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RESEARCH ARTICLE

A STUDY TO ASSESS KNOWLEDGE ON TUBERCULOSIS SPREAD IN PATIENTS ATTENDING OUTPATIENT DEPARTMENT IN A TERTIARY CARE HOSPITAL IN NALGONDA REGION

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Abstract

Introduction: India contributes one fourth of total Tuberculosis burden in the world .Poor awareness among public and negligence towards its prevention and control are cause of this widespread.

Methodology: 300 people were selected among all the patients attending pulmonary medicine department after considering inclusion and exclusion criteria.

Results: There was poor knowledge about the cause, spread of tuberculosis and disposal of sputum .Association between knowledge and age and education was observed.

Conclusion: By increasing health education and educational level the awareness about the spread and prevention can be achieved.

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Introduction:-

Tuberculosis (TB) is an ancient infection that has plagued humans throughout and appears to be as old as humanity itself. Even now it is a significant and major public health emergency worldwide and one of the top ten causes of death. Globally ,10.4 million new TB cases and 1.7 million TB-related deaths are estimated to occur each year .India has the largest number of tuberculosis patients and contributes to one fourth of total TB burden in the world . According to the global TB report of TB burden India ranks 1st followed by Indonesia and China ¹. It is estimated that about 40% of the Indian population is infected with TB bacteria majority whom have latent TB .Knowledge about TB is a precursor to effective TB control .Gaps in knowledge however ,surround transmission ,prevention and the relationship between HIV/AIDS and TB. Poor understanding which is augmented by false beliefs delays health seeking behaviour and further compromises the health of patients and presents ample time for the spread of infection to healthy population^{2,3}.Negligence of the patients and health workers towards the prevention and control of the disease leads to its widespread^{4,5}. Many organizations and programs are conducted and funded by government of India with a goal to eradicate TB but have failed to educate people. Hence , the study was done to access the knowledge of the patients coming with respiratory problem so that health education can be increased to bring awareness among patients and prevent the disease.

Methodology:-

The study is a cross sectional study conducted at an outpatient department in a tertiary care hospital in Nalgonda . This was conducted among all the patients attending the department of pulmonary medicine who were willing to participate in the study . There were 200 people selected based on the inclusion and exclusion criteria to participate in the study.

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Inclusion criteria:

All those more than 18 years of age attending the pulmonology outpatient department and willing to participate in the study

Exclusion criteria:

Age less than 18 years, those not willing to participate in the study, serious and hemodynamically unstable patients were excluded. Patients with on going tubercular therapy and their family members were excluded to reduce bias.

The questionnaire consisted of 15 questions about the knowledge of tuberculosis and the spread of the disease and those who answered correctly for 7 questions were considered to have good knowledge and less than that were considered to have poor knowledge.

The knowledge about the tuberculosis was accessed among the participants through a pretested semi-structured questionnaire. The study was conducted from august 2018 to December 2019.

Materials:-

The materials used in this study included a questionnaire which consisted of 15 questions about the knowledge of tuberculosis and the spread of the disease .

Results:-

Out of 300 participants ,192 (64%) were from rural area and 108(36%) were from urban area.165 (55%) were males and 135 (45%) were females. Table 1 shows the education level and age wise distribution of the patients .Occupation analysis showed 138(46%) were farmers,48 (16%) were workers ,9 (3%) were teachers, majority of females 96(32%) were home makers .Source of knowledge was seen and majority 195 (65%) found about TB through television,60 (20%) through doctors , 30(10%) through health care workers and 15 (5%) through neighbours.

Table 1:- age wise distribution and education	onal status of study participants.
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Age group	number	%	Education	number	%
<29	30	10	Illiterate	105	35
30-39	60	20	Primary	60	20
			Education		
40-49	120	40	Secondary education	60	20
50-59	60	20	12 th pass	45	15
>60	30	10	Graduate	30	10
Total	300	100	Total	300	100

234(78%) knew that the disease is contagious and spread from person to person and 66(22%) knew that it spread through coughing /sputum of infected person. Figure 1 shows knowledge of cause and table 2 shows knowledge about sputum disposal.

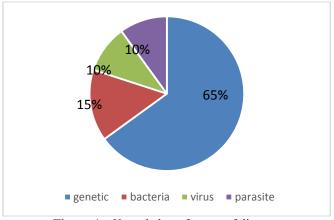


Figure 1:- Knowledge of cause of disease.

Table 2:- Knowledge on sputum disposa	Table 2:	 Knowledge 	e on sputum	disposal
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Method	Number	0/0
Chemical treatment	12	4
Inceneration	18	6
Burial	30	10
Anywhere	900	30
Throwing with general waste	150	50
Total	300	100

As age increased knowledge was poor .There was no association between gender and knowledge and the level of knowledge was better in the literate group than illiterate .Table 3,4,5.

Table 3:- Association between age and knowledge score.

Knowledge score	good	poor
Age in years		
<29	11	19
30-39	26	34
40-49	30	90
50-59	20	40
>60	6	24
Total	93	207

P value = 0.05 Chi value = 8.58

Table 4:- Association between sex and knowledge score.

Knowledge score	Good	Poor
Males	55	110
Females	40	95

P value=0.49 Chi value=0.47

Table 5:- Association between education and knowledge score.

Knowledge score education	Good	Poor
Graduate	20	10
12 th pass	15	30
Secondary	20	40
Primary	20	40
lliterate	25	80

P value=0.0006 Chi value=19.28

Discussion:-

In this study majority were males, similar findings were seen in a study by Deepu Changappa Cheriamane et al ⁶. In a study by A. O. Hassan et al ⁷, had higher female respondents than males who were 53%. The study by A. O. Hassan et al ⁷, saw correlation between gender and knowledge where males had greater knowledge but in this study no association was found. The study by Deepu Changappa Cheriamane et al ⁶ had similar findings with the current study in age wise distribution. The study had 62% illiterates but the current study had only 35% illiterates. In the study by Deepu Changappa Cheriamane 6 et al ⁶ had 18% who knew correct sputum disposal method in the current study the percentage was 28.5% which is higher. In a study by A. O. Hassan et al ⁷, they found knowledge about tb to be 26.5% in our study it was found to be 22% still lower than the study. Similar lower numbers were found in a study by Tobin et al ⁸. The study by Pieter Jacob Haasnoot, et al ⁹, had 67% who had knowledge about tuberculosis. They found a positive correlation between education and knowledge, similar to current study. The study by Pieter Jacob Haasnoot, et al ⁹, there were 32% people who thought tuberculosis was the punishment from god and in the current study there were 65% participants who thought it was genetic. The study by A. O. Hassan et al ⁷, found association between education and knowledge similar to our current study.

Conclusion:-

In this study most of them had poor knowledge of the disease spread and majority assumed the cause to be familial. Major source of knowledge was through television. Only few knew how to dispose sputum correctly. There was association between knowledge score and age and education. Literature indicates that health education programs for TB are well received and they improve TB control 10,11,12. A high level of community awareness about the spread of TB, its prevention and positive perception towards TB and its management is crucial for the success of any control strategy. So, by increasing health education and utilizing television media to cover large population regarding awareness on the disease spread and prevention would be beneficial 13.

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