A Snapshot On Socio-economic Status and Outcomes in **Oropharyngeal Cancer**

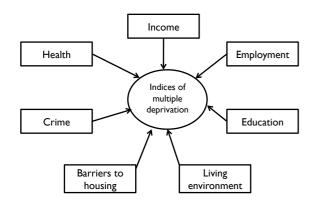
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Bartshealth is one of the largest NHS trusts in the UK, with a catchment of 2.5 million people¹ in East London. It is one of the most ethnically diverse areas as well as most deprived; Tower Hamlets, Hackney and Newham ranking as the top 3 nationally². It is recognized that age, male gender and social deprivation are associated with an increased cancer risk³. There is a clear increase in head and neck cancer with oropharyngeal cancers having the most significant rise especially amongst middle-aged adults from highest level of deprivation⁴.

We wanted to determine whether healthcare-seeking behavior is different amongst different ethnic groups, and also whether cancer outcomes can be correlated to indices of multiple deprivation.

Methods:

This is a retrospective study of oropharyngeal head and neck cancer cases diagnosed between 2014-2016 at a tertiary cancer centre. Patient information was collected including age, diagnosis, staging and treatment outcomes. This was correlated with ethnicity and indices of multiple deprivation. We extracted information about diagnosis and treatment from electronic notes and MDT outcomes in our institution. The English Indices of deprivation 2015 database was used for deprivation data5.



https://www.bartshealth.nhs.uk/about-us 2

https://www.gov.uk/government/statistics/english-indices-of-deprivation-2010

rkin D.M., Boyd L. & Walker L.C. (2011) The fraction of cancer attributable to lifestyle and environmental factors in the UK in 2010 summary and conclusions. Br. J. Cancer 105, S77–S81. D. Tataru, V. Mak, R. Simo, E.A. Davies, J.E. Gallagher, (2017) Trends in the epidemiology of head and neck cancer in London Clin. Otolaryngol. 42, 104–114

http://imd-by-postcode.opendatacommunities.org



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References



Results:

There were 62 patients diagnosed with oropharyngeal cancer between 2014-2016, of which the ratio of men to women was 3:1. The predominant subtypes being the tonsil in 27 patients (43.5%) and 25 patients with base of tongue (40.3%). Nine (14.5%) patients presented with symptoms of their cancer to the emergency services rather than through the 2 week wait pathway via their GP. A Chi-squared test was used to analyse the relationship between ethnicity, deprivation and diagnosis.

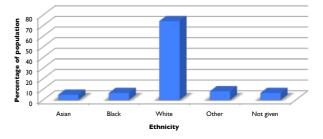


Table 1: Ethnicity distribution of oropharyngeal cancers

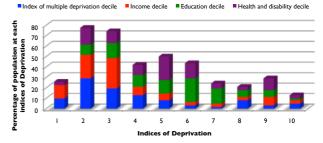


Table 2: Distribution of deprivation within population

Conclusion:

There is a 3:1 male to female ratio, the predominant subtypes were tonsil (43%)and base of tongue(40%). There was no statistical correlation between the different factors, a trend was observed in that women present with an earlier tumour stage. The following factors were associated with a higher incidence of oropharyngeal cancer:

> Male gender Tonsil subsite •56-70 age group Moderate education backgrounds More deprived backgrounds.