Handbook of Prejudice, Stereotyping, and Discrimination

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HANDBOOK OF PREJUDICE, STEREOTYPING, AND DISCRIMINATION

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Anti-Fat Prejudice

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Prejudice against heavyweight people is prevalent, powerful, and potent. As with many other prejudices, the stereotyping, prejudice, and discrimination aimed at people on the basis of their weight can have a powerful effect on their lives. In this chapter, we review evidence revealing that differential treatment on the basis of weight occurs in all the major domains of heavyweight people's lives, with strong consequences for achievement, self-esteem, career opportunities, friendships, and physical and mental health (see Brownell, Puhl, Schwartz, & Rudd, 2005, for a book-length review of many of these issues). Prejudice against heavyweight people is much like other prejudices—it limits opportunities; is associated with a negative stereotype; and prototypically involves the domination of powerful, unstigmatized individuals or groups over stigmatized, less powerful individuals or groups. In many ways, however, prejudice against heavyweight people is different, special, and relatively unusual when compared to the more commonly discussed and researched prejudices of race and gender. There are simply a wide range of phenomena and practices associated with many prejudices that are not applicable to anti-fat prejudice, and there are aspects of anti-fat prejudice that often do not appear when considering racism and sexism. In this chapter, we consider some of the ways in which anti-fat prejudice is both similar to and different from the prejudices of race and gender.

We begin by reviewing research that shows the relative disadvantage of heavyweight people compared to leaner people. This review begins with some of the traditional dimensions examined in race and gender research (e.g., adverse effects on mental health, discrimination in the workplace). After making a case that anti-fat prejudice is a significant and important prejudice, we then discuss a variety of topics associated with anti-fat prejudice that are critical to consider, some of which are different from those associated with the prejudices of race and gender.

EFFECTS ON MENTAL HEALTH

Mistreatment on the basis of weight begins at an early age. Rejection of heavyweight people has been documented consistently among 3-year-olds (Cramer & Steinwert, 1998), elementary school children (Latner & Stunkard, 2003; Richardson, Goodman, Hastorf, & Dornbusch, 1961), and 7- to 9-year-old boys and girls (Kraig & Keel, 2001). Heavyweight children are less often nominated as friends (Staffieri, 1967), much less likely to be chosen as a best friend, and more likely to receive few or no friendship choices than leaner peers (Strauss & Pollack, 2003). There are a number of domains in which heavyweight children experience negative outcomes on a daily basis, the sum of which may have strong associations with deficits in mental health.
TEASING

Teasing by peers is alienating and leads to negative self-images, and poorer relations with one’s peers (Troop-Gordon & Ladd, 2005). In one study, 96% of heavyweight girls reported being the subject of hurtful comments or weight-related teasing (Neumark-Sztainer & Eisenberg, 2005). In another study, heavyweight children were more than 15 times as likely to be ganged up on and victimized by peers than were leaner children (Lagerspetz, Kjorkvist, Nerts, & King, 1982). In a sample of more than 4,700 middle and high school adolescents, nearly 30% of girls, and nearly 20% of boys reported being teased about their weight more than a few times a year (Neumark-Sztainer et al., 2002). However, 45% of heavyweight girls and 50% of heavyweight boys reported being teased much more often.

What are the repercussions or associations with this teasing? Teens who were teased were more likely to use diet pills, abuse laxatives, and binge eat than were those who did not experience teasing. Such teens were also more likely to report depression, suicidal thoughts, and suicide attempts; the effects seemed to be worse for girls than boys. That is, heavyweight girls who had been teased reported twice the level of suicidal ideation than did girls who had not been teased (51% vs. 25%). Although boys reported fewer suicidal thoughts overall, boys who had been teased reported more than three times the level of suicidal thoughts (13% vs. 4%; Eisenberg, Neumark-Sztainer, Haines, & Wall, 2006; Haines, Neumark-Sztainer, Eisenberg, & Hannan, 2006) than did those who had not been teased, even after controlling for body weight.

SELF-ESTEEM

The relationship between stigmatization and self-esteem is complex. Although many theories strongly connect negative physical characteristics (e.g., being heavyweight) with a negative self-view, this is often not the case (Crocker & Major, 1989). Thus, it is not surprising to learn that the body of empirical evidence examining the relationship between self-esteem and weight is not simple or clear. In the domain of body-related self-esteem, heavyweight adults have lower esteem than their leaner adult counterparts (French, Story, & Perry, 1995). This lower body-related esteem seems to be in part caused by the teasing (Thompson, Herbozo, Himes, & Yamamiya, 2005).

Despite the effects we have discussed thus far, the effects on global self-esteem do not seem to be as consistent or strong. For instance, in a meta-analysis conducted by Miller and Downey (1999), they found a reliable, significant, but modest correlation of $r = -.12$ between actual weight and self-esteem. This relationship is weak, but it is notable in that several studies have found no such significant correlation (see Crocker & Major, 1989). Miller and Downey also found a correlation between self-perceived weight and self-esteem ($r = -.34$), suggesting that low self-esteem may affect just how heavy a person may see himself or herself as.

