Implications of differing attitudes and experiences between providers and persons with obesity: results of the national ACTION study

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Implications of differing attitudes and experiences between providers and persons with obesity: results of the national ACTION study

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ABSTRACT

Objective: Our aim was to explore how differing attitudes, expectations, and experiences among people with obesity (PwO) and healthcare providers (HCPs) might have an impact on effectively implementing current obesity treatment guidelines.

Methods: Online surveys were conducted among 3,008 adult PwO (BMI ≥ 30 by self-reported height and weight) and 606 HCPs.

Results: PwO with weight loss ≥ 10% during the previous three years were more likely to have been diagnosed with obesity and to have discussed a weight loss plan with an HCP. However, only 21% believe HCPs have a responsibility to actively contribute to their obesity treatment. Further, HCPs tend not to effectively communicate the diagnosis of obesity, its nature as a serious and chronic disease, the full range of treatment options, and obesity’s implications for health and quality of life.

Regarding treatment goals, HCPs more often focus on BMI reduction, while PwO’s goals focus on improved functioning, energy, and appearance. HCPs also tend to underestimate their patients’ motivation to address their obesity. Twenty-eight percent of HCPs ‘completely agreed’ that losing weight was a high priority for PwO, whereas more than half of PwO ‘completely agreed’ that losing weight was a high priority for them. When asked how their HCP could better support them, PwO most often expressed a desire for helpful resources, as well as assistance with specific and realistic goal-setting to improve health.

Conclusions: HCPs can more effectively implement obesity treatment guidelines by more clearly and proactively communicating with PwO about their diagnosis, health implications of obesity, desired treatment goals, and the full range of treatment options. HCPs should understand that most PwO believe that managing their disease is solely their own responsibility. HCPs can also encourage more effective conversations by better appreciating their patients’ motivation and treatment goals.

INTRODUCTION

Obesity is a chronic, serious, and progressive disease associated with adverse health, social, and economic consequences [1–8]; however, several potential barriers to effectively treating obesity exist. People with obesity (PwO) are often associated with undesirable attitudes and stereotypes which have far-reaching adverse effects, including discrimination and prejudice in employment and educational settings, in close relationships, and during patient and healthcare provider (HCP) interactions [9–15]. This weight stigma is present even in health care settings where it affects quality of care through shorter appointment times, less discussion with patients, and fewer interventions [16,17]. Several studies show that patients with obesity are less likely to receive preventive services and exams including mammograms and pelvic exams and have increased missed diagnoses [18,19]. Weight bias may affect the quality of their obesity management as well; many PwO do not receive the diagnosis of obesity even after visiting their HCP [20,21]. Stigma in the healthcare setting can negatively impact patients’ weight loss experiences by reinforcing an internal sense of failure, encouraging avoidance of visits for treatment due to embarrassment, and leading to a reactive treatment plan that assumes noncompliance [11,15]. Perceptions of lack of motivation or desire to lose weight can also be a barrier, particularly when these beliefs about PwO are held by HCPs. According to a recent survey, HCPs believe patients with obesity are not very engaged in addressing their weight and that lack of patient perception of obesity as a health issue is one of the major barriers to patient engagement in obesity treatment [22].

Although clinical guidelines developed by various professional organizations including the American Heart Association...
Material and methods

This study, sponsored by Novo Nordisk Inc., was approved by an Institutional Review Board [31]. This study is registered with ClinicalTrials.gov, number NCT03223493. Separate surveys were used for each audience to measure obesity-related perceptions, behaviors, and potential barriers. The study samples were independent, i.e. PwO and HCPs surveyed were not matched pairs. A detailed methodological description has been previously presented [29].

Data were collected from 29 October to 12 November 2015 via online surveys using a cross-sectional, US-based stratified sample design. PwO inclusion criteria were: age ≥18 years, living in the US, and body mass index (BMI) of ≥30 kg/m² based on self-reported height and weight. We selected a BMI ≥30 to minimize the effects of self-reported weight and height (studies support the conclusion that self-reported height and weight underestimate BMI [32–34]). Thus, with the inclusion criterion of BMI ≥30 calculated from self-reported height and weight, the actual BMIs of subjects enrolled in this study are likely to skew somewhat higher across the study population. PwO were categorized into those who self-reported a weight loss of ≥10% in the past three years and maintained that weight loss for at least one year, and those who self-reported weight loss of <10% in the past three years or reported a weight loss of ≥10% but did not keep the weight off for at least one year. PwO were also categorized by obesity class (Class I: BMI 30–< 35, Class II: BMI 35–< 40, Class III: BMI≥40) for analysis purposes [35].

