

Supplemental Table I. Missing data for American Academy of Dermatology questionnaire variables
(N = 2,046,531)

AAD questionnaire variable	Years in which the variable was collected*	Total missing, n (%)	Missing in years in which the variable was collected, n (%)
Sex	1986-2014	34,718 (1.7)	34,718 (1.7)
Age	1986-2014	183,966 (9.0)	183,966 (9.0)
Race	2001-2010 and 2012-2014	1,015,135 (49.6)	95,115 (8.4)
Education completed	1991-2008	827,176 (40.4)	47,319 (3.7)
Health insurance [†]	1992-2010	751,215 (36.7)	60,622 (4.5)
Regular dermatologist [‡]	1992-2010	788,907 (38.5)	98,314 (7.3)
Been to screening before [§]	1992-2010	741,842 (36.2)	51,249 (3.8)
Without screening, see doctor	1992-2014	512,012 (25.0)	204,261 (11.7)
Ever had skin checked for cancer [¶]	2001-2010	1,234,172 (60.3)	32,311 (3.8)
Personal history of skin cancer	1986-2014	72,031 (3.5)	72,031 (3.5)
Family history of skin cancer	1986-2014	115,038 (5.6)	115,038 (5.6)
Recent mole change [#]	1986-2014	160,551 (7.9)	160,551 (7.9)

*No screening forms were available for the years 1985, 1995, 1996, and 2000.

[†]Do you have health insurance?

[‡]Do you have a regular dermatologist?

[§]Have you ever been to a skin cancer screening before?

^{||}Without this screening, would you have seen a doctor for your skin?

[¶]Have you ever had your skin checked for cancer by a dermatologist or other doctor?

[#]Do you have any moles that have recently changed in size, color, or shape?

Supplemental Table II. American Academy of Dermatology National Skin Cancer Screening Program demographics (N = 1,963,141)

Variable	Screen year											
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1997	1998	1999
Sex												
Male	38.3	38.0	38.4	37.3	38.9	38.7	39.6	40.0	39.5	38.9	38.4	38.2
Female	61.7	62.0	61.7	62.7	61.1	61.3	60.4	60.0	60.5	61.1	61.6	61.8
Age, y*												
15-19	0.9	1.2	1.1	1.0	1.2	0.9	0.9	0.9	1.1	0.9	1.0	1.0
20-29	6.7	8.2	8.0	7.2	8.2	5.6	6.0	6.5	6.9	6.9	6.9	7.4
30-39	12.6	15.6	15.1	15.4	16.2	14.7	14.7	14.3	15.2	14.7	14.0	14.6
40-49	13.2	15.0	15.2	15.6	16.2	17.3	17.3	17.3	19.3	18.7	18.7	18.6
50-59	18.1	17.3	17.8	16.8	15.7	16.0	16.8	17.4	20.0	20.0	19.7	20.6
60-69	28.5	25.7	26.2	25.6	24.1	21.9	22.6	23.5	24.9	22.9	22.6	21.3
70-79	16.8	14.2	14.3	15.2	15.3	18.6	17.7	16.6	12.3	15.7	17.1	16.4
80-90	3.3	2.7	2.3	3.0	3.2	5.0	4.0	3.5	0.2	0.2	0.1	0.1
Education completed [†]												
Elementary school	—	—	—	—	—	5.0	4.3	4.8	3.7	3.0	3.0	2.8
High school	—	—	—	—	—	38.4	43.3	44.1	41.8	40.1	39.0	39.1
College	—	—	—	—	—	40.0	35.3	33.7	36.6	38.0	38.8	39.0
Graduate or post-graduate school	—	—	—	—	—	16.6	17.0	17.3	17.9	18.8	19.2	19.1
Race [†]												
White	—	—	—	—	—	—	—	—	—	—	—	—
Black	—	—	—	—	—	—	—	—	—	—	—	—
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—
Access to care [†]												
Uninsured [‡]	—	—	—	—	—	—	9.6	9.5	10.5	7.7	7.5	7.3
No regular dermatologist [§]	—	—	—	—	—	—	80.4	80.1	80.3	79.6	79.8	80.1
No prior screening	—	—	—	—	—	—	83.4	81.2	79.8	74.8	73.5	72.9
Would not have otherwise seen a doctor [¶]	—	—	—	—	—	—	51.9	52.3	51.1	50.3	50.6	50.7
Never checked for skin cancer before [#]	—	—	—	—	—	—	—	—	—	—	—	—
Risk factors												
Personal history of skin cancer	11.3	11.4	12.4	12.9	13.5	13.7	13.5	14.0	14.0	14.0	14.4	13.4
Family history of skin cancer	18.9	21.6	25.0	25.8	26.7	27.7	28.0	28.2	28.8	30.1	30.5	30.9
Recent change in mole ^{**}	0.0	0.0	40.4	41.9	40.9	30.5	29.2	28.3	28.9	29.9	30.0	29.4

*Persons younger than 15 or older than 90 years of age (1.4% of the screening population) were excluded because of a lack of century of birth (ie, date of birth was collected as MM/DD/YY), making an accurate calculation of age at these extremes tenuous.

[†]Not all variables were collected from 1986 to 2014. There are no screening forms for the years 1995, 1996, or 2000. Refer to Supplemental Table I for dates and missing data.

[‡]Do you have health insurance? (n = 1,299,765).

[§]Do you have a regular dermatologist? (n = 1,299,765).

^{||}Have you ever been to a skin cancer screening before? (n = 1,299,765).

[¶]Without this screening, would you have seen a doctor for your skin? (n = 1,660,846).

[#]Have you ever had your skin checked for cancer by a dermatologist or other doctor? (n = 796,354).

^{**}Do you have any moles that have recently changed in size, color, or shape?

Supplemental Table III. AAD National Skin Cancer Screening Program demographics (N = 1,963,141)

Variable	Screen year													
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Sex														
Male	38.3	39.4	37.9	37.6	37.9	37.3	35.8	36.2	34.2	34.9	35.8	36.6	37.4	38.0
Female	61.7	60.6	62.1	62.4	62.2	62.7	64.2	63.8	65.9	65.1	64.2	63.4	62.6	62.0
Age, y*														
15-19	1.3	1.2	1.2	1.1	1.0	1.3	1.1	1.1	1.3	1.2	1.2	1.2	1.1	1.0
20-29	8.2	8.7	7.3	7.3	7.1	8.5	8.4	8.6	8.6	8.4	8.5	9.4	9.4	9.3
30-39	15.4	14.9	13.4	12.0	11.4	12.9	11.8	12.1	12.0	12.0	11.7	12.2	12.7	13.1
40-49	21.6	20.9	20.7	18.2	17.8	19.6	17.3	17.2	16.9	17.3	16.9	16.3	15.8	15.7
50-59	25.6	25.2	25.8	22.7	23.7	25.6	23.0	23.5	23.9	24.6	24.7	24.0	24.0	23.3
60-69	23.5	23.4	24.2	21.2	21.6	22.4	21.3	21.2	21.7	21.5	22.0	21.8	21.8	22.1
70-79	4.1	5.5	7.2	13.3	13.2	9.5	13.0	12.2	11.7	11.3	11.3	11.2	11.3	11.6
80-90	0.4	0.3	0.3	4.2	4.2	0.2	4.3	4.2	3.9	3.8	3.7	3.9	3.8	3.8
Education completed[†]														
Elementary school	2.3	2.1	2.4	2.1	2.0	1.8	1.7	1.5	—	—	—	—	—	—
High school	37.7	37.1	37.3	36.7	36.0	34.9	34.1	33.4	—	—	—	—	—	—
College	39.3	40.8	39.9	40.8	41.0	42.3	42.3	43.1	—	—	—	—	—	—
Graduate or post-graduate school	20.8	20.1	20.4	20.5	20.9	21.1	21.9	22.0	—	—	—	—	—	—
Race[†]														
White	92.9	92.6	93.0	92.2	91.2	90.5	90.3	89.8	90.3	89.5	—	88.4	87.5	87.4
Black	1.8	1.7	1.6	1.9	2.0	2.3	2.6	2.6	2.4	2.5	—	2.7	3.1	3.0
Hispanic	2.6	2.9	2.6	3.1	3.6	3.9	3.9	4.2	3.9	4.3	—	4.7	4.9	4.7
Other	2.7	2.8	2.8	2.8	3.2	3.3	3.2	3.4	3.5	3.8	—	4.3	4.5	4.9
Access to care[†]														
Uninsured [‡]	7.4	8.4	8.3	9.1	8.9	9.6	9.6	9.5	11.2	11.4	—	—	—	—
No regular dermatologist [§]	80.0	80.0	78.8	78.7	79.0	79.3	79.0	78.9	77.7	78.2	—	—	—	—
No prior screening	71.5	70.3	68.0	67.2	66.5	68.1	71.8	71.4	70.3	69.2	—	—	—	—
Wouldn't have otherwise seen doctor [¶]	50.9	51.1	51.1	52.0	51.7	51.6	51.7	51.6	51.9	52.8	47.6	52.6	52.7	52.2
Never checked for skin cancer before [#]	49.0	48.4	46.2	45.9	45.7	47.0	46.4	46.4	46.2	46.0	—	—	—	—
Risk factors														
Personal history of skin cancer	13.8	13.7	14.9	14.1	14.0	13.1	13.2	13.1	13.0	12.1	13.1	13.2	13.1	13.3
Family history of skin cancer	34.7	34.7	35.9	36.3	36.2	36.2	36.1	36.3	39.3	39.1	40.0	39.9	40.1	40.3
Recent change in mole ^{**}	32.5	32.0	31.6	31.2	31.2	30.9	30.3	30.0	30.9	30.3	32.1	30.5	30.6	29.2

*Persons younger than 15 years or older than 90 years (1.4% of screening population) were excluded because of a lack of century of birth (ie, date of birth was collected as MM/DD/YY), making an accurate calculation of age at these extremes tenuous.

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^{**}Do you have any moles that have recently changed in size, color, or shape?