The self-esteem of heavyweight people can suffer from discrimination, depending on other attitudes. Women who are both heavyweight and have anti-fat attitudes have significantly more negative self-esteem than do women who are heavyweight and do not have such attitudes (Crandall & Biernat, 1990). When rejected by a fellow student as a dating partner, heavyweight women tended to attribute this rejection to their weight, and they felt depressed, hostile, and anxious, and had lower appearance-based self-esteem than average-weight women, and women who were not rejected (Crocker, Cornwall, & Major, 1993).

One important source of self-esteem is the development of a social identity based on group membership (e.g., Brewer, 1991; Hogg & Abrams, 1990). One’s identity is flexible, and is typically constructed in such a way as to maximize one’s own positive distinctiveness (Tajfel & Turner, 1979). As a result, people tend to have positive views of their own groups, which, in turn, enhance their self-esteem. This ingroup bias is a pervasive and highly dependable research finding (Aberson, Healy, & Romero, 2000; Brewer, 1979; Crocker & Luhtanen, 1990). In a surprising set of findings, however, heavyweight people do not seem to show ingroup bias; hence, heavyweight people are cut off from one important source of self-esteem. Across seven different samples of college students, Crandall...
(1994) found no significant correlation between high levels of body mass index (BMI) and positive ratings of heavyweight people \( (r = -0.01, N = 1,384) \). The same pattern was found in two separate samples of college students collected by Crandall and Biernat (1990), and across separate samples of students from six nations on five continents. That is, there was no sign of a positive ingroup bias among heavyweight people. It is remarkable that heavyweight people do not show such a bias, as it is one of the most widespread and reliable of all social psychological phenomena (Scheepers, Spears, Doosje, & Manstead, 2006).

It is critical, in discussing issues surrounding mental health, to point out that research does not show that obesity results from poor mental health (Britz et al., 2000). That is, heavyweight people do not suffer unduly from mental disorders (e.g., van Hanswijck, de Jonge, van Furth, Lacey, & Walker, 2003), nor is there evidence that mental disorders lead to obesity. The psychological consequences of mistreatment of heavyweight people are real (see Brownell et al., 2005), but there is no reason to believe that heavyweight people are any more disordered than their leaner counterparts. Two exceptions to this include disorders related to body image and dieting (e.g., Hudson, Hiripi, Pope, & Kessler, 2007) and the fact that antipsychotic medicines often generate significant weight gains (Allison & Casey, 2001).

**EDUCATION**

Education is often described as the single most important factor in occupational and social class advancement (e.g., Argyle, 1994). At nearly every educational level, the heavier the student, the fewer the opportunities that he or she has. In the preteen years, heavyweight students primarily experience discrimination and harassment at school (e.g., Neumark-Sztainer, Story, & Faibisch, 1998). Across all grades, teachers exhibit anti-fat attitudes toward their students (Neumark-Sztainer, Story, & Harris, 1999).

Is weight associated with lower cognitive skills? The research evidence is very mixed. For instance, Datar, Sturm, and Magnabosco (2004) found that heavyweight kindergarteners and first graders scored lower on math and reading skills than their leaner peers. This relationship disappeared when social-class-relevant variables were controlled for, suggesting that weight may be more of a marker of socioeconomic class than a measure of lesser abilities. Crandall (1995), however, found no relation between BMI and high school grade point average in a U.S. national sample. Furthermore, Kuo et al. (2006) found that BMI was positively associated with a variety of cognitive skills among older adults, including reasoning tasks and visual-spatial processing speed. At best, then, the literature reveals that weight is not a reliable predictor of lower cognitive skills.

Canning and Mayer (1966) showed that despite equal grades, standardized test scores, and high school quality, heavyweight adolescents were underrepresented at several prestigious colleges and universities in the Northeast. Similarly, Pargman (1969) and Crandall (1991, 1995) found a significant underrepresentation of heavyweight students at Boston University and the University of Florida, respectively. Interestingly, in both cases, the universities that were examined did not require face-to-face interaction or photos for admissions, suggesting that the biasing factor is not a straightforward denigration of the heavyweight applicants. Once admitted, there is evidence that heavyweight students are sometimes judged more harshly and that they are more likely to be dismissed from college than are their leaner counterparts (Weiler & Helms, 1993).

Based on a nationally representative sample of high school seniors, Crandall (1995) showed that weight had no relationship to the enjoyment of the academic component of high school, high school grades, or the desire to attend college. The barriers to attending college do not seem to be in the academic preparation or motivation of the students. Rather, it seems that they may involve demographic correlates such as low socioeconomic status (SES) or the reliance on pernicious stereotypes that limit heavyweight individuals. Crandall (1995) showed that parents are significantly less likely to give financial support to their heavyweight children than their average-weight children for college (regardless of ability to pay), and this effect was particularly striking among daughters.
WORKPLACE

Heavyweight individuals face a great deal of prejudice and discrimination in the workplace (i.e., Fikkan & Rothblum, 2005; Rothblum, Brand, Miller, & Oetjen, 1990). These biases emerge across the entire employment cycle—from being recruited initially to being promoted among the ranks—and these effects are particularly detrimental for women (see Roehling, 1999 for a review). We consider, in some detail, how such biases affect three different contexts: hiring paradigms, promotion and pay scales, and customer service (treatment of customers).

HIRING PARADIGMS

A number of studies have examined perceptions and ratings of job applicants as well as the specific hiring recommendations that are made. This research shows that heavyweight applicants are perceived to have more negative work-related attributes (Polinko & Popovich, 2001) than those who are leaner. Additional research has shown a similar pattern with actual hiring decisions; that is, heavyweight job applicants are recommended for hire much less often than are their thinner counterparts, even when the credentials of both sets of candidates are equal (Larkin & Pines, 1979; Pingitore, Dugoni, Tindale, & Spring, 1994). In fact, the anti-fat stigma in hiring paradigms is so strong at times that it even seems to affect job applicants who are simply in physical proximity to heavyweight individuals. Hebl and Mannix (2003) found that a male job applicant was rated much more negatively and recommended for hire significantly less when he was seen with a heavyweight woman compared to an average weight woman, even if there was no relationship or association between the two beyond physical proximity.

PROMOTION AND PAY SCALES

Promotions are often based on the evaluations that employees receive and the opportunities that they are given. A number of studies show that heavyweight employees are evaluated much more negatively and receive more limited workplace opportunities than employees who are leaner. For instance, heavyweight salespeople were rated as being less punctual, enthusiastic, productive, competent, well-mannered, and trustworthy than were average-weight salespersons (Jasper & Klassen, 1990; Larkin & Pines, 1979; Zemank, McIntyre, & Zemanek, 1998) and they are assigned to less important and desirable sales territories (Bellizi & Hasty, 1998). Such differences emerge at higher levels of employment, too; for instance, research reveals that heavyweight managers are rated as less desirable and worthy of recognition than are managers who are leaner (Decker, 1987). There may be some truth to the fact that heavyweight individuals are not performing as well as their thinner counterparts; however, research testing this idea shows that part of the performance decrement arises from differences in training that heavyweight versus average weight individuals receive from others. That is, Shapiro, King, and Quinones (2007) found that the size (heavyweight or not) of individuals assigned to play the role of trainee significantly increased negative expectations held—and evaluations given—by trainers. Trainer attitudes and behaviors created a self-fulfilling prophecy, whereby trainers actually showed decrements in performance in some conditions.

Given these differences in evaluations—clearly linked to promotion decisions—it would make sense that strong differences be observed between the salaries that heavyweight and average-weight individuals earn. Such salary differences seem to exist for women alone (Pagan & Davila, 1997; Register & Williams, 1990; Sargent & Blanchflower, 1994; Sobal & Stunkard, 1989). In a study examining consequences of weight in adolescence and young adulthood, women who were heavyweight as adolescents or young adults ultimately had lower household incomes ($6,710 less per year) than did women who were leaner (Gortmaker, Must, Perrin, Sobol, & Dietz, 1993). For men, the relationship was not significant.
Another area in which prejudice and discrimination has been documented against heavyweight individuals is in the customer service that they receive. Recently, King, Shapiro, Hebl, Singleton, and Turner (2006) conducted three studies in which they examined the treatment from store personnel that heavyweight versus leaner individuals received when they entered retail stores. All three studies revealed that heavyweight individuals did not receive more overt forms of discrimination (i.e., there were no differences in being greeted, actually receiving help) but that they did receive significantly more subtle, interpersonal discrimination (i.e., less eye contact, less friendliness) than leaner individuals. These subtle and seemingly small amounts of discrimination still have severe consequences (Martel, Lane, & Willis, 1996; Valian, 1998). Furthermore, King and colleagues showed that such discrimination against heavyweight individuals also has negative ramifications for the organizations that are discriminating. That is, heavyweight individuals who have experienced such discrimination report spending less money at the store than they intended to, and that they are less willing to recommend the store to others and less likely to return for future patronage.

As a whole, then, there is consistent and discouraging evidence that heavyweight individuals face a great deal of discrimination in the workplace. Although we focused our review on only some aspects of the workplace, it is again important to note that they emerge across virtually every aspect of the employment cycle (see Roehling, 1999).

MARRIAGE, RELATIONSHIPS, AND FAMILY
Anti-fat bias has been well documented in a wide array of public domains, including the workplace, education, and health care institutions. Consequently, antidiscrimination policies have been implemented to discourage the unfair treatment of heavyweight individuals. Although outside the realm of legal regulation, anti-fat bias also enters into the private domain of personal relationships. This section focuses on the consequences of anti-fat bias in the areas of friendship, dating, and marriage.

FRIENDSHIP
Heavyweight people have fewer friends, are less popular, are less liked, have fewer social skills, and are lonelier than their leaner counterparts (e.g., Davison & Birch, 2004; Harris, Harris, & Bochner, 1982). Strauss and Pollack (2003) found that heavyweight adolescents were more likely to be socially marginalized and to be peripheral to social networks than were leaner adolescents. Other studies, however, find that heavyweight people are rated as being just as friendly, or even friendlier, than leaner people (Tiggemann & Rothblum, 1988). Friendships seem to be based in part on weight, with leaner men and women forming friendships with other lean people, and heavier women and men forming friendships with other heavy people (Crandall, Schiffhauer, & Harvey, 1997).

Heavyweight individuals may learn to compensate for their appearance by developing effective social skills (Miller, Rothblum, Felicio, & Brand, 1995). Miller et al. (1995) found that heavyweight women were able to compensate for the anti-fat prejudice of their conversation partners when they were aware that they were visible, and in these conditions were judged no differently in social competence than leaner women. New research is sorely needed to disentangle subjective biases (i.e., the negative stereotypes about heavyweight individuals) from objective differences (i.e., differences in social skills and talents as a function of weight).

DATING
In addition to the stereotypes that heavyweight people are unpopular and socially unskilled, heavyweight individuals are less preferred as sexual partners than leaner individuals (Chen & Brown, 2005). They also are rated as less attractive, less likely to be in a dating relationship, and less
deserving of an attractive romantic partner than their leaner counterparts (Cossrow, Jeffrey, & McGuire, 2001; Harris, 1990; Pearce, Boergers, & Prinstein, 2002). This is not to say that heavy-weight people do not date, but rather that they begin dating later as adolescents, date less often, and date less attractive partners than do leaner individuals (Cawley, Joyner, & Sobal, 2006; Pearce et al., 2002). Because social standards often equate physical attractiveness with thinness, it is especially difficult for heavyweight individuals, particularly women, to enter into romantic relationships (Regan, 1996). As with friendship, dating relationships reveal that anti-fat bias does not prevent heavyweight individuals from having successful, romantic relationships, but it does mean that they must overcome stereotypes, prejudice, and discrimination.

**Marriage**

Considering that the onset of dating is often delayed for heavyweight individuals given the difficulty they experience in entering into intimate relationships, it is not surprising that heavyweight individuals also might get married later in life relative to leaner individuals. There is some evidence to suggest that heavyweight adults have lower marriage rates than do their leaner counterparts; however, this may be limited to marriage rates among young adults (Fu & Goldman, 1996; Gortmaker et al., 1993). Once married, however, the quality of the marital relationship does not seem to be any different for heavyweight versus leaner individuals. Sobal, Rauschenbach, and Frongillo (1995) found no significant relationships between weight and marital satisfaction, conflict, or problems.

Some studies report greater marital instability in heavier than leaner people (Macías, Leal, López-Ibor, Rubio, & Caballero, 2004), but others show that a marriage may be more stable when one or both of the partners are heavyweight; obese women report less marital unhappiness (Sobal et al., 1995).

It is likely that there is as much variability in marriage success among heavyweight as leaner couples; partners’ weight does not seem to be the determining factor in relationship success. Rand, Kowalske, and Kuldau (1984) found marital improvement in some couples following surgery for extreme obesity and marital deterioration in others. Surgery may simply accentuate the existing quality of the marriage; when weight is changed by surgery, good marriages improve and bad marriages fail (Macías et al., 2004; Marshall & Neill, 1977).

Just as in friendship choice, lean people marry lean partners and heavy people marry heavy partners. Allison et al. (1996) found a significant correlation between the relative weight of each partner that cannot be otherwise explained by cohabitation, age similarity, or selective survival of marriages between couples more similar in relative weight. For some couples, one or both partners being heavyweight may serve a stabilizing or protective function in the marriage (Marshall & Neill, 1977). Some men say they prefer heavier women because the heaviness of their wives protects them from competition with other males and the possibility of abandonment (Marshall & Neill, 1977). Married heavyweight women may report less unhappiness than unmarried heavyweight women because they feel less pressure to lose weight than when they were seeking a partner, and because the affection in the marriage is less contingent on weight and appearance (Marshall & Neill, 1977; Sobal et al., 1995).

Forming and maintaining meaningful relationships is typically a challenge for everyone, regardless of weight. Being heavyweight can make the experience of meeting new friends and finding suitable dating partners even more difficult, especially for women. However, the final word on intimate relationships is not as dismal as in the public domain of anti-fat bias, nor as definitive. Despite stereotypes, heavyweight people often are socially skilled and well liked. They do find compatible dating partners, participate in romantic relationships, get married, and enjoy satisfaction with their partners.
HEALTH CARE

Much research has documented prejudice and discrimination in the health care system by examining the attitudes and behaviors of physicians, residents, medical students, and nurses. Many of the studies are 20 years old or more, but they converge in showing that all of these individuals tend to hold negative attitudes toward and discriminate against those who are heavyweight. Physicians hold heavyweight individuals responsible for their condition and attribute their failures at weight loss to gluttony and a general lack of cooperation and discipline (DeJong, 1980; Price, Desmond, Krol, Snyder, & O’Connell, 1987; Price, Desmond, Ruppert, & Stelzer, 1989; Young & Powell, 1985). Although one recent study showed that physicians and other health professionals may be somewhat less likely to show overt forms of anti-fat bias toward heavy patients than are nonhealth professionals, this study simultaneously revealed that physicians are equally likely to exhibit cognitive biases and deep-rooted stereotypes against heavyweight individuals (Teachman & Brownell, 2001). Such biases may be strengthened in physicians during their training, as they realize that heavier people often require more space, more surgery time, increased recovery times, and nonstandard sizes of equipment (Gallagher, 1996, 1998). Indeed, medical residents have reported liking their heavyweight patients less and believing that they are more emotional than their leaner patients (Blumberg & Mellis, 1985). Similarly, responses from medical students reveal that they believe heavyweight patients are not as likely to benefit from medical help, are more depressed and nervous, and would benefit from seeing a psychiatrist or a clinical psychologist more than would patients who are leaner (Bretytspraak, McGee, Conger, Whatley, & Moore, 1977).

