%	7.5%	4.5%	15.9%
		4	Count	3	3	0	10	13	29
			%ofTotal	1.5%	1.5%	0.0%	5.0%	6.5%	14.4%
Total		Count	16	9	25	63	88	201	
		%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%	

PVALUE=0.402

**Q13**  
**Crosstab**

Gender			Yearofstudy					Total	
			1	2	3	4	5		
1	Q13	1	Count	5	3	5	14	23	50
			%ofTotal	5.9%	3.5%	5.9%	16.5%	27.1%	58.8%
		2	Count	3	1	3	0	3	10
			%ofTotal	3.5%	1.2%	3.5%	0.0%	3.5%	11.8%
		3	Count	1	0	1	4	5	11
			%ofTotal	1.2%	0.0%	1.2%	4.7%	5.9%	12.9%
		4	Count	0	0	2	7	5	14
			%ofTotal	0.0%	0.0%	2.4%	8.2%	5.9%	16.5%
Total		Count	9	4	11	25	36	85	
		%ofTotal	10.6%	4.7%	12.9%	29.4%	42.4%	100.0%	
2	Q13	1	Count	6	2	7	24	34	73
			%ofTotal	5.2%	1.7%	6.0%	20.7%	29.3%	62.9%
		2	Count	0	0	3	2	5	10
			%ofTotal	0.0%	0.0%	2.6%	1.7%	4.3%	8.6%
		3	Count	0	0	2	5	5	12
			%ofTotal	0.0%	0.0%	1.7%	4.3%	4.3%	10.3%
		4	Count	1	3	2	7	8	21
			%ofTotal	0.9%	2.6%	1.7%	6.0%	6.9%	18.1%
Total		Count	7	5	14	38	52	116	
		%ofTotal	6.0%	4.3%	12.1%	32.8%	44.8%	100.0%	
Total	Q13	1	Count	11	5	12	38	57	123
			%ofTotal	5.5%	2.5%	6.0%	18.9%	28.4%	61.2%
		2	Count	3	1	6	2	8	20
			%ofTotal	1.5%	0.5%	3.0%	1.0%	4.0%	10.0%
		3	Count	1	0	3	9	10	23
			%ofTotal	0.5%	0.0%	1.5%	4.5%	5.0%	11.4%
		4	Count	1	3	4	14	13	35
			%ofTotal	0.5%	1.5%	2.0%	7.0%	6.5%	17.4%

	Total	Count	16	9	25	63	88	201
		%ofTotal	8.0%	4.5%	12.4%	31.3%	43.8%	100.0%

PVALUE=0.209

### Discussion:-

Anaphylaxis one of the most serious medical crises . Proper diagnosis with in time and immediate treatment can make difference between life and death . Although our understanding of antibody effector cells and medications that may contribute to Cause of the symptoms of anaphylaxis have advanced. Anaphylaxis cast doubt on our comprehension of immune system function in preserving homeostasis.It draws attention to fine line that separate beneficial immune responses from detrimental overreactions and it poses concerns about variables that can tip this line and cause severe allergic reaction.Anaphylaxis highlights the value of public health initiatives such as awareness, campaigns and emergency treatment accessibility.Reducing mortality linked to the illness requires increased efforts to identify anaphylactic signs better,improve training for medical personnel and guarantee the availability of life saving therapies . Studies have proven that spark off epinephrine can considerably lessen morbidity and mortality related to anaphylaxis.Educating sufferers and care givers on suitable use of epinephrine auto injection is similarly important .

### Conclusion:-

Based on the above study the current findings imply the dental students in khammam have enough knowledge regarding anaphylaxis therefore need to conduct more programs to bring awareness towards anaphylaxis .Enhanced public awareness and training for health care professionals are pivotal in improving response time and reducing incidence of severe outcomes associated with anaphylaxis.Preventing measures and public health implications preventing anaphylaxis entails multifaceted approach along with affected person education, allergen avoidance and vast availability of epinephrine.

### References:-

- [1] Lieberman, Phil, et al. "Epidemiology of anaphylaxis: findings of the American college of allergy, asthma and immunology epidemiology of anaphylaxis working group." *Annals of Allergy, Asthma & Immunology* 97.5 (2006): 596-602.
- [2] Brown, Simon GA. "Clinical features and severity grading of anaphylaxis." *Journal of Allergy and Clinical Immunology* 114.2 (2004): 371-376.
- [3] Worm, Margitta, Magda Babina, and Stephanie Hompes. "Causes and risk factors for anaphylaxis." *JDDG: Journal der Deutschen Dermatologischen Gesellschaft* 11.1 (2013): 44-50.
- [4] Becker, Daniel E. "Drug allergies and implications for dental practice." *Anesthesia progress* 60.4 (2013): 188-197.
- [5] Vervloet, D., et al. "Allergic emergencies seen in surgical suites." *Clinical reviews in allergy & immunology* 17.4 (1999): 459.
- [6] Gibbs, N. M., et al. "Survival from perioperative anaphylaxis in Western Australia 2000–2009." *British journal of anaesthesia* 111.4 (2013): 589-593.
- [7] Dewachter P, Mouton-Faivre C and Emala CW. Anaphylaxis and anesthesia: controversies and new insights. *Anesthesiology*. 2009; 111:1141-50.
- [8] Hosoki, Maki, et al. "Assessment of allergic hypersensitivity to dental materials." *Bio-medical materials and engineering* 19.1 (2009): 53-6.