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*Supplementary Data*

## Indoor tanning bed use and risk of food addiction based on the modified Yale Food Addiction Scale

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**Supplementary Table 1 Hazard ratios (95% confidence interval) for the association between indoor tanning and risk of depression in the Nurses' Health Study II (2001-2011) <sup>a</sup>**

Times per year	Indoor tanning at high school/college				Average indoor tanning				
	Person-years (cases)	Age-adjusted HR (95% CI)	MV-adjusted HR <sup>b</sup> (95% CI)	Person-years (cases)	Age-adjusted HR (95% CI)	MV-adjusted HR <sup>b</sup> (95% CI)	Person-years (cases)	Age-adjusted HR (95% CI)	MV-adjusted HR <sup>b</sup> (95% CI)
Never	186,759(2,079)	1.00 (Ref)	1.00 (Ref)	169,334(1,828)	1.00 (Ref)	1.00 (Ref)	160,175(1,709)	1.00 (Ref)	1.00 (Ref)
1-2	7,671 (101)	1.16 (0.95-1.42)	1.15 (0.94-1.41)	15,205 (188)	1.14 (0.98-1.32)	1.11 (0.95-1.29)	26,962 (344)	1.19 (1.06-1.34)	1.17 (1.03-1.31)
3-5	4,036 (53)	1.18 (0.90-1.55)	1.16 (0.88-1.52)	6,957 (107)	1.39 (1.14-1.70)	1.36 (1.11-1.65)	7,843 (123)	1.45 (1.21-1.75)	1.41 (1.17-1.70)
6-11	2,362 (32)	1.17 (0.82-1.67)	1.14 (0.80-1.62)	6,036 (83)	1.27 (1.01-1.58)	1.21 (0.97-1.51)	4,789 (65)	1.28 (1.00-1.65)	1.24 (0.97-1.60)
12-23	1,551 (22)	1.23 (0.80-1.88)	1.16 (0.76-1.78)	3,548 (52)	1.36 (1.03-1.79)	1.30 (0.99-1.73)	3,100 (51)	1.52 (1.15-2.02)	1.42 (1.07-1.88)
≥ 24	729 (8)	0.99 (0.49-1.99)	0.92 (0.46-1.85)	2,027 (37)	1.71 (1.23-2.37)	1.60 (1.15-2.22)	239 (3)	1.23 (0.39-3.84)	1.06 (0.34-3.31)
Per 4 times		1.04 (0.98-1.11)	1.03 (0.96-1.10)		1.09 (1.05-1.14)	1.08 (1.04-1.12)		1.13 (1.06-1.19)	1.11 (1.04-1.17)
P for trend		0.21	0.39		<0.0001	<0.0001		<0.0001	0.0009

<sup>a</sup> Depression was defined as self-reported clinical depression or regular use of anti-depressant medication.

<sup>b</sup> Adjusted for age (continuous), race (Caucasian, Hispanic, African American, or Asian), physical activity (in quintiles), BMI (in continuous variable), smoking (never, past, current smokers with 1-14, 15-34, or ≥ 35 cigarettes/day), alcohol intake (0, 1-4, 5-9, 10-14, or ≥ 15g/d), major chronic diseases (yes or no), menopausal status and hormone use among postmenopausal women (pre-menopause, post-menopause and never users, past or current users), rheumatoid arthritis (yes or no), sleep duration (hours/day), frequent snoring (every night, most nights, a few nights/wk, occasionally, or almost never), and predicted Vitamin D score (in quintiles).

**Supplementary Table 2 Odds ratios for the association between indoor tanning at high school/college and bulimia nervosa and anorexia nervosa in high school in the Nurses' Health Study II**

Times per year	Bulimia nervosa				Anorexia nervosa				
	n (cases)	Age-adjusted OR (95% CI)	MV-adjusted OR <sup>a</sup> (95% CI)	n (cases)	Age-adjusted OR (95% CI)	MV-adjusted OR <sup>a</sup> (95% CI)	n (cases)	Age-adjusted OR (95% CI)	MV-adjusted OR <sup>a</sup> (95% CI)
Never	33,904 (470)	1.00 (Ref)	1.00 (Ref)	33,904 (1156)	1.00 (Ref)	1.00 (Ref)	33,904 (1156)	1.00 (Ref)	1.00 (Ref)
1-2	1513 (28)	1.17 (0.80-1.72)	1.13 (0.77-1.67)	1513 (59)	1.03 (0.79-1.34)	1.03 (0.79-1.34)	1513 (59)	0.96 (0.74-1.26)	0.96 (0.74-1.26)
3-5	774 (21)	1.68 (1.07-2.62)	1.53 (0.98-2.40)	774 (27)	0.89 (0.60-1.31)	0.89 (0.60-1.31)	774 (27)	0.83 (0.56-1.22)	0.83 (0.56-1.22)
6-11	514 (18)	2.16 (1.34-3.50)	2.07 (1.27-3.37)	514 (14)	0.68 (0.40-1.17)	0.68 (0.40-1.17)	514 (14)	0.63 (0.37-1.08)	0.63 (0.37-1.08)
12-23	336 (19)	3.38 (2.10-5.44)	2.96 (1.82-4.81)	336 (21)	1.55 (0.99-2.43)	1.55 (0.99-2.43)	336 (21)	1.40 (0.89-2.20)	1.40 (0.89-2.20)
≥ 24	193 (10)	3.16 (1.66-6.04)	2.54 (1.32-4.91)	193 (15)	2.01 (1.18-3.42)	2.01 (1.18-3.42)	193 (15)	1.75 (1.02-2.99)	1.75 (1.02-2.99)
Per 4 times		1.28 (1.19-1.37)	1.24 (1.15-1.33)		1.08 (1.01-1.16)	1.08 (1.01-1.16)		1.06 (0.98-1.13)	1.06 (0.98-1.13)
P for trend		<0.0001	<0.0001		0.02	0.02		0.13	0.13

<sup>a</sup> Analyses were conducted using logistic regression and adjusted for age (continuous), race (Caucasian, Hispanic, African American, or Asian), physical activity (in quintiles), BMI (in continuous variable), smoking (never, past, current smokers with 1-14, 15-34, or ≥ 35 cigarettes/day), alcohol intake (0, 1-4, 5-9, 10-14, or ≥ 15g/d), UV index at birth, age 15, and age 30 years (5, 6, or 7 for each), depression (yes or no), major chronic diseases (yes or no).