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http://dx.doi.org/10.1016/j.pec.2016.12.017

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Physicians’ views and experiences of discussing weight management within routine clinical consultations: a thematic synthesis.

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Abstract

Objective: To systematically search and synthesise qualitative studies of physicians’ views and experiences of discussing weight management within a routine consultation.

Methods: A systematic search of four electronic databases identified 11,169 articles of which 16 studies met inclusion criteria. Quality was appraised using the Critical Appraisal Skills Programme tool and a thematic synthesis conducted of extracted data.

Results: Four analytical themes were found: (1) physicians’ pessimism about patients’ weight loss success (2) physicians’ feel hopeless and frustrated (3) the dual nature of the physician-patient relationship (4) who should take responsibility for weight management.

Conclusion: Despite clinical recommendations barriers remain during consultations between physicians and patients about weight management. Many of these barriers are potentially modifiable.

Practice implications: Improving training, providing clearer guidelines and placing a greater emphasis on collaboration within and between clinicians will help reduce barriers for both physicians and patients. In particular, there is an urgent need for more specialised training for physicians about weight management to promote knowledge and skills in behaviour change techniques and ways to broach sensitive topics without damaging patient relationships.

Key words: weight management, patient-physician relationship, meta synthesis
1. Introduction

By 2030 nearly half the world’s adult population will be either overweight or obese [1]. In a significant number of European countries a fifth of adults are obese [2]. The UK has the second highest prevalence of obesity in the world [3] and by 2030, 11 million more adults are estimated to become obese [4]. Given the close association between obesity and many comorbid conditions (e.g. type 2 diabetes, cardiovascular diseases, and some forms of cancer [4]), the economic implications are substantial: by 2050 [6] and the global economic cost of obesity is an estimated 2 trillion [1].

Family physicians have access to wide segments of the population [13] offering key information [14] and are a trusted source of advice [15] so are well placed to address weight [10,16]. The National Institute for Health and Care Excellence (NICE) recognise the important role health care professionals (HCPs) can play in preventing disease [9,10,11,3] seeing obese patients before they develop further complications [12] and recommend they explore barriers to weight management during routine consultations [8].

HCPs also acknowledge their role regarding weight management [17, 18, 19] providing increasing levels of support to obese patients [18,20]. Furthermore, patients value receiving advice from physicians [21,22,16] with research suggesting that obese patients value a positive relationship with their physician and cite this as a key motivator to access care [23]. More specifically, patients would like increased input from their physicians about weight management [24], particularly when conversations are embedded in existing health problems [25]. Advice received can increase motivation [26] and accelerate weight loss [27]. However, less than 40% of obese patients receive
weight loss counselling [28,29] and fewer than 1% of physician consultations focus on weight management [16].

Barriers to giving weight management advice reported by physicians include insufficient confidence, knowledge and skills [30] and lack of time [30,31,32]. Additional factors include limited access to dieticians and nutritionists, [10] fear of breaking the doctor-patient relationship, [33] suboptimal training, [33, 26, 34] failure to acknowledge responsibility, [27] limited medical options for patients [35] and finding weight management unrewarding [36]. All suggest potential for improvement [30, 32, 33].

Thus as obesity levels rise, physicians still report significant barriers to weight management with some research suggesting decreasing levels of weight loss advice [37]. There is therefore a pressing need to gain a deeper understanding of the factors influencing weight management counselling during clinical consultations [38].

A recent review and meta-synthesis focused on the quantitative literature about communication about weight management [118]. Qualitative research is ideally suited to exploring the realities of routine clinical consultations [9]. Furthermore, physicians may hold more complex views than have been previously identified using quantitative methods [40]. As the literature on qualitative explorations of these views grows, there is a need to synthesise it to identify common findings and potentially new insights and directions for further research. Therefore, the aim of this thematic synthesis is to explore qualitative research pertaining to family physicians’ views and experiences of discussing weight management within routine clinical consultations.
2. Methods

In health care, quantitative studies are sometimes unable to uncover data captured by qualitative designs. Thematic synthesis provides knowledge essential to evidence based research [41] and ensures the development of analytical and descriptive themes that exceed the primary studies [42] as well as being a valuable source of research for public health [43,44,45,41].