Physicians not only perceive patients differently on the basis of weight, they also discriminate against those who are heavyweight (Hebl & Xu, 2001). For instance, when asked to make medical recommendations, physicians indicated that they would spend less time (approximately 9 minutes fewer) and would display more negative behaviors (i.e., having less desire to help, being less patient, displaying less positivity) toward heavyweight patients than those who were leaner. Fewer than 50% of physicians recommended responses (e.g., weight loss, nutrition counseling, exercise counseling) that would seem to be relevant for heavier individuals, recommendations that some health experts believe are the critical foundation for obesity health care (Galuska, Will, Serdula, & Ford, 1999; Wee, McCarthy, Davis, & Phillips, 1999).

In a study examining whether heavyweight patients detect this discrimination, Hebl, Xu, and Mason (2003) had patients exiting their appointments complete a brief questionnaire describing the physician–patient interaction they had just had. A gender difference emerged such that heavyweight women tended to feel that the quality of care they received was equal or better than that reported by women who were leaner; however, heavyweight men reported that the quality of their care was equal or worse than that reported by average-weight patients. Heavyweight patients are less likely to receive warm, friendly, and caring treatment by physicians. Because a friendly physician–patient relationship improves medical care, and an unfriendly one harms care (Gawande, 2007; Groopman, 2007), it is critical that heavyweight patients pay careful attention to the quality of their relationship with caregivers.

GENDER, ETHNICITY, CULTURE, AND SOCIAL CLASS

Weight matters for everyone, but the degree of importance differs according to its social context. Because prejudice of any sort depends on cultural categories, definitions, boundaries, and values, one must understand the pattern of prejudice across locations and targets.

GENDER

There is no doubt that weight is much more important to the self and social perception for women than for men. Women are more body conscious, are more concerned about (and dissatisfied with)
body shape and size, diet more often, and feel that their weight interferes with their social life more than men (e.g., Brownell et al., 2005; Harris, Walters, & Waschull, 1991; Rodin, Silberstein, & Striegel-Moore, 1984; Stake & Lauer, 1987; Tiggemann & Rothblum, 1988). Women’s dissatisfaction with their own bodies and a concomitant sense of unattractiveness in comparison to men is both reliable and increasing (Feingold & Mazzella, 1998). Concerns about weight and dieting are an important factor in the etiology of eating disorders, which disproportionately affect women (Cachelin & Regan, 2006; Striegel-Moore & Franko, 2006).

The social costs of weight, in terms of dating and marriage, affect women more than men (Cawley et al., 2006; Regan, 1996), and relational aggression is more common toward heavyweight girls than heavyweight boys (Pearce, et al., 2002). Salary differences associated with weight are mostly for women; men do not experience wage penalties until they exceed their ideal standard by more than 100 pounds (Maranto & Stenoien, 2000; cf. Frieze, Olson, & Good, 1990). The cost of weight to self-esteem is also significantly greater for women than for men (Miller & Downey, 1999; see also Crandall & Biernat, 1990).

Overall, the research consistently shows that weight affects women more strongly than men. The interpersonal costs (e.g., jobs, dating, friendship) and the intrapersonal costs (e.g., self-esteem, mental health, eating disorders) are all significantly greater for women than for men.

ETHNICITY AND CULTURE

The research focusing on anti-fat bias and different ethnic groups tends to find prejudice against most heavyweight people of all colors, although there are some important exceptions and variations. Most of the research on ethnicity and race focuses on the Black–White comparison, but there is also a growing literature on attitudes of Latinos, from Mexico, Central and South Americas. (There is a significant debate about the meaning of ethnicity and its relation to culture, and here we finesse the issue by conflating the distinction in this section.)

Black individuals tend to be more satisfied with their own body shape (Hebl & Turchin, 2005), rate heavyweight women as more attractive (Hebl & Heatherton, 1998), and are less likely to reject heavyweight women as potential partners (Harris, Walters, & Waschull, 1991) than are White individuals. The wage penalties for mildly obese White women (20% over ideal weight) appear to be more severe than those for severely obese (100% over ideal weight) Black men (Maranto & Stenoien, 2000). Black men have a larger acceptable standard for women's weight than White men, and in ratings studies, large Black men are stigmatized less than large White men (Hebl & Turchin, 2005). Although White women rate heavyweight women lower on a variety of dimensions, Black women generally do not show the same denigration of heavyweight women, especially when rating heavy weight Black women (Hebl & Heatherton, 1998).

For Mexican Americans, acculturation to the dominant cultural view is associated with greater concern about weight and more anti-fat attitudes (e.g., Ayala, Mickens, Galindo, & Elder, 2007; Olvera, Suminski, & Power, 2005). Hispanic parents appear to be tolerant of their heavyweight children (Rich et al., 2005) and are more accepting of obesity in adults than are White Americans (e.g., Anderson, Hughes, Fisher, & Nicklas, 2005).

There is evidence of body dissatisfaction, distorted body image, and dislike of fatness for both self and others in Mexico (Gomez-Peresmitre, Griselda, Liliana-Moreno, Sugey-Saloma, & Gisela-Pineda, 2001). In a comparison between students in Mexico City and students in the United States (in Florida and Kansas), the Mexican students reported more positive attitudes toward heavyweight people than the Americans did (Crandall & Martinez, 1996).

