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The Selfie Generation: Examining the Relationship Between Social Media Use and Early Adolescent Body Image

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The Selfie Generation: Examining the Relationship Between Social Media Use and Early
Adolescent Body Image

THESIS

A thesis submitted in partial fulfillment of the
Requirements for the degree of Master of Science in the
College of Arts and Sciences
At the University of Kentucky

By

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2017

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ABSTRACT OF THESIS

THE SELFIE GENERATION: EXAMINING THE RELATIONSHIP BETWEEN SOCIAL MEDIA USE AND EARLY ADOLESCENT BODY IMAGE

Social media use among adolescents continues to increase each year. This study explored how the amount of time spent using social media and the specific behaviors used on social media, namely behaviors that involve self-objectification, were related to early adolescents' body image (i.e., body shame and body surveillance). Three types of social media popular among adolescents were examined: Twitter, Facebook, and Instagram. The current study also examined whether certain youth are more at risk for negative body image outcomes than others, by assessing whether adolescents who are particularly focused on others for approval (i.e. high self-monitors) show greater decrements in body image with greater social media use compared to other adolescents. Results indicated that frequency of social media use predicted higher levels of body shame among individuals high in self-monitoring, and that engagement in self-objectification behaviors on social media predicted higher levels of body surveillance among early adolescents. Implications of these findings are discussed.

KEYWORDS: Social Media, Body Image, Early Adolescents, Self-Objectification, Self-Monitoring

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To Mom and Dad,
For always putting my education first.

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Chapter 1

INTRODUCTION

Background and Significance

Early adolescence represents a period of vast developmental changes that span across the physical, psychological, and social dimensions of an individual. Early adolescence is characterized by increases in the importance of peers (Harter, 1999), the tendency to engage in social comparison (Martin & Kennedy, 1993), and the importance of physical appearance to self-worth (Harter, 1990) – all of which can increase youth’s vulnerability to negative body image (Clay, Vignoles, & Dittmar, 2005; Harter, 1999; Jones, 2001). Body image is generally defined as the degree to which individuals feel satisfied about their physical selves, which can include body shape, size, and appearance (Cash & Deagle, 1997). Further, these developmental changes all occur within a cultural context; for children in the US, that context includes heavy exposure to traditional and social media. For example, in recent years, social media use among adolescents has increased rapidly, and 92% of teens in the US (13-17) report going online daily, with 24% describing being online or on the Internet “almost constantly” (Lenhart et al., 2015). Because media consistently depicts a very specific and unrealistic body standard, this cultural context can further exacerbate early adolescents’ risk of developing negative body image (McKinley & Hyde, 1996). Together, the notable developmental changes that occur during early adolescence and the ubiquitous nature of social media as a cultural phenomenon suggest it is important to examine how using social media relates to body image among early adolescents. That is the focus of the current study.

The current study explored whether the amount of time spent using social media and the specific behaviors used on social media, namely behaviors that involve self-objectification, are

related adolescents' body image (i.e., body shame and body surveillance). To capture a range of social media exposure, three types of social media popular among adolescents was examined: Twitter, Facebook, and Instagram. The current study also examines whether certain youth are more at risk for negative body image outcomes than others, by assessing whether adolescents who are particularly focused on others for approval (i.e. high self-monitors) show greater decrements in body image with greater social media use compared to other adolescents.

Social Media and Development

Several well-established theories within psychology and sociology argue that mass media, particularly media that involves high levels of consumer engagement, is extremely influential in shaping individuals' beliefs and behavior. Theories of social change and human development (Greenfield, 2009) suggest that a shift toward a more *Gesellschaft* (urbanized) environment is accompanied by an increase in technological development. These technological developments prompt cultural changes, such as an increase in valuing formal education and the acquisition of commerce and wealth, which can in turn shift developmental trajectories (Greenfield, 2009). Currently, the frequent amount of time early adolescents engage with social media in the United States highlights a salient technologically driven cultural change that likely impacts development.

Social cognitive theory of mass communication (Bandura, 2001) also articulates the important role of mass media in shaping individuals' cognitions and behaviors. Social cognitive theory stresses the importance of human agency and observational learning in understanding human behavior (Bandura, 2001). According to this theory, humans form cultural symbols, which communicate information about important values and appropriate behaviors. The media serves as one of our most salient cultural symbols, and individuals learn from these media

symbols and emulate what they see when determining their own thoughts and behavior, even when it is unintentional (Bandura, 2001). This becomes particularly relevant when thinking about social media, as it differs from conventional forms of media (i.e. television, magazines) in its structure and function.