HCP inclusion criteria included: employment in a U.S. facility (except Vermont to comply with Sunshine reporting requirements), spending a minimum of 70% of professional time in patient care, seeing ≥100 patients during the previous month with ≥10 patients in need of weight management, and practicing 2–35 years in their current role; board certification was additionally required of physicians. To reduce potential selection bias, respondent-level, individual weighting was applied to the PwO sample. Using an established weighting methodology [36], final data were weighted to representative demographic targets for age, household income, ethnicity, race, Hispanic descent, gender, and U.S. region based on the 2010 U.S. Census [37]. Participant characteristics are reported for the final unweighted sample. All other results are weighted unless otherwise specified.

The PwO survey covered a wide range of topics on obesity including information on PwO weight history, weight management attempts and experiences, weight management goals, motivators to lose weight, barriers to weight loss, obesity awareness and perceptions, attitudes towards obesity, tools and resources helpful in weight management efforts, support structure, employer wellness programs, and societal perspectives on obesity. Another key survey topic was the interaction and discussion that PwO have with their HCP. As not all of the PwO in our study had discussed weight with an HCP in the past five years, those who did not have a conversation with their HCP were asked questions related to what they would like their HCP to do regarding their weight and weight management. PwO were asked to identify the type of HCP with whom they discussed their weight most often in the past 5 years (or would most like to discuss weight for those who have not had a discussion). Respondents chose from a list of physician specialties, nurse, nurse practitioner, physician assistant, registered dietician, diabetes educator, social worker/psychologist, nutritionist, and were also able to write in another type of HCP; PwO were then asked questions about the interaction with this HCP. The HCP survey covered similar topics and were asked about their interactions and discussions with their patients who had a BMI greater than 27 and at least 1 comorbidity or a BMI greater than 30 with or without comorbidities. Five-point end-anchored Likert scales assessed agreement, where ‘1’ meant ‘do not agree at all,’ and ‘5’ meant ‘completely agree.’ Responses of 4 or 5 were coded and reported as ‘agree’ unless otherwise noted.

Statistical analysis

Descriptive statistical analysis (means, frequencies) was performed using SPSS 15.0.1 [38]. Tests of differences (chi square, t-tests) within respondent types were performed using SPSS tables; additional analyses were performed using Stata/IC 14.1.
Statistical significance was set at $p < 0.05$, using 2-tailed tests. Multiple test corrections were not applied to statistical tests, as this research was exploratory and descriptive in nature.

**Results**

**Description of PwO and HCP samples**

Characteristics for PwO ($n = 3,008$) and HCP ($n = 606$) are displayed in Table 1.

### Table 1. Sample characteristics (unweighted).

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>People with Obesity (PwO)</th>
<th>Healthcare Providers (HCPs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>($n = 3008$)</td>
<td>($n = 606$)</td>
</tr>
<tr>
<td><strong>Sex</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>1,378 (46)</td>
<td>305 (50)</td>
</tr>
<tr>
<td>Female</td>
<td>1,630 (54)</td>
<td>301 (50)</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean Age in Years (SD)</td>
<td>54.4 (14.3)</td>
<td></td>
</tr>
<tr>
<td><strong>BMI Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underweight</td>
<td>1,304 (43)</td>
<td>59 (10)</td>
</tr>
<tr>
<td>Normal range</td>
<td>298 (49)</td>
<td></td>
</tr>
<tr>
<td>Overweight</td>
<td>201 (33)</td>
<td></td>
</tr>
<tr>
<td>Class I (BMI 30–&lt;35)</td>
<td>896 (30)</td>
<td>16 (3)</td>
</tr>
<tr>
<td>Class II (BMI 35–&lt;40)</td>
<td>808 (27)</td>
<td>16 (3)</td>
</tr>
<tr>
<td>Class III (BMI ≥ 40)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BMI</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean BMI (kg/m$^2$) (SD)</td>
<td>37 (6)</td>
<td>25 (5)</td>
</tr>
<tr>
<td><strong>Weight Loss Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight Loss ≥ 10%/Maintained</td>
<td>331 (11%)</td>
<td></td>
</tr>
<tr>
<td>Weight Loss &lt; 10% and/or Not</td>
<td>2,677 (89%)</td>
<td></td>
</tr>
<tr>
<td>Maintained</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Provider Specialty</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family Practice</td>
<td>298 (49)</td>
<td></td>
</tr>
<tr>
<td>General Practice</td>
<td>49 (8)</td>
<td></td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>241 (40)</td>
<td></td>
</tr>
<tr>
<td>Bariatric Surgery</td>
<td>1 (0)</td>
<td></td>
</tr>
<tr>
<td>Endocrinology</td>
<td>8 (1)</td>
<td></td>
</tr>
<tr>
<td>Bariatrics/Obesity Medicine</td>
<td>9 (2)</td>
<td></td>
</tr>
</tbody>
</table>

Table footnote: SD, standard deviation; BMI, body mass index; Weight Loss > 10%/Maintained, lost 10% body weight in the past 3 years and kept it off for at least 1 year; Weight Loss < 10% and/or Not Maintained, has not lost 10% body weight in the past 3 years and/or kept it off for at least 1 year.

More than half of PwO ‘completely agreed’ that losing weight is a high priority for them compared to only 28% of HCPs who believed the same regarding their patients (Figure 1). PwO were also more motivated to lose weight than HCPs perceived (Figure 1). PwO appeared to be interested in treating their obesity as the majority (62%) reported they were seriously considering taking action to lose weight, intent on taking action to lose weight within the next month, or had committed to a plan to lose weight (Figure 2). When asked about the factors that have the greatest influence on their desire to lose weight, PwO were most likely to cite wanting to feel better physically (71%), wanting to be in better shape (71%), and general health concerns (53%). HCPs were presented with the same list of factors and asked what they believed most motivated patients to lose weight; PwO were less motivated than HCPs believed by a specific medical event (13% PwO vs. 79% HCPs), wanting to stop taking medication for a weight-related health condition (25% PwO vs. 54% HCPs), an upcoming social occasion or event (13% PwO vs. 62% HCPs), and financial incentives such as lower co-pays or insurance premiums (5% PwO vs. 26% HCPs).

Most PwO (82%) believed that weight management is completely their responsibility, as previously reported [29]. Only 19% of PwO reported that ‘encouragement, support and recommendations from an HCP’ influenced their desire to lose weight, which may be related to thinking that weight is completely within their control, a belief shared by almost half of PwO (47%). Many PwO believed they could lose weight if they set their mind to it (Figure 1), but only about half (56%) agreed they know how to lose weight. Less than one quarter of PwO (21%) agreed their HCP has a responsibility to actively contribute to a successful weight loss effort.

### Clinical guidelines for effective obesity care – evaluation, diagnosis, and communication

Because PwO tended to underestimate their weight, with the majority of Obesity Class I identifying themselves as ‘overweight’...
Table 2. Perception of current weight compared to obesity class.

<table>
<thead>
<tr>
<th>Self-perceived description of current weight (weighted)</th>
<th>Obesity Class I (BMI 30.0–34.9)</th>
<th>Obesity Class II (BMI 35.0–39.9)</th>
<th>Obesity Class III (BMI 40.0 or greater)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(n = 1,304 unweighted)</td>
<td>(n = 896 unweighted)</td>
<td>(n = 808 unweighted)</td>
</tr>
<tr>
<td>Total*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'Normal weight'</td>
<td>42 (4)</td>
<td>10 (1)</td>
<td>3 (&lt; 1)</td>
</tr>
<tr>
<td>'Overweight'</td>
<td>846 (71)</td>
<td>378 (44)</td>
<td>148 (18)</td>
</tr>
<tr>
<td>'Obese'</td>
<td>305 (24)</td>
<td>439 (51)</td>
<td>424 (52)</td>
</tr>
<tr>
<td>'Extremely Obese'</td>
<td>4 (&lt; 1)</td>
<td>38 (4)</td>
<td>232 (29)</td>
</tr>
<tr>
<td>Male*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'Normal weight'</td>
<td>36 (5)</td>
<td>5 (1)</td>
<td>1 (&lt; 1)</td>
</tr>
<tr>
<td>'Overweight'</td>
<td>485 (73)</td>
<td>204 (49)</td>
<td>58 (17)</td>
</tr>
<tr>
<td>'Obese'</td>
<td>139 (21)</td>
<td>192 (46)</td>
<td>202 (58)</td>
</tr>
<tr>
<td>'Extremely Obese'</td>
<td>0 (0)</td>
<td>12 (3)</td>
<td>85 (25)</td>
</tr>
<tr>
<td>Female*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'Normal weight'</td>
<td>6 (1)</td>
<td>5 (1)</td>
<td>2 (&lt; 1)</td>
</tr>
<tr>
<td>'Overweight'</td>
<td>361 (67)</td>
<td>173 (38)</td>
<td>90 (19)</td>
</tr>
<tr>
<td>'Obese'</td>
<td>166 (31)</td>
<td>246 (55)</td>
<td>223 (48)</td>
</tr>
<tr>
<td>'Extremely Obese'</td>
<td>4 (1)</td>
<td>26 (6)</td>
<td>147 (32)</td>
</tr>
</tbody>
</table>

*P < .001

BMI, body mass index.

Table 2, it is important for HCPs to directly address patients' weight status. Although PwO may not recognize their obesity status, they are dissatisfied with their weight – PwO were more likely to disagree that they were happy with their current weight than HCPs reported regarding their own patients (80% PwO vs. 55% HCPs). Most PwO (85%) were at least ‘somewhat’ worried about the effect of their weight on their future health.

PwO with ≥10% maintained weight loss for at least one year were more likely to report having ever been diagnosed as ‘overweight,’ ‘obese,’ or both rather than being given no diagnosis or being unsure of a diagnosis (68% vs. 31%). Those reporting being diagnosed were significantly more likely than those not diagnosed to report a greater percentage of weight loss from their maximum weight three years ago (6.7% vs. 5.1%).

More than two-thirds of HCPs (67%) were ‘very’ or ‘extremely’ comfortable discussing weight management with their patients and the majority of PwO who had discussed their weight with their HCP agreed they feel comfortable talking to their HCP about their weight (62%). At least half of these PwO agreed their HCP listens carefully to what they say about their weight,
listens to their concerns, and understands the difficulties of weight management (Figure 3). PwO who had discussed weight with their HCP felt supported (37%), hopeful (33%), and motivated (25%) after these discussions (Figure 4). Among those who had not discussed their weight with their HCP in the past five years, the main reason reported by PwO for not seeking assistance from their HCP is a belief that it is their own responsibility to manage their weight (44%). Embarrassment and lack of motivation to lose weight were infrequently reported as barriers (15% and 21%, respectively), which is contrary to the perception of HCPs in our study as previously reported [29]. However, about half of those who have not discussed weight with an HCP (52%) reported that they would like their HCP to bring up their weight during appointments and agreed they would feel comfortable talking to their HCP about their weight (57%).

Approximately half of PwO (54%) reported speaking to an HCP about their weight in relation to their health within the past 6 months, but just over 4 in 10 agreed their HCP clearly outlines the effect their weight has on their overall health. On average, HCPs reported discussing the impact of overweight/obesity on their patients’ health at 62% of appointments with patients in need of weight management and that these discussions comprised 24% of a typical wellness visit for these patients. Despite these conversations, just over half (55%) of PwO reported being formally diagnosed by their HCP as ‘obese.’

While almost all HCPs (95%) reported discussing trended weight with their patients, less than half of PwO who have discussed weight with their HCP (47% with Class I obesity, 40% with Class II obesity, and 41% with Class III obesity) reported their HCP discussing their recorded weight over time. Among HCPs who discussed trended weight with their patients with obesity, weight history was most often discussed verbally (64%). Fewer HCPs used a visual aid when discussing weight history with their patients; only 42% showed weight history on the computer screen, and an even smaller 18% provided a printed graph or chart. Less than one-third of HCPs (30%) asked their patients to share their history of weight gains and losses over time. Although HCPs claimed to recognize their patients’ previous weight loss efforts ‘all of the time’ (78%), only 39% of PwO reported their HCP recognizing their previous efforts this frequently (Figure 5).

When asked how their HCP could better support them in achieving a healthy weight, PwO most often selected ‘provide me with helpful resources,’ ‘help me set specific goals to improve my health,’ and ‘help me to set more realistic goals to improve my health.’ PwO reported that setting realistic goals which seem possible to reach (51%), having a
customized weight loss/management plan (34%), support from their HCP (29%), and a better understanding of the physiology of obesity (23%) would improve their chances for success in their weight management efforts.

Clinical guidelines for effective obesity care – interventions

Current obesity management guidelines outline treatment approaches including dietary therapy in line with patient preferences, lifestyle and behavioral counseling, and pharmacotherapy and/or bariatric surgery for appropriate patients. However, few PwO (21%) agreed their HCP helped them set clear weight management goals or create a clear plan for managing their weight. This is an important step as those with substantial weight loss were significantly more likely to report having spoken to their HCP about a weight loss plan (45% vs. 37%).

Although few PwO indicated that losing a specific percentage of their body weight was important to achieve as part of their weight management, many (40%) reported being satisfied only if they could lose more than 20% of their body weight, and only 22% would be satisfied with losing up to 10% of their body weight. General improvements in diet and exercise are the predominant strategies HCPs recommended for their patients in need of weight management, including general improvement in eating habits/reducing calories (58%) and generally being more active/increase in physical activity (57%). Fewer HCPs reported recommending specific diets or diet programs (27%), visits to a dietician/nutritionist (27%), or a formal exercise program/gym membership/personal trainer (23%). HCPs were least likely to recommend prescription (11%) or over-the-counter (4%) weight loss medications or visiting a non-surgical weight loss specialist or clinic (9%). PwO who discussed their weight with their HCP reported conversations similarly; few reported discussing specific diet or exercise programs or other interventions such as counseling, pharmacotherapy, or weight loss surgery (Figure 6).

Despite the similarities in approaches reported by HCPs and PwO, the two groups had different perceptions of these treatment discussions – more than two-thirds of HCPs reported discussing the pros and cons of each treatment frequently, while only about one-third of PwO reported that their HCP often does so. Almost all HCPs said they asked their patients which weight loss treatment or approach they prefer and took their patients’ preferences into account when making treatment decisions at least some of the time with 78% saying they did this ‘all of the time’; however, only 41% of PwO felt their HCP did this ‘all of the time’ (Figure 5). Some PwO (15%) reported their HCP did not provide any weight management suggestions at all after their most recent discussion and few PwO (24%) reported that their HCP scheduled a follow-up appointment related to their weight after their last visit.

When weight management plans were implemented, HCPs tended to predominately monitor the effectiveness of their patients’ weight management strategies using metrics of less importance to PwO. Although changes/improvements in comorbidities or other illnesses were commonly used by HCPs to measure the success of weight management strategies (63%), they were most likely to measure their patients’ success through a reduction in BMI (81%) and amount of weight lost in pounds (72%); less than half (46%) reported using improvement in patient functioning to monitor effectiveness. This approach is in contrast with the important outcomes reported by PwO including improving or preventing health conditions (63% and 70%, respectively), having more energy (64%), and improving their appearance (60%).

Discussion

Vital to the effective implementation of treatment guidelines for obesity is better understanding the attitudes, expectations, and experiences of the key stakeholder, PwO, and how they differ from those of their HCPs. The ACTION study explored these factors from the perspective of PwO and HCPs and identified key areas in which HCPs can better support PwOs within current obesity management guidelines.

Despite recognition as a serious and chronic disease, obesity management often does not follow a chronic disease management model as recommended by AACE/ACE and AHA/ACC/TOS in the organizations’ treatment guidelines [24,40]. This model has been used successfully to treat obesity in a primary care setting [41]. Applying this approach would take advantage of missed

Figure 6. Treatments Discussed with HCPs. All PwO who have discussed being overweight/losing weight with their provider (n = 2,185); PwO = People with Obesity.
opportunities to improve the quality of the obesity management dialogue between HCPs and PwO. Despite HCPs reporting being comfortable discussing weight management and doing so regularly with their patients with obesity, there is a lack of concordance between HCPs and PwO in the quality of weight management conversations. The way HCPs communicate with their patients can be an important factor in effectively managing obesity [12,42,43].

Obesity management guidelines convey the importance of communicating the adverse health effects of overweight and obesity, and the benefits of modest and sustained weight loss, but HCPs are not effectively communicating their patients’ weight status and its health implications. Obesity is a disease and the first step in management of any chronic disease is making the diagnosis, and, very importantly, clearly communicating the diagnosis to the patient. This study shows that PwO tend to underestimate their weight status and the health implications. Formally diagnosing obesity and clearly communicating the diagnosis is an important first step in treating obesity as a serious and chronic disease requiring long-term management following clinical treatment guidelines. Therefore, screening all patients for BMI, complications of obesity, and comorbid conditions is critical in identifying patients needing obesity management. PwO in our study who were diagnosed with obesity were more likely to be successful in their weight loss efforts.

One barrier to engaging patients in discussion about obesity may be the widespread assumption that PwO lack the motivation to lose weight. HCPs may not formally or informally evaluate their patients’ readiness to change as part of their obesity management discussions despite most PwO reporting several attempts to lose weight. This lack of individual evaluation may lead to incorrect assumptions and misinterpretation of patients’ motivations, which differ among individuals.

Another key barrier to PwO receiving support from their HCP may be the belief held by most PwO that weight management is completely their responsibility and not the responsibility of their HCP. The ACTION study and others have demonstrated that while the majority of PwO have an intent to lose weight, they tend to not seek treatment for obesity from HCPs [44], yet are receptive to having weight and weight loss discussions. Because discussions with HCPs, regardless of the message or guidance provided, were well-received by PwO, having conversations with patients that specifically focus on obesity guideline recommendations has the potential to improve obesity management success.

Shared decision-making may provide another opportunity for more effective weight management discussions between PwO and HCPs – a key component of the chronic disease management model that is currently underutilized in these discussions. A lack of clear, attainable weight loss goals is a barrier perceived by many PwO who are not aligned with HCPs on their goals and definitions of success. The most common goals of PwO are general improvement in health and functioning and any amount of weight loss. HCPs tend to set goals related to reduction in BMI or pounds/percentages of weight loss but are less likely to set “SMART” goals (Specific, Measurable, Attainable, Relevant and Timely) that are most pertinent to their patients and thus more likely to result in successful weight management. Weight loss goals PwO set for themselves may be difficult to attain, with many wanting to lose more than 20% of their body weight. Helping PwO understand the health benefits of a 5–10% weight loss goal based on guidelines may be one way HCPs can help PwO set more achievable goals for long-term maintenance [45,46], yet only 4 in 10 had a discussion about the effect of their weight on their overall health. Many PwO feel that their HCP can be a great resource on their weight management journey, but that their preferences may not always be considered in treatment decisions. Better alignment on what goals are appropriate and attainable for each individual patient may support patient success [47].

Clinical practice guidelines encourage a variety of therapeutic approaches to obesity management; however, most treatment recommendations by HCPs are based on general lifestyle improvements – more intensive treatments such as referral to a dietary or weight loss specialist, pharmacotherapy, and bariatric surgery are recommended for very few patients. Using established counseling methods to develop customized obesity management plans for patients based on their own motivations, goals, and preferences may help HCPs better support obesity management efforts [48,49]. By tracking changes in weight over time, acknowledging the results of past weight loss efforts, and soliciting patient feedback, HCPs can alter these treatment plans as needed to optimize each patient’s outcomes. These modifications may include intensifying lifestyle changes beyond healthy diet and increased physical activity, referral to a specialist, pharmacotherapy, and referral to a bariatric surgeon. Carefully listening to and considering PwO’s individual needs and goals related to weight management and helping PwO set clear plans and goals could lead to better outcomes [50]. Scheduling follow-up appointments for the chronic disease of obesity to alter treatment plans based on results and soliciting patient feedback after implementing weight loss strategies rather than assuming the patient did not follow advice may help identify areas for further discussion and alternative solutions.

The present study has some limitations, as previously reported [29]. Additionally, causality of the relationships between obesity management strategies and outcomes cannot be inferred from the data. The PwO and HCP respondents were sampled independently. Because the PwO and HCP samples were not matched, differences in perceptions between the two groups could be related to differences in the PwO surveyed and patients managed by the HCPs surveyed. The clinical guidelines continue to evolve; information on the current treatment guidelines and advocacy organizations can be found in the Obesity Treatment Guidelines and Resource Guide (Table 3).
Conclusion

The results from the ACTION study demonstrate the need for treating obesity as a chronic and serious disease and according to the current treatment guidelines. Identifying PwO in need of obesity management, providing a diagnosis, and ensuring the diagnosis is understood are necessary precursors to initiating the discussion with PwO about the disease, its impacts, and its treatment. Bringing up obesity is essential as PwO tend to view their condition as one that they are responsible for managing on their own; however, as with most other chronic conditions, the primary care provider can best guide the disease and treatment conversation. Although HCPs may think obesity is a sensitive topic for their patients, PwO are motivated to address their obesity and are comfortable discussing it. Setting appropriate expectations with PwO and managing obesity with a focus on outcomes important to PwO in addition to addressing comorbid conditions may be a successful approach as PwO were focused on the general health benefits of weight loss. Making follow-up appointments for obesity management allows for more adequate time to address this complex disease and will likely convey a sense of importance to patients. Helping PwO set weight loss goals outlined in the guidelines and providing individualized treatment plans including lifestyle and behavioral modifications, as well as pharmacotherapy and referrals for bariatric surgery as appropriate should help increase the chances of effective obesity management. Directions for future research include studying pairs of PwO and HCPs for a more direct comparison and evaluation of the effectiveness of educational/training programs for HCPs specializing in obesity care regarding the implementation of current guidelines.

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Declaration of interest

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