Social Media and Tanning

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- We wanted to see the the correlation between social media use and tanning among college students.
- Hypothesis: a college student who uses social media more is more likely to tan more.
- Looking further into this research question we will look at factors of race, skin type, hours on social media, types of social media used and their knowledge of tanning exposure.





- 2006 Study: Frequent Tanning Bed Use, Weight Concerns, and Other Health Risk Behaviors in Adolescent Females (United States)
- Tanning in a bed 10 or more times were more likely than non-tanning bed users to be concerned about their weight and to have dieted to lose weight
- In 2006 little research had been done to examine the association between tanning and other risky behaviors
- The association between tanning use and social media needs evaluation to fully grasp how social pressures influence self esteem and participating in unhealthy behaviors

Methods

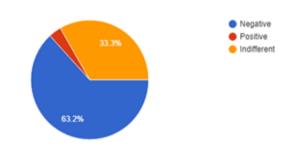
- Target population: college students ranging from age 18-25, in the UMass
 Amherst area
- A descriptive research method was used
- A survey was created and carried out on Google forms to collect our data
- Distributed surveys to our friends via text message, email, and/or facebook post
- Data outcome: 87 participants

Key Findings

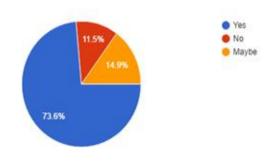
- People reported spent 3-4 hours on their phone per day.
- Most were for social and non-social reason (social being sharing a post on fb, non-social being looking up the news)
- The amount of time spent of their phone per day and if they go tanning or not was not statistically significant.
- Body imagine and if they go tanning or not was statistically significant.
- Someone who goes tanning due to thinking it make them more attractive was statistically significant.
- Those who considered themselves avid social media user and saw themselves more attractive when tan was a negative association so not statistically significant.

Do you think that social media has a negative or positive effect on how you view your body image?



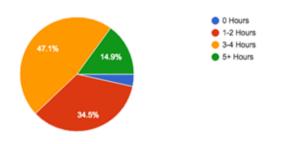


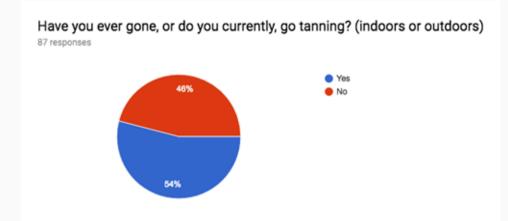
Has social media ever made you want to change your appearance?



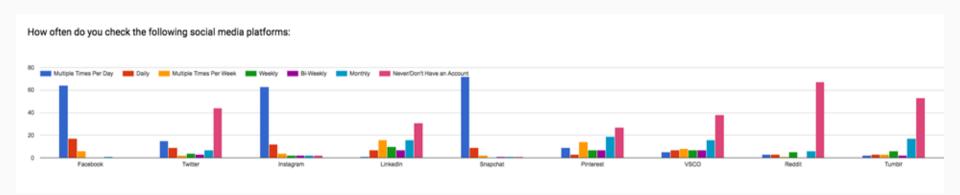
. tab sm_app	smbimage			
sm_app:				
has social				
media made				
you want				
to change	smbimage: eff∈	ct of soci	al media	
your	on bo	dy image		
appearance	0: negati 1:	positi 2:	indiff	Total
0: no	3	0	7	10
1: yes	50	2	12	64
2: maybe	2	1	10	13
Total	55	3	29	87

On average how many hours do you spend on social media in a day? (Ex: Facebook, Twitter, Instagram, Snapchat, VSCO, etc.)

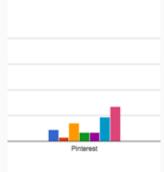




. tab smpday	tanever, chi2		
smpday: how often do you use social	tanever: hav		
media per	currently go,	tanning	
day	0: no	1: yes	Total
0: 0 hours	3	0	3
1: 1-2 hours	12	18	30
2: 3-4 hours	16	25	41
3: 5+ hours	9	4	13
Total	40	47	87
Pea	erson chi2(3) =	7.5846	Pr = 0.055

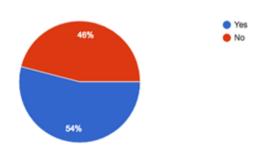


How often do you check the following social media platforms:



Have you ever gone, or do you currently, go tanning? (indoors or outdoors)

87 responses



tal
9
3
14
7
7
18
28
1
87

Pearson chi2(7) = 25.5067 Pr = 0.001

. tabodds tanever howoften_pin, or

howoften_pin	Odds Ratio	chi2	P>chi2	[95% Conf.	Interval)
0: mult~y	1.000000				
1: daily	0.250000	0.94	0.3315	0.012106	5.162549
2: mult∼k		5.13	0.0235		
3: weekly	1.250000	0.04	0.8435	0.135716	11.512986
4: bi-w~y	1.250000	0.04	0.8435	0.135716	11.512986
5: mont~y	0.500000	0.65	0.4201	0.089622	2.789479
6: neve~t	0.166667	5.05	0.0247	0.028088	0.988956
55: inc~t	0.000000	1.50	0.2207		

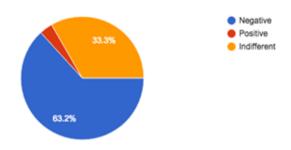
Test of homogeneity (equal odds): chi2(7) = 25.21Pr>chi2 = 0.0007

Score test for trend of odds: chi2(1) = 5.09

Pr>chi2 = 0.0241

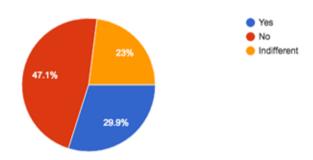
Do you think that social media has a negative or positive effect on how you view your body image?