While social cognitive theory (Bandura, 2001) suggests that media use is never passive, using social media involves active engagement in a more literal sense than conventional media. Elements of social media, defined here as participation in one or more social networking sites, date back to the initial stages of the Internet. However, few of the earlier mediums encompassed all the features associated with modern social media. Boyd and Ellison (2007) define social networking sites as:

Web-based services that allow individuals to (1) construct a public or semi-public profile within a bounded system, (2) articulate a list of other users with whom they share a connection, and (3) view and traverse their list of connections and those made by others within the system (Boyd & Ellison, 2007).

Of US teens online, 89% report using at least one social media platform, such as Facebook, Instagram, Snapchat, Twitter, Google+, Tumblr, and Vine (Lenhart et al., 2015). On social media, users can engage in a number of different behaviors and can construct an image of themselves for public display. While previous research suggests that people portray themselves differently on different social media platforms (i.e. what a teen posts on Twitter may differ from what that teen posts on Facebook) (Marwick & Boyd, 2011), the behaviors available on each type of social media are generally similar. The current study focused on three forms of social media that are currently popular among early adolescents: Facebook, Instagram, and Twitter, all of which meet the criteria for Boyd and Ellison's (2007) definition of social networking sites.

Facebook, largely considered the prototypical form of social media in 2017 (Davenport, Bergman, Bergman, & Fearington, 2014), facilitates interactions between the user and a community of “friends”. The official mission statement of Facebook suggests that, “People use Facebook to stay connected with friends and family, to discover what’s going on in the world, and to share and express what matters to them” (Facebook ‘About’, 2017). Twitter is a form of microblogging, and allows users to post up to 140 characters of written content, known as a “Tweet”. Instagram capitalizes on the visual aspect of social media through the posting and sharing of photos or videos and interacting with visual content posted by others. While these three social media platforms are different, they allow users to engage in many similar behaviors, such as choosing which content will appear in their newsfeed (collection of information they see upon logging in), posting photos, posting written content, “liking” or commenting on content posted by others, and sending personal messages to other users. As many adolescents report maintaining profiles on several types of social media at a time (Lenhart et al., 2015), the current study focuses on photo behaviors that are common across Facebook, Instagram, and Twitter.

The ability to share images on social media gives users the opportunity to post photos with the goal of receiving positive feedback (i.e., “likes”), and when the photo is of themselves, to receive feedback and reinforcement on their physical appearance. Adolescents can also control the amount of feedback they receive by how much content they post. In addition to providing users with an interactive and reinforcing component not present in conventional forms of media, social media also differs in its representation of personal connections. Specifically, social media networks often represent both individuals from a person’s real life (such as friends, family, acquaintances) *and* cultural figures (such as celebrities and athletes). This seamless integration of real-life peers and idealized celebrities may make it difficult for adolescents to disentangle what

is idealized and what is attainable. Thus, as social media introduces a number of contextual factors and behaviors not present in conventional forms of media, it becomes important to explore how using social media might affect body image outcomes for early adolescents.

Social Media and Body Image

During puberty, as sexuality becomes more salient, the perception of one's own physical appearance becomes increasingly important to self-worth (Harter, 1990). In addition to stress induced by normative physical changes, the mass media also plays a critical role in setting cultural standards for ideal body types, which are often unrealistic and emphasize the importance of thinness for girls and muscularity for boys (Swami et al., 2010). When the media sets the bar too high for most youth to reach, it can feel like a personal failure to those who try, which can contribute to negative body image (McKinley & Hyde, 1996). Links between conventional forms of media and negative body image are well established in the literature among both adolescent girls (Botta, 1999; Harrison & Hefner, 2006) and boys (Mulgrew, Volcevski-Kostas, & Rendell, 2014). More recent studies have explored these links on various forms of social media, and found similar results across Western cultures (Manago, Ward, Lemm, Reed, & Seabrook, 2015; Tiggemann & Miller, 2010; Tiggemann & Slater, 2013; Vandenbosch & Eggermont, 2013).

The current study examined two aspects of body image: body shame and body surveillance. Body shame can involve both negative feelings toward the body, such as hating certain parts of the body, and negative feelings toward the self, such as feeling weak for failing to achieve the ideal body type (McKinley & Hyde, 1996). Body surveillance involves an excessive monitoring of the outer appearance, a behavioral consequence of internalizing consistent experiences of objectification (Fredrickson & Roberts, 1997). Although body shame and surveillance are often conceptualized as part of an overall construct known as objectified

body consciousness (McKinley & Hyde, 1996), previous research suggests there is also value in examining the two constructs as separate components of body image (Manago et al., 2015; Moradi & Huang, 2008). Overall, it is important to distinguish what aspects of social media use may contribute to both body shame and body surveillance in different ways.

