479 Letters

the irradiated field of a patient receiving phenytoin should be followed closely and, upon signs of extension, both radiation therapy and phenytoin should be discontinued and high-dose steroids instituted.

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## Shifts in Respiratory and Upper **Digestive Tract Cancer in Eastern** Austria

## H. Swoboda

IN EASTERN AUSTRIA, from 1960 to 1989, mortality in males from buccopharyngeal cancer (ICD 140-149) rose steadily

whereas lung cancer mortality declined, both trends resulting from a double wave shaped cohort effect [1, 2]. The complex site larynx showed only slight cohort-related trends of regional mortality [2]. Cases diagnosed at our institution, however, covering one fourth of regional incidence, suggested a rise of hypopharynx carcinoma and a decrease of laryngeal, especially glottic carcinoma [3]. Age-specific patterns showed similarities between hypopharynx carcinoma and buccopharyngeal cancer, and between larynx carcinoma and lung cancer, respectively [1, 3]. The Eastern Austrian ratio of buccopharynx cancer by lung cancer, in number of deaths, and the hospital-based ratio

Buccopharynx/lung 0.16 0.140.12 010 Ratio P<0.001 008 0.06 0.04 002 65 85 70 75 RO 89 Year

Fig. 1. Ratio of buccopharynx cancer (n = 2805) by lung cancer (n = 40346), males, deaths, Eastern Austria 1960–1989.

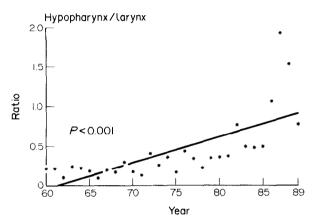


Fig. 2. Ratio of hypopharynx carcinoma (n = 334) by larynx carcinoma (n = 1048), males, Department of Otorhinolaryngology 1, University of Vienna 1960-1989.

of hypopharynx carcinoma by larynx carcinoma, have been increasing continuously (Figs 1 and 2). Thus substituting precise, yet not strictly representative hospital data to regional statistics, strikingly parallel developments emerge: hypopharynx carcinoma resembled buccopharyngeal cancer, and larynx carcinoma resembled lung cancer. Increase obviously did not affect sites of the respiratory tract subject to the classical risk factor of inhalative smoking, but rather affected sites with a more complex aetiological background, notably interactions of tobacco and alcohol [4-6].

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