87 responses



Do you like the idea of tanning?

87 responses



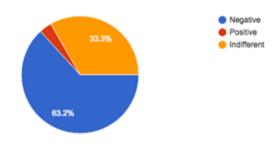
. tab smbimage tan_idea, chi2

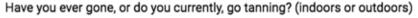
smbimage: effect of social media on body image	_	do you like t of tanning 1: yes 2:		Total
0: negative 1: positive 2: indifferent	23 1 17	22 0 4	10 2 8	55 3 29
Total	41	26	20	87

Pearson chi2(4) = 9.8644 Pr = 0.043

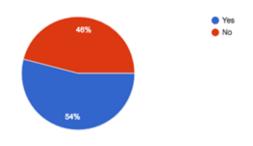
Do you think that social media has a negative or positive effect on how you view your body image?

87 responses





87 responses



. tabodds tanever smbimage, or

smbimage	Odds Ratio	chi2	P>chi2	[95% Conf.	Interval]
0: nega~e 1: posi~e 2: indi~t	1.000000 0.243243 0.218919	1.43 9.95	0.2325 0.0016	0.019593 0.077572	3.019785 0.617821

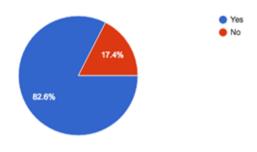
Test of homogeneity (equal odds): chi2(2) = 10.45

Pr>chi2 = **0.0054**

Score test for trend of odds: chi2(1) = 10.17Pr>chi2 = 0.0014

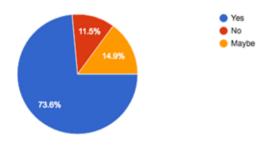
Do you consider yourself an avid social media user?

86 responses



Has social media ever made you want to change your appearance?

87 responses



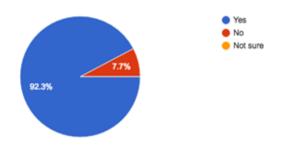
. tabodds socmed_user sm_app, or

sm_app	Odds Ratio	chi2	P>chi2	[95% Conf.	Interval]
0: no 1: yes 2: maybe	1.000000 6.111111 5.500000	7.18 3.06	0.0074 0.0803	1.347346 0.640670	27.717955 47.216168

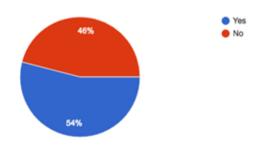
Test of homogeneity (equal odds): chi2(2) = 7.45 Pr>chi2 = 0.0241Score test for trend of odds: chi2(1) = 3.63 Pr>chi2 = 0.0568

Do you consider yourself more attractive when you are tan?

13 responses



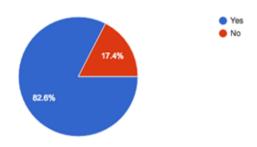
Have you ever gone, or do you currently, go tanning? (indoors or outdoors)



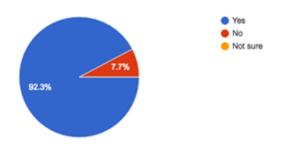
. cs att_tan tanev	ver			
	tanever: have gone, or curr tanning Exposed U	-	Total	
Cases Noncases	11 0	1 1	12	
Total	11	2	13	
Risk	1 Point es	.5 timate	.9230769 [95% Conf.	. Interval]
Risk difference Risk ratio Attr. frac. ex. Attr. frac. pop	. 4583	.5 2 .5 333	1929519 .5001953 9992191	1.192952 7.996876 .8749512
	c	hi2(1) =	5.96 Pr>chi	i2 = 0.0146

Do you consider yourself an avid social media user?

86 responses



Do you consider yourself more attractive when you are tan?



. cs socmed_user a	att_tan att_tan: do yo consider yours attractive aft	elf more		
	tanning Exposed Un		Total	
Cases Noncases	11	1 0	12	
Total	12	1	13	
Risk	.9166667	1	.9230769	
	Point est	imate	[95% Conf.	Interval]
Risk difference	08333	33	2397102	.0730436
Risk ratio	.9166667		.772901	1.087174
Prev. frac. ex.	.0833333		0871739	.227099
Prev. frac. pop	.07692	31		
	ch	i2(1) =	0.09 Pr>chi	2 = 0.7638

Limitations

- Question Errors: working status question, race identification question
- Recall Bias: hard for some to remember their history of tanning
- Selection Bias: respondents were people that we knew that go to UMass.
 Our group members are all female and sent the survey out to mostly female participants
- Different cultural standards of beauty around the world, this study does not account for these factors

Conclusion

- We can conclude social media in its integrity does not affect tanning
- However our data suggests there is an association between social media and self image, including avid social media users wanting to change their appearance after using social media

Sources

Picture 1:

https://www.google.com/search?q=tanning&source=lnms&tbm=isch&sa=X&ved=0ahUKEwiphf63wOPaAhUFvlkKHXkPBkAQ_AUICygC#imqrc=iGHqH6sYpb1t2M:

Picture 2:

https://www.google.com/search?q=social+media&source=lnms&tbm=isch&sa=X&ved=0ahUKEwiXjszOwOPaAhXFxFk KHSh0BT8Q_AUICygC#imgrc=N6HU9HqyEZyJeM:

Picture 3:

https://www.google.com/search?q=social+media+and+body+image&source=lnms&tbm=isch&sa=X&ved=0ahUKEwin u_KTwOPaAhUszlkKHSRvCvkQ_AUICygC&biw=970&bih=594#imgrc=DmFh6kszEXA0yM: