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DENTISTS' KNOWLEDGE, ATTITUDES AND PRACTICES TOWARD PATIENTS WITH EPILEPSY IN CHENNAI CITY - A Questionnaire Survey

Type of Article: Knowledge, attitude and practice survey.

Running title: Epilepsy patients

Sai Chaitanya Raj.B

CRI

Saveetha Dental College, Saveetha University, Chennai, India

Dr Dinesh Prabu

Department of Oral and Maxillofacial Surgery Saveetha Dental College, Saveetha University, Chennai, India

Corresponding Author Dr Dinesh Prabu

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Department of Oral and Maxillofacial Surgery Saveetha Dental College, Saveetha University, Chennai 162, Poonamallee High Road, Chennai – 600077 Tamil Nadu, India. Abstract word count: 109



Aim: The aim of this study was to assess dentists' knowledge about handling epilepsy patients on the dental chair

Material and Methods:

A cross-sectional study was conducted in December 2016 using a self-structured questionnaire to collect information from Dentists in chennai

Results: Knowledge, attitude and practice of Dentists is quite common among the Dentists in Chennai.

Conclusion: Based on the results of this survey, authors concluded that a large number of dentists were confident to treat a person with epilepsy and they assumed they have responsibility to treat this population. None of the practice-related questions showed any significant difference in relation to different ages, gender.

Keywords: epilepsy, anti-convulsants, dentists

Introduction

Epilepsy is a disorder of the brain that is characterized generates seizures. The worldwide prevalence is found to be four to ten per thousand population. The prevalence of epilepsy in is more in developing. Rate of epilepsy in India is 5.59 per 1000 population with no statistical differece between men and women or urban and rural population.

Epilepsy is considered as a social as well and psychological stigma in all countries. People with epilepsy are still socially put down by negative attitude of the public and defensive behavior. The negative attitude of the public have an effect on education, marriage, employment and other social activities.. Gingival enlargement caused due to anticonvulsant drugs is a common condition among people with epilepsy and in severe cases interferes with mastication requiring dental care. With this background, this study has been designed to assess the knowledge, attitudes and practices about epilepsy among a group of dentists in Chennai, India.

Aim

Aim: The aim of this study was to assess dentists' knowledge about handling epilepsy patients on the dental chair

Objectives

To gather the knowledge and attitude of dentists' knowledge about handling epilepsy patients on the dental chair

Material and methods

A. Study design:

- i. Place of study- Chennai.
- ii. Source of Data- Private Dentists in Chennai.
- iii. Sample Description- Private Dentists in Chennai
- iv. Selection Criteria-
- 1. Inclusion Criteria:
- · Denists having private practices in Chennai
- Qualification BDS/MDS
- 2. Exclusion Criteria:
- Students who are unwilling to participate in the study.
- Trainees
- B. Material/Equipment for the study:
- A self-made questionnaire

C. Methodology:

This will be a cross-sectional questionnaire study. A set of 15 questions was given to private dentists in Chennai. The Dentists were assessed on the basis of their knowledge (9 questions) about vaccines (2 questions) available for Epilepsy the precautionary measures they will take for such patients (4 questions).

Question	Response	No of
		respondents
Epilepsy occurs in	One in every 1000 people	106 (48.8)
	One in every 100 people	27 (12.4)
	One in every 10,000 people	64 (29.5)
	One in every 50,000 people	16 (7.4)
	One in every 1,000,000 people	4 (1.9)
Causes of epilepsy	Accidents	42 (19.4)
	Inherited disease	35 (16.1)
	Insanity or mental illnesses	34 (15.7)
	Brain tumors	45 (20.8)
	Birth defects	39 (17.9)
	Stroke	16 (7.4)
	All of the above can cause epilepsy	118 (54.3)
	Don't know	13 (5.9)
An epileptic attack is	A convulsion or shaking	99 (45.6)
	A loss of consciousness	25 (11.5)
	An episode of behavioral change	25 (11.5)
	A period of memory disturbance	9 (4.2)
	Any of the above Don't know	108 (49.8)
Drug therapy for epilepsy	It is seldom effective in controlling seizures	0 (0.0) 84 (38.7)
Drug merapy for ephepsy	It is setdom effective in controlling seizures It is best given as two or more drugs that work	82 (37.8)
	It has advanced significantly over the past 10 years	88 (40.6)
	It occasionally produces malformations in babies	29 (13.7)
	It can be stopped abruptly after seizures are	9 (4.1)
	All of the above	29 (13.4)
	Don't know	32 (14.7)
In case of epileptic seizures in the dental	Put something in the patient's mouth to prevent	157 (72.3)
	with his/her tongue	` /
	Hold the patient tight so the patient stops shaking	44 (20.3)
	Put the patient in the Trendelenburg position	48 (22.1)
	Administer oxygen	43 (19.9)
	Call medical help immediately	31 (14.3)
	Time it, and if it exceeds 3 min, call medical help	51 (23.5)
	Move the patient to an area where he/she cannot	116 (53.5)
	while having the seizure	
Would you object to having any of your	Yes	34 (15.7)

children associate with persons who had sometimes epileptic seizures in school or in a playground

Would you object to a person with epilepsy marrying a close relative of yours (brothers, sister or child)?

No 183 (84.3)

Yes 84 (38.7)

No 133 (61.3)

Do you think persons with epilepsy should have children? Yes 188 (86.6)

No 29 (13.4)

Do you think that in general, persons with epilepsy should be employed at the same jobs as other people?

Have you treated patients with epilepsy? Yes 61 (28.1)

Yes 160 (73.7)

No 57 (2

Discussion

Knowledge, Attitude and Practice of post graduates is the majority of the respondents correctly identified the causes of epilepsy but a small percentage of them still connected it to mental illness/sanity. This could be connected to the fact that dentists are less exposed to patients with epilepsy and/or mostly recommend a medical opinion from medical doctors before proceeding with the treatment

Conclusion

The current study will help us in understanding the knowledge, attitude and practice about epileptic patients among dentist in chennai. In case of epileptic seizures, it has been recommended to time the seizures, and if it exceeds 3 min, call medical help and move the patient to a hospital. Social acceptance of patients with epilepsy was relatively high in this group of dentists. Around 82% of this population would not object to their children being closely associated with an epileptic patient. It is therefore concluded that the knowledge about epilepsy id widespread whereas, viewing it as a social stigma should be over come by the dentists and public alike.

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