When adolescents interact with social media, it is likely they see content from people they know in real life, as well as cultural figures like celebrities. In Westernized societies, celebrities already embody an idealized appearance and further reinforce cultural standards of beauty. However, on social media, even peers have the ability to manipulate photos and engage in tightly-controlled impression management to promote a certain image. Manago and colleagues found that college students on Myspace, a popular social networking site at the time, presented idealized versions of themselves on their profiles, such as photos edited to make themselves look better (Manago, Graham, Greenfield, & Salimkhan, 2008). For many adolescents, this seamless integration of celebrities and idealized versions of real-life peers, which is unique to social media, presents a ripe environment for upward social comparison, or comparing the self to someone who is “better” in some respect. Social comparisons are especially influential when the subject of comparison is similar and viewed as relevant to the self, such as viewing pictures of peers (Festinger, 1954; Lockwood & Kunda, 2007). Opinions of peers also grow in importance across adolescence, and individuals are likely to look to others to guide social behavior (Harter, 1999).

Upward social comparisons can lead to negative self-evaluation, particularly when the basis for comparison is important to an individual’s self-worth, as is the case with physical appearance (Lockwood & Kunda, 2007). Thus, consistent exposure to idealized images of peers and cultural figures on social media may increase the risk of experiencing body shame. Previous

research suggests that adolescents do engage in appearance-based upward social comparisons on social media, and individuals had more negative feelings toward their own bodies after viewing social media profiles of attractive users versus unattractive users (Haferkamp & Kramer, 2011). This upward social comparison is not limited to appearance, and one study found that the longer individuals had used Facebook, the more they felt that other people were happier than them and that life overall was unfair (Chou & Edge, 2012). Taken together, evidence suggests that the nature of social media sets the stage for social comparison processes to occur, which may contribute to negative body image among early adolescents.

Certain specific behaviors on social media may also contribute to the development of negative body image. Objectification theory (Fredrickson & Roberts, 1997) suggests that women internalize consistent experiences of sexual objectification, defined as “the experience of being treated as a body (or collection of body parts) valued predominately for its use to (or consumption by) others” (1997, pg. 174). This internalization can result in excessive monitoring of the body’s outward appearance by taking another’s perspective, also referred to as body surveillance. Self-objectification occurs when individuals consistently value a third-person perspective of their body over their own personal perspective (Fredrickson & Roberts, 1997). In addition to detriments in motivation and performance, the tendency to self-objectify and engage in body surveillance reflects the internalization of cultural body standards and can further increase the risk of experiencing body shame and other negative outcomes (Noll & Fredrickson, 1998).

Behaviors that promote self-objectification, or adopting a third-person perspective toward the self, are common on social media. Such behaviors include posting “selfies” (photos one takes of oneself) and asking others to rate one’s looks. The act of taking and posting photos of oneself

on social media serves as a form of self-objectification and reinforces focusing on the body as an object for consumption. Previous evidence suggests that people post on social media with their network of friends in mind, which may further encourage experiencing the body from an outside perspective (Manago et al., 2008). In two separate samples of adolescent girls in Australia, time spent using Myspace and Facebook, and likely engaging in forms of self-objectification, predicted body surveillance, internalization of thin ideals, and drive for thinness (Tiggemann & Miller, 2010; Tiggemann & Slater, 2013). Similarly, in a sample of college-aged men and women in the US, involvement in Facebook predicted higher levels of body surveillance, which further predicted body shame (Manago, Ward, Lemm, Reed, & Seabrook, 2015). Other research has focused more specifically on actual behaviors on social media and found that the amount of time adolescent girls spent on photo activities on Facebook, not just the amount of time on Facebook overall, predicted the internalization of thin ideals, self-objectification, dissatisfaction with weight, and drive for thinness (Meier & Gray, 2014).

Taken together, previous research suggests that it is important to understand not only how frequently adolescents use social media, but also what specific behaviors they may engage in that could contribute to negative body image. While many studies exploring links between certain types of social media use have focused specifically on behaviors within one platform (i.e. Facebook or Myspace), the nature and popularity of a specific type of social media can change rapidly. Thus, the current study extended current findings by generalizing common behaviors that are available across three popular types of social media. It was hypothesized that not only time spent using social media, but also the degree to which early adolescents engage in self-objectification behaviors, would predict higher body surveillance and body shame.

