

Supplementary Table 1. Patients with in situ melanoma as first tumor and invasive melanoma as the second tumor, and vice versa

	1960s	1970s	1980s	1990s	2000s*	P value, 2000s decade vs. ‡			
						1960s	1970s	1980s	1990s
Women with invasive as first melanoma									
In situ as second melanoma, n (%)	0 (0.0%)	12 (0.3%)	64 (1.1%)	113 (1.5%)	117 (2.6%)				
Incidence (95% CI)†	0.0 (0.0-0.3)	0.4 (0.2-0.8)	1.4 (1.1-1.8)§	1.8 (1.5-2.2)§	3.2 (2.6-3.8)§	0.002	<0.001	<0.001	<0.001
Women with in situ as first melanoma									
Invasive as second melanoma, n (%)	1 (1.6%)	4 (1.7%)	36 (3.1%)	78 (3.0%)	68 (3.8%)				
Incidence (95% CI)	1.6 (0.0-9.0)	1.8 (0.5-4.7)	3.4 (2.4-4.7)	3.3 (2.6-4.1)	4.2 (3.3-5.4)	0.3389	0.108	0.306	0.117
Men with invasive as first melanoma									
In situ as second melanoma, n (%)	1 (0.0%)	3 (0.1%)	44 (0.8%)	123 (1.7%)	137 (3.2%)				
Incidence (95% CI)	0.1 (0.0-0.6)	0.2 (0.0-0.4)	1.2 (0.9-1.6)	2.3 (1.9-2.7)§	4.2 (3.5-5.0)§	<0.001	<0.001	<0.001	<0.001
Men with in situ as first melanoma									
Invasive as second melanoma, n (%)	1 (3.3%)	7 (4.4%)	36 (4.4%)	69 (3.5%)	61 (4.6%)				
Incidence (95% CI)	4.0 (0.1-22.2)	5.1 (2.1-10.5)	5.2 (3.6-7.2)	4.1 (3.2-5.2)	5.3 (4.1-6.8)	0.287	0.918	0.915	0.135

*First primary melanomas diagnosed in 2000-2004

†Incidence (95% confidence interval) of a second primary melanoma per 1,000 person-years after the diagnosis of a first melanoma

‡P value for the rate ratio of the incidence rate in the 2000s decade compared to the incidence in the 1990s, 1980s, 1970s and 1960s.

§Incidence rate was significantly higher in this decade ($P<0.05$) than in the closest preceding decade.