Original Research Article

An observational study to determine the effectiveness of treatment of dental caries in management of non-specific recurrent/chronic pharyngitis

Jagadeeswaran V. U.†, Jagadeesh Marthandam2, Sathish Kumar3

1Department of ENT, 7 Air Force Hospital, Kanpur, Uttar Pradesh India
2Department of ENT, Apollo Clinic, Velachery, Chennai, Tamil Nadu, India
3Department of Dental surgery, 8 Air Force Dental College, Kanpur, Uttar Pradesh India

Received: 23 June 2020
Revised: 19 September 2020
Accepted: 24 September 2020

*Correspondence:
Dr. Jagadeeswaran V. U.,
E-mail: drvujagadeeswaran@gmail.com

ABSTRACT

Background: Chronic pharyngitis is a common inflammatory condition of the pharynx, which has long duration and various etiological factors attributed to it. The most common local constant source of infection causing chronic pharyngitis are rhinitis, sinusitis and laryngopharyngeal reflux. The management for the above etiology is mostly symptomatic. In majority of the cases in spite of symptomatic treatment there is no relief for the patient and the non-specific conditions have to be considered in those cases. One such non-specific condition is chronic dental caries due to poor oral dental hygiene.

Methods: A prospective observational study was carried out in the ENT and dental department for over a period of one year at our tertiary care hospital after obtaining institutional ethical committee clearance.

Results: 50 out of the 67 patients who had chronic dental caries and who were on chronic medication for non-specific chronic pharyngitis benefitted from dental treatment.

Conclusions: Patients with long duration medication for symptomatic treatment of non-specific chronic pharyngitis, if presented along with chronic dental carries, it’s recommended to do initial treatment for dental caries management. Awareness has to be created among all individuals about oral dental hygiene.

Keywords: Chronic dental caries, Chronic pharyngitis, Oral dental hygiene

INTRODUCTION

Chronic pharyngitis is a chronic inflammatory condition of pharynx greater than three weeks duration. Various etiological factors are attributed to it and are most commonly due to a local constant source of infection like rhinitis, sinusitis, and laryngopharyngeal reflux leading to inflammation over the posterior pharyngeal wall.1 Recurrent or non-specific chronic pharyngitis is a condition without any definite etiology.2 This results in hypertrophy of mucosa, seromucinous gland, sub epithelial lymphoid follicles and also the muscular coat of pharynx. Various drugs and therapies like mandl’s paint, throat gargles, nasal spray and anxiolytics have been used over the decades.2 Some recent studies show use of honey and clinical effect of acupuncture at eight confluent points as treatment for chronic pharyngitis.3,4 In majority of the cases in spite of symptomatic treatment there was no permanent relief.5 The individualized treatment for rhinitis, sinusitis and laryngopharyngeal reflux was followed in clinical practice in treatment for specific chronic pharyngitis.6 In our study majority of our patients had chronic dental caries due to poor oral dental hygiene. They presented with symptoms of non-specific chronic pharyngitis.
Since dental caries is a constant local source of infection, dental caries management can provide permanent symptomatic relief to the patients. Since there is no study so far which shows the association between chronic dental caries and chronic pharyngitis, we decided to study the effectiveness of treatment of dental caries in the management of non-specific recurrent/chronic pharyngitis. Moreover, it would help in reducing the cost of treatment by reducing the routine symptomatic treatment for specific type of chronic pharyngitis and also to create awareness for oral dental hygiene not only for all individuals but also for all medical practitioners.

METHODS

This prospective observational study was carried out in the ENT and dental department for over a period of one year at our tertiary care hospital from January 2019 to December 2019 after obtaining institutional ethical committee clearance.

Inclusion criterion

Patients who were on symptomatic treatment for chronic pharyngitis greater than 3 months and also presented with chronic dental caries.

These patients were referred to dental OPD for the treatment. Treatment of dental caries consisted of procedures like dental filling, dental extraction, and root canal treatment. After the dental treatment patients were followed up for a period of one month and following that patients were asked to fill a questionnaire for improvement of symptoms of chronic pharyngitis and documented.

Statistical analysis was done using chi-square test to study the association between dental procedure and improvement of chronic pharyngitis.

RESULTS

Out of the 67 patients included in the study, 50 patients who underwent dental caries treatment showed improvement with symptoms of chronic pharyngitis (Figure 1). All the patients were above 18 years of age with 30 male and 37 female patients (Table 1).

<table>
<thead>
<tr>
<th>Age</th>
<th>Above 18 years (mean age: 30 years)</th>
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<tbody>
<tr>
<td>Male</td>
<td>30 (44.77%)</td>
</tr>
<tr>
<td>Female</td>
<td>37 (55.22%)</td>
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</tbody>
</table>

Table 1: Age and sex distribution.
hence the treatment for the chronic pharyngitis was withdrawn. Since there is no study so far to shows the association between chronic dental caries and chronic pharyngitis. The result in this study is statistically significant stating that there is improvement in non-specific chronic pharyngitis after dental treatment. The study also shows the importance of practice of oral health care hygiene. So in order to promote the health education for oral health hygiene, motivational interviewing is to be practiced at all primary health centers (PHCs) by utilization of Accredited Social Health Activist (ASHA).

CONCLUSION

Treatment of dental caries plays a significant role in the management of non-specific recurrent/chronic pharyngitis. However other causes of chronic pharyngitis should be ruled out. Proper health education for oral health hygiene should be practiced at all primary health care centers (PHCs).

Funding: No funding sources
Conflict of interest: None declared
Ethical approval: The study was approved by the Institutional Ethics Committee

REFERENCES
