

Experimental Verification of Differences in Body Image Between Men and Women

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Abstract: This study measures the current and ideal body shape of the subject and the body shape of the most attractive other sex. The results confirm previous research which found that body dissatisfaction for females is significantly higher than for men. The research also found a mild positive correlation between age and ideal body shape for women and between age and the female body shape found most attractive by men.

Keywords: psychology, body image, physical attraction

Introduction

The most important indication of beauty for women in Western societies is the prevailing ideal of thinness. This ideal causes many women to desire an unrealistically thin body image (Lamb et al., 1993, amb et al., 1993). The preoccupation with thinness is a recent cultural development as the perception of female body shapes has changed significantly over the past decades. In the early 1940's it was found that others perceived people with thin ectomorph bodies as nervous, submissive and socially withdrawn. By the late 1980's this perception had changed, and thin people were considered to be the most sexually appealing (Turner et al., 1997, urner et al., 1997).

Several researchers have found that the female body depicted in the media has become increasingly thin. Using *Playboy* models as a proxy for what is perceived as beautiful, bust and hip measurements of centrefold models show that between 1960 and 1979 there was a trend towards non-curveousness of women. This trend was, however, reversed in the early 1990s, as visualised in Figure 1 (Garner et al., 1980, arner et al., 1980; Turner et al., 1997, urner et al., 1997; Sypeck et al., 2006, ypeck et al., 2006; Wiseman et al., 1992, iseman et al., 1992).

Parallel to the decrease in size of the ideal body shape for women, the dissatisfaction that women have with their body shape increased (Cash et al., 2004, ash et al., 2004). In recent years, females were found to be more likely to judge themselves overweight than males. This tendency was strongest in adolescent and young adult women (Fallon and Rozin, 1985, allon and Rozin, 1985; Tiggeman and Penning-

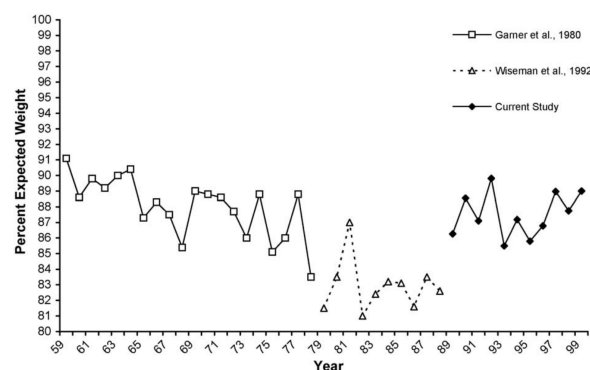


Figure 1. Percent normative weight of the Playmates as a function of time (Sypeck et al., 2006).

ton, 1990, iggeman and Pennington, 1990; Tiggeman, 1992, iggeman, 1992). Concerns with body image have been linked to a decrease in self-esteem and an increase in dieting among young women (Hill and Rogers, 1992, ill and Rogers, 1992). An increase in dieting among young women has been identified as an indicator of the onset of eating disorders such as *anorexia nervosa* and *bulimia nervosa* (Barker and Galambos, 2003, arker and Galambos, 2003; Fear et al., 1996, ear et al., 1996; Lamb et al., 1993, amb et al., 1993).

Numerous studies have been undertaken to study body dissatisfaction in recent years (Fallon and Rozin, 1985, allon and Rozin, 1985; Tiggeman and Pennington, 1990, iggeman and Pennington, 1990; Tiggeman, 1992, iggeman, 1992; Lamb et al., 1993, amb et al., 1993; Abel and Richards, 1996, bel and Richards, 1996; Byrne and Hills, 1996, yrne and Hills, 1996; Fear et al., 1996, ear et al., 1996; Cash et al., 2004, ash et al., 2004). They generally concluded that approximately one-third of men and almost three quarter of women rate their current figure as larger than ideal and that body dissatisfaction among women is much larger than for

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men. Fallon and Rozin, 1985 (allon and Rozin, 1985) also found that men judge the female figure they found most attractive as heavier than women's ratings of the ideal body shape.

