

Table 2.4. Reviews and meta-analyses of sun exposure and melanoma, published after 1992

Reference, study location & period	Cases Study and cases definition	No. of studies included	Exposure categories	Relative risk (95%CI)*	Adjustment for potential confounders	Comments	
Nelemans <i>et al.</i> (1995) (Europe; Nth America; Australia)	25 case-control studies Most studies excluded LMM	7 population-based studies	Low intermittent	1.0		Heterogeneity so restricted analyses; no standardised measures for 'intermittent' or 'chronic' sun	
			Max intermittent	1.6 (1.3–1.9)			
Elwood&Jopson (1997) (Europe; Nth America; Australia)	29 case-control studies Most studies excluded LMM 4 771	19 studies	Low occupational	1.0		Heterogeneous results	
			Max occupational	0.7 (0.6–0.9)			
		6 934	23 studies	No sunburn			1.0
				Ever sunburn			1.9 (1.7–2.2)
6 517	20 studies	Low intermittent	1.0				
		Max intermittent	1.7 (1.5–1.9)				
3 540	11 studies	Low occupational	1.00				
		Max occupational	0.9 (0.8–1.0)				
Dennis <i>et al.</i> (2003) (Europe; Nth America; Australia)	20 studies Most studies excluded LMM	13 studies	Low total	1.0	Sun-sensitivity	Significant heterogeneity	
			Max total	1.2 (1.0–1.4)			
Gandini <i>et al.</i> (2005a) (Europe; Nth America; Australia)	57 studies Most studies excluded LMM	33 studies	Never sunscreen	1.0		Significant heterogeneity	
			Ever sunscreen	0.8 (0.6–1.0)			
		33 studies	No sunburn	1.0			
			Ever sunburn	2.0 (1.7–2.4)			
		41 studies	Low intermittent	1.0			
			Max intermittent	1.6 (1.3–2.0)			
15 studies	Low chronic	1.0					
	Max chronic	1.0 (0.9–1.0)					
	Low total	1.0					
	Max total	1.3 (1.0–1.8)					

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Gandini <i>et al.</i> (2005b) 13 case-control studies; 3 cohort studies (Europe; Nth America; Australia)		11 studies	<i>Actinic tumours</i> None Present/past Hx	1.0 4.3 (2.8–6.6)		Significant heterogeneity
		10 studies	<i>Actinic damage</i> Absent Present	1.0 2.0 (1.2–3.3)		Significant heterogeneity
Dennis <i>et al.</i> (2008) 51 studies (Europe; Nth America; Australia)	Most studies excluded LMM	27 studies	<i>Childhood</i> No sunburn Ever sunburn	1.0 1.9 (1.6–2.3)		Significant heterogeneity
		13 studies	<i>Adolescence</i> No sunburn Ever sunburn	1.0 1.6 (1.4–1.9)		
		13 studies	<i>Adulthood</i> No sunburn Ever sunburn	1.0 1.4(1.3–1.6)		
		5 studies	<i>Recent</i> No sunburn Ever sunburn	1.0 1.6 (1.0–2.7)		
		28 studies	<i>Lifetime</i> No sunburn Ever sunburn	1.0 1.6 (1.4–1.8)		

LMM, lentigo maligna melanoma