

Melanoma Treatment Costs

A Systematic Review of the Literature, 1990–2011

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Appendix A

Melanoma direct medical costs by treatment interventions and care setting

Study	Intervention/treatment	Total costs, \$	Per-patient cost, \$
U.S. Studies			
Tsao et al. (1998) ¹	Annual cost diagnosis	43,902,630	1,089
	Surgery and pathology	85,009,501	6,251
	External radiation	50,733,216	20,132
	Adjuvant interferon	250,133,832	46,321
	Chemotherapy	89,612,784	12,276
	Follow-up	53,527,882	1,228
	Terminal care	326,397,600	44,712
Bickers et al. (2006) ²	Hospital inpatient	43,855,000	4,216 ^a
	Hospital, outpatient	95,228,000	2,204 ^a
	Hospital emergency department	1,253,000	155 ^a
	Office visits	126,553,000	214 ^a
	Prescription drugs	97,734,000	NA
Davis et al. (2009) ^{3,b}	Hospital costs	165,083,785	25,515
	Skilled-nursing facility costs	55,160,675	8,526
	Emergency room costs	3,191,186	493
	Office visit costs	87,322,129	13,496
	Home healthcare costs	23,566,002	3,642
	Hospice costs	31,183,267	4,820
	Other outpatient or ancillary costs	108,028,678	16,697
Non-U.S. studies			
Mathers et al. (1998) ⁴	Hospital	15,219,507	2,341 ^c
	General practitioner visits	17,497,256	33 ^a
	Specialist visits	18,739,665	35 ^a
	Pharmaceuticals	1,035,341	NA
	Nursing home	414,136	41,414
	Allied health	2,070,681	18 ^a
O'Dea (2000) ⁵	Hospital costs	2,114,034	2,072 ^c
	Nonhospital costs	7,307,472	NA
Nilsson et al. (2003) ⁶	Hospital inpatient care	1,396,120	6,261
	Hospital ambulatory care	1,470,020	574
	Primary health care	52,842	76
	Pharmaceuticals	168,073	NA
Stang et al. (2007) ^{7,d}	Hospitalization (melanoma)	75,886,592	3,710 ^c
	Hospitalization (melanoma in-situ)	3,241,038	3,274
Chevailler et al. (2008) ⁸	Total hospital	74,131,425	1,728 ^c

Study	Intervention/treatment	Total costs, \$	Per-patient cost, \$
	Surgery	27,941,908	2,970 ^c
	Chemotherapy	12,207,239	1,167 ^c
	Radiation therapy	890,076	318 ^c
	General care	33,092,202	1,634 ^c
	Follow-up	14,465,193	1,029 ^c
	Transfusion	193,540	935 ^c
	Palliative care	4,850,881	6,164 ^c
	Other	13,582,587	2,613 ^c
Tinghog et al. (2008) ⁹	Inpatient care	9,854,427	6,042 ^e
	Outpatient care	19,772,204	2,263
	Primary care	198,864	208 ^e
Morris et al. (2009) ¹⁰	General practitioner consultations	868,324	125
	Inpatient care	12,439,087	3,251 ^a
	Day cases	2,757,946	504 ^a
	Outpatient attendances	21,221,017	122 ^a
	Patient costs	6,608,836	954
O'Dea (2009) ¹¹	Hospital costs	2,625,989	1,937 ^c
	Lab test	85,167	44
	General practitioner consultations	177,432	97
	Other nonhospital costs	1,135,563	568
Leiter et al. (2009) ¹²	Detection and follow-up (Germany)	635,726	3,117 ^f
	Detection and follow-up (U.S.)	1,869,184	9,162

Note: All costs are in 2010 U.S. dollars.

^a Per visit

^b Annual costs are estimated by taking weighted average of monthly cost by stage and multiplying by 12.

^c Per stay

^d Costs are estimated by taking the average of the three estimates reported in the paper.

^e Per episode

^f Per recurrence

NA, not available

References for Appendix A

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