Crandall and colleagues (Crandall et al., 2001) compared anti-fat attitudes in six nations, three representing individualistic countries (Australia, Poland, and the United States) and three representing collectivist countries (India, Turkey, and Venezuela). Overall, fatness was seen as highly negative (e.g., “In our culture, being fat is considered a bad thing” and “In our culture, being thin is
an important part of being attractive”) in the individualistic countries, but was significantly more positive in the collectivist countries.

In a review of the connection between SES and obesity, Sobal and Stunkard (1989) found that obesity in women was associated with low SES in developed societies, but by contrast obesity was associated with high SES in developing nations. They reported that a “review of social attitudes toward obesity and thinness reveals values congruent with the distribution of obesity by SES in different societies” (p. 260). People in developing societies are significantly more positive toward obesity, and under many circumstances find it highly desirable (Brown & Konner, 1987). In general, one must argue that anti-fat prejudice is deeply embedded in the values, ideologies, and cultural norms and mores of a society (Crandall & Schiffhauer, 1998; De Garine, 1995).

**THEORETICAL ACCOUNTS OF ANTI-FAT PREJUDICE**

There are few theories specifically designed to account for anti-fat stigma. Such theories might clarify why anti-fat stigma is particularly severe, help predict contexts in which individuals are especially vulnerable to the stigma, and ultimately work to avoid or remediate the pernicious effects associated with being heavyweight. In this section, we briefly summarize modern theories of stigma and their potential applications to anti-fat stigma. For an extended discussion of many of these theories, we point interested readers to a recent chapter by King, Hebl, and Heatherton (2005).

**STEREOTYPE CONTENT MODEL**

This theory proposes that the content of stereotypes varies along two dimensions of more and less socially desirable traits: warmth and competence (Fiske, Cuddy, Glick, & Xu, 2002). For example, the stereotype of Asian American individuals is high on the competence dimension but low on the warmth dimension. The point at which a particular stereotype falls on the dimensions of warmth and competence is associated with specific affective reactions (i.e., prejudices). Across a large number of participants and multiple samples, Fiske et al. (2002) showed that the content of stereotypes for feminists, housecleaners, gay men and lesbians, and other stigmatized groups fell into four clusters along the dimensions of warmth and competence.

Although not originally included, this model could be extended to include anti-fat stigma. The stigma of obesity may be particularly negative because it is both visible and perceived to be controllable (Weiner, Perry, & Magnusson, 1988) and numerous studies show that being heavyweight is associated with perceptions of being lazy, undisciplined, and gluttonous (DeJong & Kleck, 1981; Harris, Harris, & Bochner, 1982; Hebl & Kleck, 2002). Such findings suggest that stereotypes about heavyweight individuals are likely to be low in both warmth and competence dimensions, a combination that results in the worst amount of stigmatization (Fiske et al., 2002). As a result of these dimensions, it is likely that affective reactions to heavyweight individuals consist of disgust and contempt.

**INTERGROUP EMOTIONS THEORY**

This theory proposes that emotions are central to the process of stigmatization and draws on appraisal and self-categorization theories (see Mackie, Devos, & Smith, 2000; Smith & Henry, 1996). More specifically, this theory suggests that prejudice is driven by specific emotional reactions to an outgroup that are generated by appraisals of the outgroup. When individuals feel that their ingroup is more powerful than an outgroup, their emotional response (i.e., anger) may lead to action tendencies that are manifested in discrimination toward members of that outgroup.

Although not originally developed to explain anti-fat stigma, this theory is useful in understanding potentially negative reactions toward heavyweight individuals. Societal ideals reveal that thinness has greater status in our society than does heaviness. Identification with the high-status
group (i.e., thin individuals) may trigger specific emotions (i.e., anger) toward the low-status group (i.e., heavyweight individuals) and ultimately result in both overt and subtle forms of prejudice and discrimination.

Predictions regarding anti-fat stigma that follow from an intergroup emotions approach may be contradictory to those made by the stereotype content model. Although both theories predict negative emotional reactions to heavyweight individuals, intergroup emotions theory predicts anger as the outcome, whereas the stereotype content model predicts disgust as the outcome. Although both emotions are negative in valence, these two emotions may have different sets of implications for remediating anti-fat stigma; strategies targeted to diminish anger might differ significantly from strategies designed to lessen disgust. Future research might consider which of these emotions—anger or disgust—are most salient in response to heavyweight individuals (see also Cottrell & Neuberg, 2005).

**Evolutionary Approaches**

There are a number of evolutionary approaches (i.e., sociofunctional, biocultural, disease) that focus even more intensely than the previously discussed theories on addressing why stigmatization occurs. Such approaches are grounded in the assumption that stigmatizing others can serve meaningful purposes to the stigmatizer (Neuberg, Smith, & Asher, 2000). For instance, Neuberg and his colleagues argue that stigmatization is rooted in an inherent biological need to live in effective groups to promote the survival of their genetic makeup. Individuals or groups who are perceived to threaten the survival of one’s ingroup will be stigmatized. Neuberg et al. argued that individuals will attempt to minimize perceived threat from stigmatized outgroups with specific emotional (i.e., prejudice) and behavioral (i.e., discrimination) responses. Thus, the process of stigmatization arose as a by-product of evolution, in which the stigmatizing individuals successfully minimized threat by rejecting others (see also Kurzban, Tooby, & Cosmides, 2001).

The renewed interest in evolutionary explanations for psychological phenomena encourages exploration of the biological functionality of the stigmatization of heavyweight individuals. On the one hand, proponents of this approach might argue that obesity is often genetically based and has been linked with severely negative health outcomes (see Wadden, Brownell, & Foster, 2002); thus, it may be functionally adaptive to avoid heavyweight individuals in the process of mate selection. Consistent with this approach, heavyweight individuals could arguably consume more resources than other individuals, making it more difficult to support the interests of the group as a whole. On the other hand, Kurzban and Leary (2001) suggested that a biocultural approach cannot explain the anti-fat stigma. They suggested that obesity is a relatively new condition in evolutionary terms in that it is only within the last several hundred years that leisure has been coupled with excess food. Thus, evolutionary theories may have limited value in understanding anti-fat stigma.

Park, Schaller, and Crandall (2007) suggested that humans possess a behavioral pathogen avoidance mechanism that allows them to avoid contagious disease. To the extent that this mechanism may be biased in favor of perceiving disease (and thus be overinclusive in the perception of threats), people might avoid others with a deviant weight (e.g., obese people). In a series of studies, they showed that people who are chronically concerned about infectious disease had more negative attitudes toward fat people, and that making infectious disease salient enhanced the rejection of obese targets.

**System Justification Approach**

System justification theory (SJT) suggests that individuals of both high- and low-status groups are motivated to reinforce and justify the status quo, or existing social arrangements. There are both cognitive reasons (e.g., need for cognitive closure, uncertainty reduction) and motivational reasons (e.g., belief in a just world, illusion of control) for participating in system justification (Jost & Banaji,
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1994; Jost, Pelham, & Carvallo, 2002). SJT may explain why heavyweight individuals perceive their weight negatively. That is, unlike members of some stigmatized groups (e.g., African American individuals) who maintain high self-esteem despite their stigma (Crocker & Major, 1989), heavyweight individuals tend to share the thoughts and feelings of their stigmatizers, view themselves negatively, and have low self-esteem (Crandall & Biernat, 1990; Crocker, Cornwell, & Major, 1993). This is probably because the attitudes, beliefs, and values that explain and justify anti-fat prejudice are fundamental and ubiquitous values, such as Protestant ethic, individualism, and belief in a just world (Crandall, 1994), which are socialized and internalized without regard to weight status. These ideologies, adopted as a part of socialization into the dominant value culture, in turn prohibit escape from justification beliefs that excuse and normalize anti-fat prejudice. One step toward remediation of anti-fat stigma may be to change the reinforcing thoughts, feelings, and values of heavyweight people themselves.

**JUSTIFICATION SUPPRESSION MODEL**

The justification suppression model (JSM) by Crandall and Eshleman (2003) proposes that individuals face two conflicting demands: (a) wanting to express their emotions and (b) wanting to maintain egalitarian values and self-image. The JSM suggests that prejudice is expressed as a function of three processes: genuine prejudice, suppression, and justification. The core emotional component of prejudice—genuine prejudice—is pure, original, and unmanaged negative feelings toward members of a devalued group. Because the expression of prejudice is at odds with an egalitarian self-image, suppression—motivated processes that seek to reduce the expression of prejudice—moderate this expression. However, affect has strong motivational properties, and the suppression of this motivation creates tension and discomfort, and hijacks attention and depletes energy. As a result, people will engage justification processes—any process that allows the expression of genuine prejudice, without internal guilt or anxiety, or other external punishments as a release for the pent-up emotion.

According to the JSM, the expression of prejudice is decreased when suppression is maximized and justification is minimized, and prejudice is most likely to be expressed when suppression is minimized and justifications are maximized. Prejudice suppression can be enhanced by extensive practice, egalitarian goal commitment, and having many cognitive resources (e.g., time, attention, energy).

The JSM suggests that genuine prejudice on the basis of weight can come from many sources—media effects, categorization of weight into ingroups and outgroups, competition over scarce resources, classical conditioning of emotions, direct tuition by families and peers, and so on. It is not particularly well-suited to asking “Why is there prejudice based on weight?” Instead, the JSM is best applied to anti-fat prejudice in examining suppression and justifications. Egalitarian values, which are negatively correlated with anti-fat attitudes (e.g., Crandall, 1994), are associated with motives to suppress prejudice (Crandall, Eshleman, & O’Brien, 2002; Katz & Hass, 1988). By contrast, factors that are associated with higher levels of anti-fat attitudes (e.g., Protestant ethic, attributions of responsibility, belief in a just world, negative stereotypes) are associated with greater expressions of anti-fat attitudes. The expression of prejudice and discrimination is complex, and any full account of prejudice on the basis of weight must look not only at the affective state of prejudice, but also the moderators, suppressors, and justifications of that prejudice.

**WHAT IS REMARKABLE, UNUSUAL, OR UNIQUE ABOUT WEIGHT-BASED PREJUDICE?**

Prejudice against heavyweight people is similar to gender and ethnic prejudice in many important ways. All of these characteristics are visible, almost immediately perceived, and usually central to the perception of the target (Schneider, 2004). There are powerful stereotypes about all of these groups, and across a wide range of contexts—workplace, friendships, education, health care—there
are many potential disadvantages to being a member of these groups. In all of these cases, the relative position of groups is closely connected to cultural values—the prejudice and discrimination against these groups is closely connected to religion, fundamental cultural values about work, pleasure, and justice. None of these prejudices can be understood alone, but rather must be understood as part of a complex cultural worldview and social ideology.

**People Are Responsible for Their Weight**

The stigma of weight differs from many other stigmas in important and interesting ways. Perhaps the most important difference is that weight is seen as mutable—the afflicted are seen as responsible for their condition (e.g., Tiggemann & Rothblum, 1997), and capable of becoming significantly leaner (e.g., Price et al., 1987). This kind of perception leads to attributions of responsibility, a circumstance that is highly predictive of anti-fat attitudes (Crandall, 1994; Crandall et al., 2001; Crandall & Horstman Reser, 2005; Weiner, Perry, & Magnusson, 1988). The fact that adiposity and body shape are mostly biologically determined, with a very large genetic contribution and a substantial cultural environment component, has not yet reached most members of the Western public (see Kolata, 2007). People are rarely personally blamed for their gender or race.

**Weight Is Escapable**

Although people rarely leave their gender or ethnic groups, many people actively seek to lose weight and their heavy weight status—in the United States, dieting and weight loss is a $55 billion-a-year industry (Marketdata Enterprises, 2006). One of the most important buffers against prejudice and discrimination for racial, religious, and ethnic minorities, and also for women is to identify strongly with their group, to connect with other members of their group, and build a positive and stable sense of self, connected to their group membership (e.g., Branscombe, Schmitt, & Harvey, 1999; McCoy & Major, 2003; Noel, 1964). However, when people are members of low-status or devalued groups, but see their status as malleable, with the availability of social mobility through permeable boundaries into a higher status group, they fail to identify with their own group, avoid identification with the group, and do not pursue strategies of social change and group improvement (Ellemers, 1991; Ellemers, van Knippenberg, de Vries, & Wilke, 1988). Although diets rarely work, and are not a realistic strategy for individual improvement, the belief that they could work cuts heavyweight people off from one of the most effective strategies for well-being—they do not show ingroup bias and do not strongly identify with their group (see Crandall, 1994).

**Social Norms About Expression**

There are powerful social norms in the United States and Canada that suppress the overt expression of prejudice against women and racial minorities (e.g., Devine, Plant, Amodio, & Harmon-Jones, 2002; Legault, Green-Demers, Grant, & Chung, 2007). These norms exist for anti-fat attitudes as well, but they are significantly weaker (see Crandall et al., 2002, Table 1). In some ways, research about anti-fat prejudice is more straightforward, in that it is not as hard to find people who will overtly agree with negative statements such as “I really don’t like fat people much” (Crandall, 1994). Comparable items measuring racial, ethnic, and gender items lost this unsubtle content many years ago (Biernat & Crandall, 1999). Although much of the research on racial prejudice—and plenty on gender as well—in the current century has focused on subtle and implicit biases and neurological phenomena (e.g., Nosek, 2007; Richeson, et al., 2003), and some of this has been applied to weight prejudice (Bessenoff & Sherman, 2002), it is still possible to study overt and unsubtle prejudice against fat people. Some prejudices seem to have gone underground, whereas others remain in plain sight. The field of stereotyping and prejudice needs a theory of social change—a focus many decades ago that seems to have been lost (Bettelheim & Janowitz, 1964).
IS OBESITY RELATED RESEARCH BIASED AGAINST THE NULL HYPOTHESIS?

When one reviews the kinds of effects discrimination researchers look at, we find education, employment, and marriage in many of them. Certainly there is discrimination in employment with respect to gender and race—these literatures are vast, reporting a wide range of effects. This chapter reviews some of these areas for weight-based prejudice, and reports many of the same effects. However, there is a kind of confirmation bias in these studies—researchers sensibly set out to locate effects that seem likely to be present. Common sense and past history guide researchers, as they should. In addition, however, there is also a confirmation bias that may be based in stereotyping—researchers look for differences among groups (based on gender, ethnicity, or weight) that are stereotype relevant. This reveals effects on employment and education, but we found surprisingly few decrements in personal relationships for heavyweight participants—this finding is interesting in part because it seems counterstereotypic.

However, stereotyping and prejudice researchers should not be so affected by stereotypes in defining the domains they study. We know very little about whether heavyweight people have different rates of drug use, alcohol abuse, crime, auto accidents, work, and farm-related accidents. Do we research areas where stigmatized groups are likely to excel? Do we define, a priori, those areas that matter to people’s lives, and then study them regardless of our preconceived notions of whether the domain is relevant? We suggest that scientists do not follow such a strategy, but that much could be learned by exercising it.

SUMMARY AND CONCLUSIONS

Prejudice based on weight affects an ever-growing body of people across many of the most important dimensions of life. It rivals all other prejudices in terms of breadth of impact, the number of people affected, and the lack of group-based strategies for social change. Any understanding of prejudice as a phenomenon must look across the wide range of targets of prejudice, and weight-based prejudice helps reveal the complexity and texture of prejudice.

REFERENCES


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