

**Supplemental Table 3. Adjusted odds ratios (OR) and 95% confidence intervals (CI) for the association between head and neck cancer and diabetes (yes/no) by cigarette smoking status<sup>a</sup> and stratified by site,<sup>b</sup> INHANCE Pooled Case-Control Study of Head and Neck Cancer**

Diabetes (yes/no)	Cases exposed/ unexposed N	Controls exposed/ unexposed N	Covariate Set 1 <sup>c</sup>		Covariate Set 2 <sup>d</sup>	
			OR	(95% CI)	OR	(95% CI)
Never cigarette smokers						
Oral cavity	14/130	356/4840	1.30	(0.72-2.36)	1.45	(0.80-2.64)
Oropharynx	19/206	356/4840	1.11	(0.66-1.85)	1.00	(0.59-1.68)
Hypopharynx	1/34	356/4840	0.26	(0.03-1.94)	0.34	(0.05-2.63)
Oral cavity/pharynx NOS	23/191	356/4840	1.46	(0.90-2.35)	1.42	(0.87-2.30)
Larynx	16/85	356/4840	1.92	(1.07-3.46)	1.93	(1.06-3.50)
Ever cigarette smokers						
Oral cavity	59/815	628/7316	0.74	(0.54-1.01)	0.95	(0.69-1.31)
Oropharynx	95/1205	628/7316	0.87	(0.68-1.12)	1.09	(0.84-1.41)
Hypopharynx	34/489	628/7316	0.77	(0.52-1.15)	1.03	(0.69-1.54)
Oral cavity/pharynx NOS	38/573	628/7316	0.58	(0.40-0.83)	0.71	(0.49-1.02)
Larynx	199/1835	628/7316	0.94	(0.77-1.15)	1.04	(0.85-1.27)

<sup>a</sup> Numbers of never smokers do not match numbers for zero pack years because missing data for these variables were simultaneously imputed.

<sup>b</sup> Analyses do not include Seattle (OralGen)<sup>27</sup> because two sites were not included in this study (hypopharynx and larynx).

<sup>c</sup> Adjusted for age, race, sex, study centers, education level, pack-years of cigarette smoking (if ever smoker), and alcohol drinks per day (if ever drinker).

<sup>d</sup> Adjusted for age, race, sex, study centers, education level, pack-years of cigarette smoking (if ever smoker), alcohol drinks per day (if ever drinker), and BMI.