

**Table 2.8. Cohort studies of exposure to natural sunlight and cancer of the lip or of the eye**

Reference, location, name of study	Cohort description	Exposure assessment	Organ site (ICD code)	Exposure categories	No. of cases/deaths	Relative risk (95% CI)*	Adjustment for potential confounders	Comments
Guech-Ongey <i>et al.</i> (2008), USA, 1980–1994	Cohort of 491 048 (395 954 M, 95 094 W) adults in the US. HIV/AIDS Cancer Match (HACM) Study, aged > 15 years or older, with HIV/AIDS, diagnosed from 1980 – 2004. The US. HACM Study links population-based HIV/AIDS registry and cancer registry databases in 9 US states (Connecticut, Florida, Texas, Colorado, Georgia, Massachusetts, Michigan, Illinois and New Jersey) and 5 metropolitan areas (New York City, Los Angeles, San Diego, San Francisco and Seattle)	Exposure information was extracted from the US. HACM Study. The study links population-based HIV/AIDS registry and cancer registry databases in 9 US states and 5 metropolitan areas. UV Index data published by the National Oceanic and Atmospheric Administration were used to evaluate the relationship between eye cancers and UV radiation.	Squamous cell carcinoma of the conjunctiva (SCCC)	<i>UVB index</i>			None	
				< 4	6	9.1 (3.3–19.8)		
				4–5.4	3	16.8 (3.5–49.1)		
				≥ 5.5	6	15.4 (5.7–33.6)		
			Primary ocular lymphoma	< 4	21	23.0 (14.2–35.2)		
				4–5.4	2	10.4 (1.3–37.7)		
				≥ 5.5	12	23.7 (12.3–41.5)		
			Primary ocular Kaposi sarcoma (KS)	< 4	13	178 (62.6–201)		
				4–5.4	4	106 (28.9–272)		
≥ 5.5	0	0.0						

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Håkansson <i>et al.</i> (2001), Sweden, 1971–1993	Cohort of 323 860 male employees in participating in an occupational health service program of the Swedish construction industry (Bygghälsan Forskningsstiftelse, Stockholm, Sweden) between 1971 and 1993; mean age at first examination was 34.5, the median age was 31 years	Cancer incidence was obtained by linkage to the Swedish Cancer Registry. For subjects examined in 1971–1985, access to information on previous job task and job task at examination was available. For those examined in 1986 and later, only the latter was available.	Lip (140),	<i>Occupational sunlight exposure</i>			Age, smoking, and magnetic field exposure	
				Low	46	1.0		
				Medium	61	1.4 (0.9–2.1)		
				High	9	1.8 (0.8–3.7)		
			Lower lip (140.1),	Low	39	1.0		
				Medium	56	1.5 (1.0–2.3)		
				High	7	1.7 (0.7–3.8)		
			Eye (192)	<i>All malignant melanomas</i>				
				Low	12	1.0		
Medium	18	1.4 (0.7–3.0)						
	High	5	3.4 (1.1–10.5)					