Individuals at Risk

There are two factors that may relate to the relationship between social media use and body image: individuals' gender and the degree to which they engage in self-monitoring. First, boys and girls may differ in overall social media use and body image. Although negative body image is often characterized as an issue only relevant to women, evidence suggests men are also vulnerable to the influence of popular media on body image. The sexualization of men in the media has increased in recent years, and evidence suggests men can also experience the negative consequences of objectification usually equated with women living in westernized societies (Rohlinger, 2002; Michaels, Parent, & Moradi, 2013). Many studies examining links between social media use and objectified body consciousness (which includes both body surveillance and body shame) have found negative effects for both men and women in adolescent and adult samples (Manago et al., 2015; Slater & Tiggemann, 2010). Thus, because social media use is so common among adolescents, it is important to include both boys and girls when examining the impact of social media use on body image. However, based on previous research that demonstrated higher levels of negative body image among adolescent girls (Slater & Tiggemann, 2010), it was hypothesized that girls would have higher levels of body shame and body surveillance than boys overall.

Second, the degree to which adolescents engage in self-monitoring may moderate the relationship between social media and body image. The human relationship with media is reciprocal, in that people will seek out media that appeals to them, which can further reinforce certain thoughts and behavior (Levine & Harrison, 2009). Thus, individual differences among adolescents will affect how they use social media, and some adolescents may be more likely to engage in upward social comparison and objectify themselves on social media than others. Self-

monitoring represents an individual difference that may place certain adolescents at risk of interacting with social media in ways that can exacerbate negative body image. An individual's level of self-monitoring refers to a sensitivity to social cues and a willingness to react to them (Snyder, 1987). This involves not only looking to others as a way to gauge appropriate behavior, but also choosing actions that portray the self in a particular light based on that appraisal. Evidence suggests that people high in self-monitoring are more susceptible to peer pressure, and more easily swayed by the thoughts and actions of others (Perrine & Aloise-Young, 2004; Prislin & Kovrlija, 1992). Thus, adolescents with a higher tendency to self-monitor and seek approval from others may be hypersensitive to cultural ideals perpetuated by social media, and thus more vulnerable to experiencing body surveillance and body shame. It was hypothesized that the relationship between social media use and negative body image would be exacerbated among high self-monitoring adolescents relative to low self-monitoring adolescents.

Current Study and Hypotheses

The current study explored how the frequency of overall social media use and the frequency of specific self-objectification behaviors on social media predicted adolescents' body image. It was hypothesized that more frequent use of social media and greater engagement in more self-objectification behaviors (e.g., posting pictures of the self) would predict negative outcomes in both body shame and body surveillance. It was hypothesized that these behaviors would differ by gender, with girls experiencing higher body shame and surveillance overall. The current study also examined whether certain youth are more at risk for negative body image outcomes than others, by examining whether adolescents who are particularly focused on others for approval (i.e., high self-monitors) show greater decrements in body image compared to other adolescents. Specifically, it was predicted that self-monitoring would moderate the relationships

between social media use, self-objectification, and body image, such that the relationship would be stronger among individuals who are high (compared to low) on self-monitoring.

Chapter 2

METHOD

Participants

Participants were 142 seventh grade students from four public middle schools in a medium-sized city in the Upper South (population approximately 300,000). The sample consisted of 43 boys and 99 girls, with a mean age of 12.44 years ($SD = .61$). Data collection was approved by the authors' university Institutional Review Board (IRB) and permitted by principals at each school. Across all four schools, average enrollment during the 2015-2016 school year was 662 students. Our sample demonstrated considerable ethnic and socioeconomic diversity. Although nearly half of all participants identified as White/European American (45%), sizable portions of our sample reported being Latina/Hispanic (22%), Black/African American (19%), and multiracial (most of which identified as Black/White and Latina/White; 13%). The remainder of our sample identified as Asian (1%). All middle schools also reported having at least half of their students on free or reduced lunch, with a range of 49-85% of students qualifying for assistance. The racial/ethnic composition of participants from each school was largely representative of the school's racial/ethnic composition as a whole.

Procedure

As part of a larger study, participants were recruited through visits to the four participating middle schools. All seventh grade students were given parental consent forms to take home. To incentivize participants to return these forms, all students who returned signed consent forms—regardless of parental approval or disapproval of participation—were entered into a drawing for a \$50 Amazon gift card. Consent rates were low at some of the schools, ranging from 15-53% across schools. Importantly, consent rates were consistent with the

expectations of the principals, who noted their own difficulties with getting forms signed and returned. Very few parents actively declined participation (and low consent rates seemed to be driven by students failing to return signed forms). Those students with parental consent were then asked to sign an assent form before they completed the survey. Only students with a signed consent and assent form were allowed to take the survey. All testing took place during one class period on two separate days. Participants had the whole class time (approximately 50 minutes) each day to complete the survey.

Measures

Demographics. The demographic information collected from participants included gender, age, and ethnicity. Participants also reported their number of siblings, gender of siblings, parent education level, and parent occupation.

Frequency of Social Media Use. To assess time spent using social media, participants indicated whether or not they had accounts on certain social media websites or mobile applications (Instagram, Facebook, Twitter, and Tumblr) and how many hours they spend on each site in a typical week (0, 1-3, 4-6, 7-9, 10+). Each range of hours on the scale was assigned a score, 0 = 0, 1-3 = 1, 4-6 = 2, 7-9 = 3, and 10+ = 4. Only ten students used Tumblr, so it was not included in analyses. For this study, we summed the scores for time participants spent on Instagram, Facebook, and Twitter. Scores could range from 0 (indicating no time on social media in a typical week) to 12 (indicating a score of 4 on each scale, or 10+ hours a week across all three included platforms).

Self-Objectification Behaviors on Social Media. To assess engagement in self-objectification behaviors on social media, participants filled out a checklist indicating what they post about on social media. Self-objectification behaviors were defined as behaviors on social

media that likely involve thinking about the body or self from a third-person perspective. The checklist included 10 types of posts overall, six of which we defined as self-objectification behaviors, which included: “Asking for people to rate me or a photo of me”, “Pictures of me”, “Pictures of me with other people”, “Selfies of face only”, “Selfies of body and face”, “Selfies of body with no face”. For this study, we summed the amount of self-objectification behaviors participants engaged in for an overall score. Scores could range from 0 (indicating no self-objectification behaviors) to 6 (indicating engaging in all six types of self-objectification behavior).

Body Image. Participants completed two subscales, body shame and body surveillance, from the youth version of the Objectified Body Consciousness Scale (OBCS) developed by Lindberg, Hyde, and McKinley (2006). Items from the body surveillance subscale include, “I often compare how I look with how other people look” and “During the day, I think about how I look many times”. Items from the body shame subscale include, “I feel ashamed of myself when I haven’t made an effort to look my best” and “I feel like I must be a bad person when I don’t look as good as I could”. Participants were asked to indicate the level to which they agreed with each item on a Likert scale (1= *disagree strongly*, 2 = *disagree somewhat*, 3 = *agree somewhat*, 4 = *strongly agree*). Both of the subscales had good psychometric qualities (body shame $\alpha = 0.77$, body surveillance $\alpha = 0.82$).

Self-Monitoring. Participants filled out a modified version of the Junior Self-Monitoring Scale by Graziano, Leone, Musser, and Lautenschlager (1987). This measure captures adolescents’ tendencies to self-monitor, or look to social cues from others to guide behavior. The 19 items include, “I sometimes wear some kinds of clothes just because my friends are wearing that kind” and “I act better when my teacher is in the room than when my teacher is out of the

room”. Participants indicated how much each item was true for them by responding to each item on a Likert scale (1= *Not at all true*, 2 = *A little true*, 3 = *Somewhat true*, 4 = *Often true*). The measure has good psychometric qualities ($\alpha = .78$).

Chapter 3

RESULTS

Preliminary Analyses

Bivariate correlations, means, and standard deviations for each variable are presented in Table 1. The results of a series of one-way analyses of variance indicated there were no differences based on ethnicity in social media use, self-monitoring, body shame, body surveillance, or self-objectification behaviors on social media. A series of one-way analyses of variance also indicated that there were no gender differences in frequency of social media use, self-monitoring, body shame, or body surveillance. However, girls did engage in significantly more self-objectification behaviors on social media than boys, $F(1, 128) = 7.50, p < .01$.

Descriptive Analysis of Social Media Use

Overall, 79.9% of the sample had at least one social media account (excluding missing data from eight participants). For girls, 71.7% had Instagram accounts, 46.5% had Facebook accounts, and 14.1% had Twitter accounts. For boys, 62.8% had Instagram accounts, 51.2% had Facebook accounts, and 25.6% had Twitter accounts. For frequency of social media use, participants reported a mean score of 2.14 ($SD = 5.40$), which is approximately 4-6 hours using social media each week. Overall, participants reported engaging in a mean of 2.34 ($SD = 1.56$) self-objectification behaviors on social media. Of the six self-objectification behaviors, 11.3% of the sample reported “Asking for people to rate me or a photo of me” (14% of girls and 8% of boys, *n.s.* gender difference), 52.1% reported posting “Pictures of me” (63% of girls and 40% of boys, $\chi^2=5.66, p < .05$), 61.3% reported posting “Pictures of me with other people” (74% of girls and 48% of boys, $\chi^2=7.80, p < .005$), 49.3% reported posting “Selfies of face only” (59% of girls and 42% of boys, *n.s.* gender difference), 38.0% reported posting “Selfies of body and

face” (45% of girls and 33% of boys, *n.s.* gender difference), and 0.7% reported posting “Selfies of body with no face” (only 1 girl total).

Relationship Between Social Media Use and Body Image

To assess the primary hypotheses, we used SPSS to run two OLS regression models predicting participants’ (a) body shame and (b) body surveillance. The main effect variables entered into each model included gender, self-monitoring, frequency of social media use, and self-objectification behaviors on social media. To examine whether each social media variable was moderated by self-monitoring, two interaction terms were entered into the models: the interaction between self-monitoring and frequency of social media use and the interaction between self-monitoring and objectification behaviors. All of the variables entered into the regression models were mean-centered. The results of each regression model are shown in Tables 2 and 3.

Body Shame

Results indicated that the model accounted for a significant amount of variance in body shame, $F(6, 87) = 6.204, R^2 = .30, p < .001$. Specifically, higher levels of self-monitoring were a significant predictor of higher levels of body shame, $\beta = .51, p < .001$. As hypothesized, there was also a significant interaction between self-monitoring and frequency of social media use, $\beta = .21, p < .05$. Simple slope analysis using PROCESS macro (Hayes, 2012) indicated that social media use was associated with an increase in body shame for high (1 SD above the mean) self-monitors, $b = .10, t(98) = -2.48, p < .05$ (see Figure 1). There was no significant association between social media use and body shame for average self-monitors, $b = .02, t(98) = .87, p > .05$, or low (1 SD below the mean) self-monitors, $b = -.05, t(98) = -1.09, p > .05$. Gender,

objectification behaviors, and the interaction between self-monitoring and objectification behaviors were not significant predictors of body shame (see Table 2).

Body Surveillance

Results indicated that the model accounted for a significant amount of variance in body surveillance, $F(6, 87) = 7.817, R^2 = .35, p < .001$. Similar to the model predicting body shame, higher levels of self-monitoring were a significant predictor of higher levels of body surveillance, $\beta = .55, p < .001$. As hypothesized, higher levels of objectification behaviors on social media were a significant predictor of higher body surveillance, $\beta = .24, p < .05$. Specifically, early adolescents who engaged in more objectification behaviors (i.e., posing pictures of themselves) reported higher levels of body surveillance. Gender, frequency of social media use, and the interaction terms between self-monitoring, frequency of social media use, and objectification behaviors were not significant predictors of body shame (see Table 3).

Table 1

Means, Standard Deviations, and Correlations Between Variables

Measure	M(SD)	1	2	3	4	5
1. Frequency of Social Media	2.14(2.12)	-	.42**	.24*	.23*	.14
2. Self-Objectification Behaviors	2.34(1.56)	-	-	.13	.15	.23**
3. Self-Monitoring	2.24(.45)	-	-	-	.50**	.63**
4. Body Shame	1.66(.66)	-	-	-	-	.58**
5. Body Surveillance	2.18(.86)	-	-	-	-	-

Note: * $p < .05$, ** $p < .001$.

Table 2

OLS regression of adolescents' body shame, individual-level variables, and interactions.

	B	Std. Error	Beta	t	Sig (<i>p</i> value)
Independent Variables					
Gender	.01	.13	.01	.07	.945
Self-Monitoring	.75	.14	.51	5.27	.000
Frequency of Social Media Use	.02	.03	.07	.71	.481
Objectification Behaviors	.02	.04	.05	.50	.615
Self-Monitoring X Frequency	.19	.09	.21	2.01	.048
Self-Monitoring X Objectification	-.02	.10	-.03	-.24	.810

Model $F(6,87) = 6.20, p < .001$

$R^2 = .30$

Table 3

OLS regression of adolescents' body surveillance, individual-level variables, and interactions.

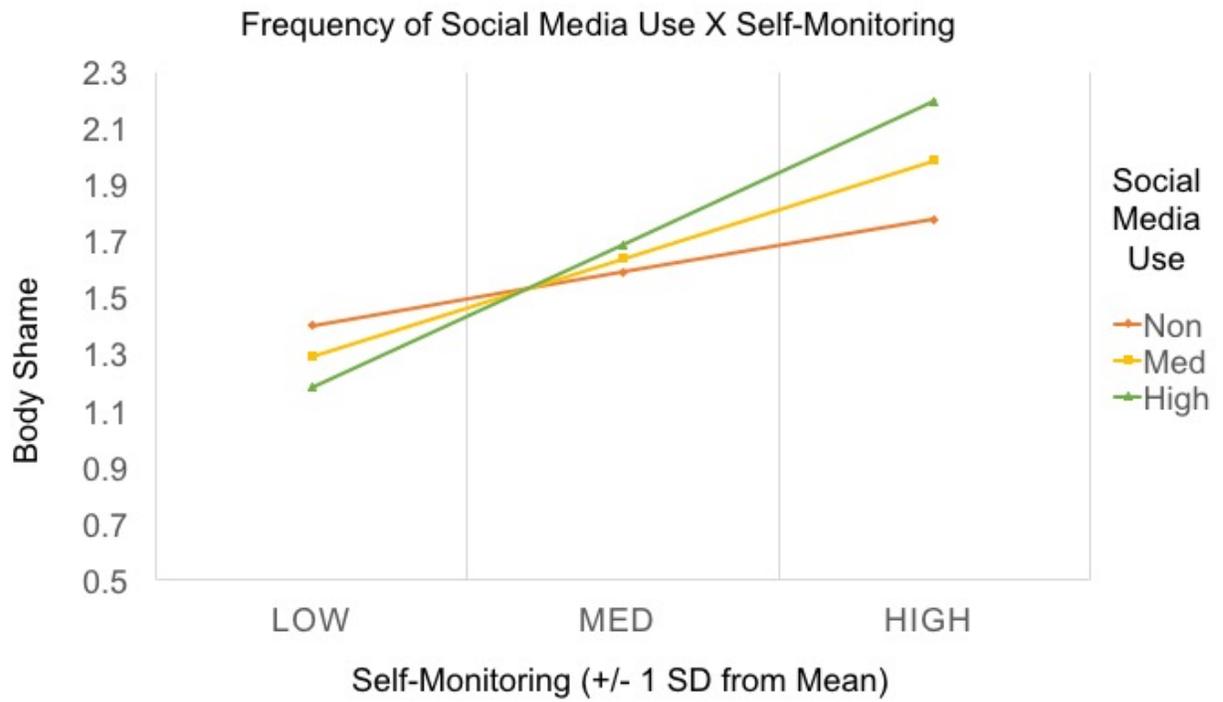
	B	Std. Error	Beta	t	Sig (<i>p</i> value)
Independent Variables					
Gender	.18	.17	.10	1.12	.267
Self-Monitoring	1.05	.18	.55	5.92	.000
Frequency of Social Media Use	-.04	.04	-.10	-1.04	.303
Objectification Behaviors	.13	.05	.24	2.49	.015
Self-Monitoring X Frequency	.04	.12	.04	.37	.712
Self-Monitoring X Objectification	.06	.13	.05	.47	.641

Model $F(6,87) = 6.20, p < .001$

$R^2 = .35$

Figure 1

Graph of the interaction between frequency of social media use and self-monitoring in predicting body shame.



Chapter 4

DISCUSSION

The current study investigated how social media use is related to adolescent body image among a sample of early adolescents. Specifically, the study examined both the frequency of social media use on three popular platforms (Twitter, Instagram, and Facebook) and self-objectification behaviors on social media as predictors of body shame and body surveillance. The current study also explored the moderating role of an early adolescents' level of self-monitoring, or the tendency to look to others for approval, in predicting adolescent body image. In general, the results supported the hypotheses, suggesting that both frequency of social media use and engaging in self-objectification behaviors on social media predicted negative consequences for body shame and body surveillance for some individuals. The results also indicated that an individual's level of self-monitoring moderates how social media use is related to body image.

Overall, approximately 80% of the sample of seventh graders had at least one social media account on Twitter, Instagram, or Facebook. On average, participants reported using social media 4-6 hours each week. Participants also reported engaging in slightly more than two types of self-objectification behaviors on average, with girls engaging in more self-objectification than boys. Specifically, the majority of girls (3 out of 4) and half of the boys posted pictures of themselves with other people. Approximately half of the sample posted pictures of themselves alone or of their face specifically. Despite public concerns, only one participant (a girl) posted a picture of just her body.

For frequency of social media use, the results indicated that more time spent using social media predicted higher levels of body shame among adolescents, but only for individuals high in self-monitoring. In other words, for individuals that are more likely to look to others for

approval, they felt worse about their bodies the more time they spent on social media. This body shame can take the form of either shame toward specific parts of the body, or shame toward the self for not achieving the ideal body type. By definition, high self-monitors are more sensitive to social cues and more willing to change their behavior based on the interpretation of those cues. This tendency to look outward for guidance and approval may introduce a vulnerability to the body standards perpetuated by culture. During puberty, when appearance becomes more central to self-worth, early adolescents high in self-monitoring may be looking outward for an understanding of how attractive bodies ought to look, and trying to adjust accordingly. However, cultural body standards (i.e. thinness for girls, muscularity for boys) are impossible for most people to achieve, and the failure to meet them can elicit body shame. The majority of social media involves image sharing, and these images often contain idealized and flattering photos of celebrities, cultural figures, and peers. Early adolescents high in self-monitoring may be more likely to compare themselves to these idealized images in an attempt to guide their image and behavior, resulting in the internalization of cultural body standards. At the very least, the results suggest that, when high self-monitors are engaging with social media, they are at a higher risk for experiencing body shame.

Regarding self-objectification behaviors, the current study also found that engaging in self-objectification behaviors on social media predicted higher levels of body surveillance, or excessive monitoring of the body's outer appearance. Specifically, early adolescents who reported posting different types of selfies, photos of themselves, and asking people to rate them on social media had higher levels of body surveillance than adolescents who posted fewer photos of themselves, over and above the amount of time they spent on social media. Behaviors that promote self-objectification, or adopting and valuing a third-person perspective toward the self,

are common on social media. Previous evidence suggests that people indeed post on social media with their audience in mind (Manago et al., 2008), which involves adopting the perspective of the observer. The reinforcing nature of social media allows users to receive feedback on their appearance, and whether this feedback is specifically elicited (by asking followers to rate a photo) or involves simply receiving positive comments or “likes” on a photo, the feedback serves as a form of psychological reward and reinforcement. The current study suggests that the ease and availability of this reinforcement may not only increase the frequency of self-objectification behaviors on social media, but also change how adolescents think about their bodies offline, and is associated with excessive monitoring of how the body looks to others.

The findings of the current study did not support the hypothesized gender differences in body shame and surveillance for boys and girls. Although girls did report engaging in significantly more self-objectification behaviors on social media than boys, gender did not predict body shame or body surveillance. Often, research on body image focuses on the body image concerns of girls, assuming that boys are less impacted by cultural standards of attractiveness (Perloff, 2014). The current findings, however, suggest that greater body shame and greater body surveillance can describe boys as well as girls. Future research efforts should aim to explore whether specific behaviors on social media differentially predict the body image of boys and girls.

The current study also examined individual differences in self-monitoring as a risk factor in experiencing body shame and surveillance. As described above, the frequency of social media use only predicted body shame for individuals high in self-monitoring. For individuals naturally more attuned to what others will think, frequent use of social media seems to increase their vulnerability to feelings of inadequacy in the form of body shame. Self-monitoring, as an

individual predictor, also accounted for a significant portion of variance in both body shame and surveillance. These findings suggest that high self-monitors seem to think about their bodies more often from an outside perspective, regardless of social media use. Overall, the results of the current study suggest it is important to take individual differences among adolescents into account, as they may place certain individuals at higher risk of engaging with social media in ways that could exacerbate negative body image.

Limitations and Future Directions

While the findings of the current study shed light on how social media use may be associated with adolescent body image, there are several limitations. The data presented is correlational, and longitudinal data is necessary to draw conclusions about the direction of the observed effects. Cultural pressures on body image begin well before adolescence, and by the time girls are 13, more than half (63.2%) are afraid of gaining weight (Micali, Ploubidis, De Stavola, Simonoff, & Treasure, 2014). This suggests that by the time adolescents are engaging with social media, many likely already have negative feelings toward their bodies. Thus, adolescents with preexisting attitudes about their bodies may approach and interpret their experiences on social media in different ways, resulting in different outcomes. Because social media use increases across adolescence (Lenhart, 2015), it will be important for future research to delve deeper into the direction of these effects and examine the influence of social media use on body image over time.

The current study also does not fully capture the rich, complex nature of social media use in its entirety. Social media users can engage in a multitude of behaviors online, and individuals will interpret these experiences in different ways. In an attempt to generalize across behaviors available on a number of popular social media platforms, the current study loses some of the

detail in all the behaviors available to individuals using specific types of social media. Most notably, previous research (e.g., Davenport, Bergman, Bergman, & Fearington, 2014) has looked at differences between passive use (consuming content posted by others) and active use (posting content for others to consume), while the current study only explores a particular type of active use. It will be important for future research to continue exploring the general differences between passive and active use, as well as consequences of specific behaviors within each category.

Finally, the current study only looks at two individual differences among participants: gender and self-monitoring. While gender was not a significant predictor in this particular analysis, it may still play an important role in understanding the relationship between social media use and body image. Future research should investigate gender differences in how adolescents approach social media (i.e. intentions for reading or posting certain content) and how they interpret what they see on social media (i.e. how certain posts make them feel about themselves). Similarly, while the present results supported the role of self-monitoring as a moderator and individual predictor for adolescent body image, future research should further explore how individuals who are high in self-monitoring may interact differently with social media than individuals who are average or low in self-monitoring. Above all, the results of the current study certainly suggest that individual differences will play an important role in understanding the consequences of early adolescent social media use and represents an important area for future research.

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