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Incidence of Wax Accumulation in Insert Headphone Users

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Abstract:- The headphone users ear canal is examined by otoscope. The headphone use cause wax accumulation in ear canal bilaterally. The headphone addicts are college student, office worker's. The initial treatment is removal of wax.

I. INTRODUCTION

The use of head phone has been thought to create wax accumulation in ear canal. Not commonly the head phone user also express concern regarding the potential for this device to cause noise induced hearing loss. However, documented studies on the side effects of prolonged use of head phone are rarely described. Among the prolonged user of head phones are students and office workers. Insert head phone in addition are made up of a rubber coat. This rubber coating of the insert headphone is in constant contact with the external ear cavity. This constant contact of the headphones with the ear over long durations can cause ear problems such as wax accumulation.

Wax accumulation is a common condition affecting 3-6 percentage of the population. The patients often present initially to primary care. They should be referred to an ENT specialist, if the symptoms persist despite the initial treatment with removal of wax.

II. MATERIALS AND METHODOLOGY

A research was conducted in a private university in South India over a period of 3 months, from January 2019 to March 2019. The sampling frame comprised of patients who were diagnosed with defective hearing due to wax accumulation in the ENT Out Patient department of the college. The sample size taken was 60 patients. The patients were diagnosed to have decreased hearing due to wax accumulation on the basis of their clinical symptoms and by clinical examination.

The patients were then asked a set of questions on the usage on insert headphones after obtaining written informed consent from them. Ethical clearance was obtained from the Institutional Ethics Committee of Saveetha Medical College and Hospital, Chennai. Data were entered in Microsoft Excel 2013 and statistical analysis was done.

III. RESULT

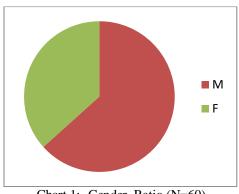


Chart 1:- Gender Ratio (N=60)

Pie Chart 1 shows the ratio of males and females that were a part of the study. Out of the total 60 patients that were questioned, 67% of them were MALE (40 Patients) and the remaining 33% of the patients were Female (20 Patients).

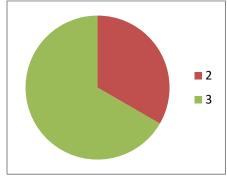
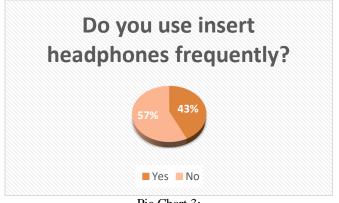


Chart 2:- Do You Use Insert Headphones:

The patients who stated that they have used insert headphones were then asked whether they use insert headphones frequently. Out of the 60 patients who were questioned, 67% of the patients(40 Patients) stated that they do use insert headphones frequently while 33% of the patients(20 Patients) stated that they do not use insert headphones frequently.

For those who use insert headphones, do you have a habit of using insert headphones frequently? (n=40)

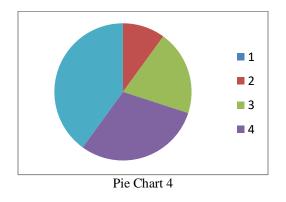


Pie Chart 3:

The patients who stated that they have used insert headphones were then asked whether they use insert headphones frequently. Out of the 40 patients who were questioned, 43% of the patients(17 Patients) stated that they do use insert headphones frequently while 57% of the patients(23Patients) stated that they do not use insert headphones frequently. 1:

Question 3 – How often do you use insert headphones?

- 1: Once a week.
- 2: Twice a week.
- 3: Thrice a week.
- 4: More than 3 times in a week.



How often do you use insert headphones?

The patients who stated that they use insert headphones frequently were then asked how often they use insert headphones. Out of the 17 patients who were questioned, 38.9% of the patients(6 patients) stated that they used insert headphones atleast once a week, 16.7% of the patients(3 patients) stated that they used insert headphones atleast twice a week, 33.3% of the patients (6 patients) stated that they used insert headphones atleast 3 times a week and 11.1% of the patients(2 patients) stated that they used insert headphones more than 3 times a week.

IV. CONCLUSION

Out of 60 patient (40 males and 20 females) 40 patient use insert headphones and out of this 40(17 patient) use headphones frequently.

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