Hypotheses

The first hypothesis tested in this study is that the ideal body shape for women (*ideal*) is thinner than their current self-assessed body image (*current*) and the ideal body shape for men is heavier than their current body shape.

$$H_{1w} : ideal - current < 0$$

$$H_{1m} : ideal - current > 0$$

Some research has also been undertaken to determine generational differences in body shape preferences (Lamb et al., 1993, amb et al., 1993). Tiggeman and Pennington, 1990 (iggeman and Pennington, 1990) researched body size dissatisfaction for children, adolescents and adults and found significant differences between the age groups. It should be noted that they used different types of body image scales for each age group. Lamb et al., 1993 (amb et al., 1993) compared two generations and found significance gender and cohort differences. These cohort differences confirm the recent increase in body dissatisfaction and eating disorders among mainly young women. In this study, the ideal image for females of different ages and the most attractive female body shape, as judged by men, will be determined for various age groups. The second hypothesis of this study is that there is a positive correlation between age and the ideal figure for females and between age and the female body image that men find most attractive.

$$H_2 : R_{ideal,age} > 0$$

Method

Participants

The participants of the survey are unsolicited visitors to the Monash University website. Most participants were students undertaking the psychology course. No socioeconomic information is available. The survey data contains 166 surveys completed between 3 January 2003 and 6 March 2004, of which 59 male and 107 female. Fourteen surveys were only partially completed and were not considered in the analysis. Table 1 shows the age distribution over the full data set. The cohorts taken into account for this survey are men and women between 16 and 30 years of age.

	< 16	16–30	31–50	> 50	Sum
Female	1	56	46	4	107
Male	0	29	24	6	59
Sum	1	85	70	10	166

Table 1

Age profile of survey participants

Materials

The questionnaire consisted of seven questions regarding body shape and a further five questions regarding age, gender and possible concerns regarding body shape and dieting. Question 1 (current body shape), 2 (ideal body shape) and question 6 (body shape of the other gender found most attractive) and the questions about gender and age of the on-line questionnaire were used for analysis. The remaining survey results have not been considered.

Participants were asked to compare a set of nine drawings, showing an increasing body size (Figure 2). Subjects were invited to score the first seven questions between one and nine. This type of survey has been widely used in similar research regarding body dissatisfaction (Abel and Richards, 1996, bel and Richards, 1996; Byrne and Hills, 1996, yrne and Hills, 1996; Fallon and Rozin, 1985, allon and Rozin, 1985; Fear et al., 1996, ear et al., 1996; Hill and Rogers, 1992, ill and Rogers, 1992; Lamb et al., 1993, amb et al., 1993; Tiggeman and Pennington, 1990, iggeman and Pennington, 1990; Tiggeman, 1992, iggeman, 1992).

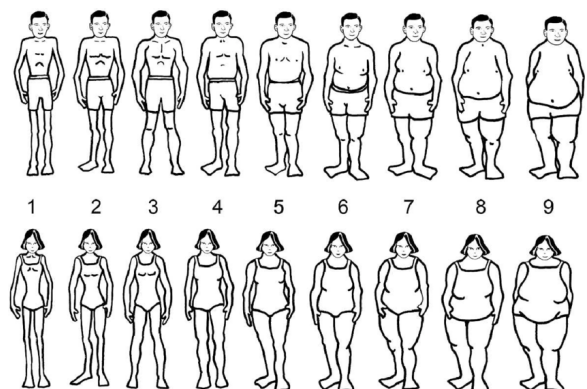


Figure 2. Body shape measurement scale.

The independent variables for this experiment are the gender and age of the participants. The dependent variables under consideration are the perceived current body shape (*current*), the ideal body shape (*ideal*) and the body shape of the other gender found most attractive (*other*).

Of the 16–30 cohort, 29 results were submitted by men and 29 by women. A random sample of 29 of the results provided by women and all responses submitted by men in this cohort were considered to ensure symmetry in the data. The

complete data set was used to determine the correlations between age and ideal female figures for both men and women.

Results

Body Image

The arithmetic mean and standard deviation of the three questions under consideration are summarised in Table 2. The results have not been tested for statistical significance. The results show that for women, the average current figure is larger than the average ideal, while for men the perceived current body shape is much closer to the ideal. The percentage of women that considered their current body shape larger than the ideal ($current - ideal > 0$) is 75.9, while only 37.9 of men thought that their current body shape was larger than their ideal.

	<i>n</i>	<i>Current</i>	<i>Ideal</i>	<i>Current – Ideal</i>
F	29	3.93(1.19)	3.03(0.94)	0.9(0.86)
M	29	4.14(1.55)	4.03(0.73)	0.1(1.37)

Table 2

Mean and standard deviation of body image

Attractiveness

The results also show that the ideal body shape for women increases as the age of the participant's increases, with a mild positive correlation between ideal body shape and age ($r = 0.3$). The female body shape that men find most attractive also changes slightly as age increases ($r = 0.33$). The ideal female body shape found attractive by men is slightly larger than the female ideal for the cohorts between 16 and 50 years of age, but significantly lower for the group older than 51 (Figure 3).

Discussion

The body dissatisfaction value for women found in this survey confirms previous research conducted in this area and is very close to the figure found by Fallon and Rozin, 1985 (Fallon and Rozin, 1985). There is thus no indication that the high body dissatisfaction among young women has been decreasing over the past twenty years. One of the reasons most often cited for this continuing body dissatisfaction among young women is the influence of the media.

