Prevalence of Ear, Nose & Throat diseases and Adequacy of ENT training among General Physicians

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Abstract:

Background: Among general physicians (GPs) consultations, Ear, Nose and Throat (ENT) diseases account for about 25% in adults and up to 50% in children. General physicians are required to have adequate training to deliver efficient primary health care. This study was aimed to find prevalence of ENT diseases and adequacy of ENT training among GPs in Azad Jammu and Kashmir (AJK).

Methods: This prospective study was conducted among hundred (100) GPs; having more than 1 year experience, of major cities of AJK. A performa was designed and distributed. The responses were collected and analysed.

Results: Prevalence of ENT diseases in adults was 24% and in children 38%. Majority of GPs (72-96%) stated that there should be improvement in undergraduate training and arrangement of 4-8 weeks ENT house job rotation as well as ENT continuous medical education (CME) programs.

Conclusion: There is some competency deficiency in GPs regarding ENT related primary health care; which can be minimized by improving under-graduate, house job and CME training.

Keywords: Incidence, ENT diseases, adequacy of training, General physicians, House job, CME

Introduction

As GPs provide about 60-70% of total health care, they are required to have adequate training to deliver efficient primary health care. Among GP consultations Ear, Nose, and Throat (ENT) diseases account for about 25% in adults and up to 50% in children. Using Delphi process, a structured evidence-based ENT undergraduate curriculum can be developed and adopted to produce a high quality training program. There is a steady increase in incidence of ENT diseases probably due to increase in health services, awareness, pollution and traffic. The knowledge of magnitude of ENT diseases will help health authorities to implement its management and preventive programs. Disorders of ENT have significant morbidity and can affect ability to acquire knowledge and skill. For example, severe deafness impairs speech development although speech apparatus is normal and it also badly affects learning. Upper airway obstruction can lead to heart failure, sleep apnoea syndrome and snoring, disturbing also the sleep of persons sharing the same room. Trauma and foreign bodies of aero-digestive tract if not managed properly, can kill the person.

The three opportunities to train GPs are; at undergraduate level, during house job, and by CME programs. An internet social site can be established where ENT problems can be discussed. Improved and frequent interaction between GPs and Otolaryngologists may result in better appreciation of otolaryngology. The ENT disease burden in community is huge, and a GP must have adequate training to provide due primary care. Proper ENT training of GPs will decrease burden of hospital care, avoid unnecessary ENT referrals, include necessary referrals and improve primary health care. The objective of this study was to have an insight of prevalence of ENT diseases in Azad Jammu & Kashmir and the level of know-how among the general physicians about the ENT diseases.

Subjects & Methods

This prospective study was conducted among general physicians of major cities of Azad Jammu and Kashmir (AJK) over a period of 18 months from Jan 2014 to June 2015. Approval from ethical committee was taken prior to the start of study. A performa was designed and distributed personally to 100 GPs (having more than one years of experience) from major cities of AJK, i.e., Muzaffarabad, Mirpur, Kotli, Rawalakot, Bhimber, Bagh, Hattian Bala, and Sudhnoti. All authors went to GPs of nearby areas and distributed the performas.

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responses were collected personally by respective authors and analysed on SPSS.

**Results**

The overall prevalence of ENT diseases was about 31% while it was 24% in adults and 38% in paediatric patients. Majority (66%) of GPs stated that their undergraduate ENT training was satisfactory and 34% stated that it was inadequate. Most of GPs (80%) stated that they received no ENT training during their house job (Table-1). Improvement in ENT undergraduate training was suggested by 72% of GPs. Most of GPs (90%) suggested that considering significant bulk of ENT patients and ENT examination now being conducted in 4th year; it should be made compulsory to do 4–8 weeks rotation in ENT during house job. Seminars and Workshops for CME programs were suggested by 96% of GPs to improve and update their knowledge and skills about ENT diseases (Table-2). Average ENT referrals rate was 14% and range was 10–18% being more in paediatric patients and less in adults (Table-3).

<table>
<thead>
<tr>
<th>Level of Training</th>
<th>Satisfactory</th>
<th>Unsatisfactory</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBBS</td>
<td>66%</td>
<td>34%</td>
</tr>
<tr>
<td>House Job</td>
<td>20%</td>
<td>80%</td>
</tr>
<tr>
<td>During General Practice(CME)</td>
<td>6%</td>
<td>94%</td>
</tr>
</tbody>
</table>

**Table-2: Opinion of GPs to increase ENT training**

<table>
<thead>
<tr>
<th>Level of Training</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBBS</td>
<td>72%</td>
<td>28%</td>
</tr>
<tr>
<td>House Job</td>
<td>90%</td>
<td>10%</td>
</tr>
<tr>
<td>During General Practice(CME)</td>
<td>96%</td>
<td>4%</td>
</tr>
</tbody>
</table>

**Discussion**

About 70% of all patients have simple diseases, require only primary care and these patients should be treated by GPs. About 30% of all patients have complicated or serious diseases and these should be referred by GPs, after giving primary care, to concerned specialists for secondary and tertiary care. As GPs provide about 70% of total healthcare, they are required to have adequate training to deliver efficient primary healthcare.

Training in ENT is difficult as compared to other specialties because more time is needed to appreciate signs of a disease or a procedural view in a cavity of ear, nose or throat. Moreover for ENT practice, some equipment and good light source is required which may not be available everywhere.

Results of this study showed that prevalence of ENT diseases among GPs practice in AJK is 24% in adults and 38% in children. These results are comparable to studies in Scotland and Ireland who found incidence to be 20-25% for adults and up to 50% for children. Due to this huge prevalence, it is essential that GPs should be trained enough to manage all simple ENT diseases and should identify, stabilize and refer complicated ENT diseases timely and properly. The 14% ENT specialist referrals rate of this study is comparable to a study by Oosthuizen et al in Ireland which showed that among 3.3 million patients seen during 2009, up to 20% patients were referred to ENT specialists. Guidelines or activities which help the GPs to increase the number of appropriate referrals are beneficial. About 50-60% of newly qualified doctors opt to become general physicians. The ENT training of GPs is variable and inadequate in most areas of the world.

Although 66% of GPs in this study were satisfied with their undergraduate ENT training, 34% were not satisfied at all. This is contradictory to various studies conducted in United Kingdom (UK) who found that majority of GPs had inadequate undergraduate ENT training. The probable reason is that in Pakistan 4–6 weeks undergraduate ENT training is compulsory but in most of European countries particularly in England, it is less than 4 weeks and is also optional. In a study by Sharma et al in London it was found that 90% GPs felt that their undergraduate ENT training was directly beneficial to working in accident and emergency department and 75% felt that they did not received enough undergraduate ENT training. Amanda H et al in 2012, found that ENT training is not uniform and in most of centres, little time is given during undergraduate and postgraduate training of general physicians. Majority of GPs (72-96%) in this study suggested improvement in undergraduate training and arrangement of 4–8 weeks ENT house job rotation and CME programs for ENT diseases. These results are almost similar to various studies conducted in United States of America (USA), UK, Canada, Ireland, and India where 70-95% of GPs suggested that there should be more emphasis on ENT training. In this study the statistical analysis indicated that a significant number of GPs (72-96%) were in favour of improvement in current ENT training. Increased ENT training will lead to successful management of most of simple ENT diseases at primary care level and early detection of difficult
complicated ENT diseases being referred sooner for ENT specialist’s care.20, 21
This was a unique original study conducted locally in Azad Jammu and Kashmir, Pakistan. No previous such type of study was available from this area. Even in other areas of Pakistan, only few studies were available. Therefore importance of this study is that application of its facts by health authorities can improve overall health care of general public; particularly improving the primary, ear, nose and throat care by General Physicians.

**Conclusion**

This study indicated some deficiency in ENT training of GPs which is a food for thought for health care authorities. Better undergraduate level training, 4–8 weeks house job, and CME programmes for ENT diseases, would improve the standard of ENT related primary health care by GPs.

**References**