The media often reply that they are merely reflecting the ideals of the current generation. Previous research has, however, shown that the press indeed plays a significant role in shaping, rather than reflecting, perceptions of the female body (Turner et al., 1997, Turner et al., 1997). There seems to be a circularity that needs to be broken to decrease body dissatisfaction among young women and reduce the occurrence of eating disorders. The only group that can take the first step

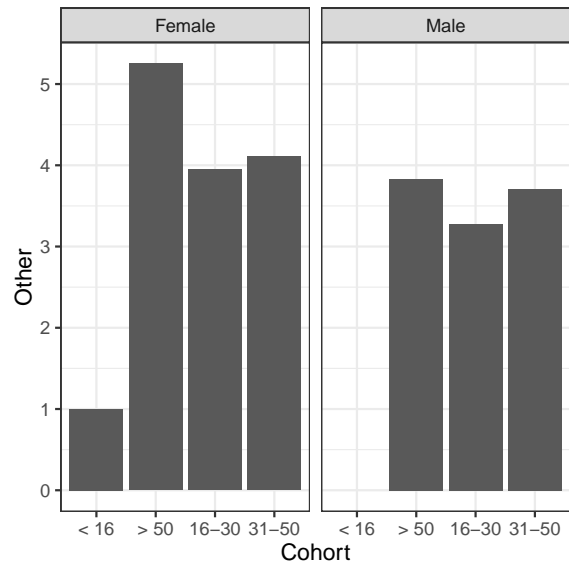


Figure 3. Attractiveness of the other gender for females and males.

is the media and the fashion industry. It is, however, doubtful that this will happen, given the commercial interests at stake.

The results of this study indicate that men are also slightly dissatisfied with their body shape. The ideal body image of men is slightly larger than their current shape (Fallon and Rozin, 1985, Fallon and Rozin, 1985; Tiggeman, 1992, Tiggeman, 1992). There are, however, differences in age cohorts for men. Younger men were shown to display positive body dissatisfaction older men a negative body dissatisfaction. If the outcomes of this survey regarding the body dissatisfaction of men are statistically significant, then there are two possible reasons for the difference in the results. The ideal body image for men could have decreased in the twelve years between this study and the most recent reference cited above. Another reason could be an increase in actual body size. The real body shape for men in this study is indeed slightly larger, and the ideal body shape for men is slightly slimmer than previously reported (Lamb et al., 1993, Lamb et al., 1993).

It has been argued previously that different body shape scales should be used to measure body dissatisfaction for the various age groups (Byrne and Hills, 1996, Byrne and Hills, 1996). Results can change significantly, depending on the type of body scale used (Tiggeman, 1992, Tiggeman, 1992). To test the sensitivity of the results of this study, the age group of 16–30 were divided in 16–21 and 22–30 (Table 3). When looking at the data for these two sub-groups, the results change only slightly. The age groups used in this study are broad, and further refinement could be achieved by using different body image scales.

Only the first part of the first hypothesis for this study has thus been confirmed. Further research into body dissatisfaction

	16–21	22–30
Female	0.76	0.97
Male	0.43	0.00

Table 3

Body dissatisfaction for age sub-groups.

tion among young men needs to be conducted to confirm the increase in body dissatisfaction measured in this study.

Fallon and Rozin, 1985 (Fallon and Rozin, 1985) theorised that the difference between ideal body shape for women and the female body shape found desirable by men exists because women are misinformed about the magnitude of thinness that men desire. This misinformation is, according to Fallon and Rozin, 1985 (Fallon and Rozin, 1985), caused by the prevalence of thin women in the media. They seem to assume that a woman's primary motivation for preferring thinner bodies is that they want to be attractive to men. This motivation is not necessarily the case, as the desire to be thinner could also be caused by peer pressure from other females. No conclusion can be drawn about the personal motives for wanting to be thinner from the results of this study, nor any of the other studies used for this study.

The results of this survey show that the ideal body shape increases as women get older. The female body shape found ideal by men also increases with age. This result could support the theory proposed by Fallon and Rozin, 1985 (Fallon and Rozin, 1985). As women get older, being attractive to the other gender plays a lesser role in their lives. Another reason could be that images in the media are mainly of thin young women. The jump in ideal body shape for women over 51 years of age is significant. The body shape found ideal by men of the same age does, however, only increase slightly. One could theorise that, as women reach menopause, they relax their quest for the ideal thin body, while men only marginally relax their preferences.

This study has confirmed most of the findings of earlier research. Further research into male body dissatisfaction is required to confirm the results of this study. Also, study into the motivation for young men and women to be thinner is needed to determine how this trend of increasing body dissatisfaction can be turned around.

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