The study comprised four stages: (1) a systematic search of key databases, (2) record retrieval and screening for relevance, (3) critical appraisal, (4) thematic synthesis as described by Thomas and Harden (2008). This technique has been widely used by researchers to gain a deeper insight into HCPs’ experiences within the health care system [46,47].

2.1. Formulating the research question

To establish the synthesis framework, an interpretation of the population/problem of interest, intervention, comparison and outcome (PICO) framework [48] was used to find qualitative studies exploring physicians’ views and experiences of discussing weight management within routine consultations (see Table 1). Previous researchers have used this strategy to identify qualitative papers [49,50,51]. Scoping exercises were used to refine search terms. At this stage, for purposes of manageability of data we decided to narrow our search to physicians only. The concluding set of PICO terms used in the search strategy is shown in Table 1. The PICO framework was used to organise the search strategy which was developed following scoping exercises.
2.2. Inclusion and exclusion criteria

Inclusion criteria were: (i) studies used qualitative methods for recruitment strategies, data generation and analysis [52] (ii) studies elicited physicians’ views and experiences of discussing weight management within routine clinical consultations (iii) articles published in English (iv) the study explicitly focused on obesity (v) studies in which fifty per cent of the sample or more are physicians.

2.3. Data sources and search strategy

The search terms were combined using the Boolean logic terms “or” and “and”. Keywords were truncated and synonyms of key search terms were used to elicit all relevant studies. MeSH explode was used where possible (See Table 1). Keywords were used such as: GP, patient, physician, general practitioner, doctor, exercise and qualitive. The database searches were executed from inception to May 2016 (see Table 2).

2.4. Systematic identification of literature
Four electronic databases were searched: MEDLINE, EMBASE, CINAHL and PsycINFO from inception to May 2016. The search strategy identified 11,169 articles which were imported into an Endnote bibliographic database.

Following both electronic and manual elimination of duplicates abstracts were screened and if potentially relevant, full texts accessed. The initial screening questions were: ‘Did it involve qualitative methods of data collection and analysis?’ and ‘is the research relevant to the synthesis topic?’. Sixteen papers were included in the final synthesis. (see Figure 1).

[Figure 1 about here]

2.5. Critical appraisal

Papers were critically appraised for rigour, credibility and relevance using an adapted Critical Appraisal Skills Programme (CASP) checklist [65] which has been used widely in meta-syntheses (e.g. 60,61,62,63,64,65,66]. Studies were rated using a 3-point scale (‘key’ = added considerable richness, ‘satisfactory’ = fulfilled the CASP criteria, and ‘unsatisfactory’ = failed the CASP criteria and/or did not enrich the analysis [63]. 4 were judged to be ‘satisfactory’ and 12 ‘key’. Evidence suggests negligible difference between ‘key’ and ‘satisfactory’ papers in terms of contribution to analysis (Malpass et al, 2009), hence study findings were weighted equally in the synthesis. A co-author (ADF), blind to original scores, rated each paper. One hundred per cent agreement was achieved.

2.6. The Synthesis Process
Thematic synthesis [41] is well-established and has been used to review health professionals’ perspectives [54]. Data extraction and thematic synthesis was conducted as outlined [41]. All studies were read and reread closely and key information recorded within data extraction forms. Free line-by-line coding of the article findings was followed by the development of descriptive themes. The final stage involved the generation of analytical themes. The analysis was led by the first author but all authors regularly met to discuss, refine and agree upon emergent themes.

3. Results

3.1. Description of selected studies

Across the 16 studies data were provided from 402 HCPs (range 12 to 60 participants), including GPs, nurses and dieticians. Five were based in the USA, 2 in Germany, 1 in Sweden, 1 in Portugal, 1 in the United Arab Emirates, 1 in Australia, 1 in New Zealand and 4 in the UK. All were published in English between 2001 and 2015. Eleven used semi-structured interviews, 1 used in-depth interviews, 3 focus groups and 1 focus group plus semi-structured interviews (see Table 3 for methodological detail). The studies focused on two key areas, firstly, exploring physicians’ views and experiences of discussing weight management with overweight/obese patients and secondly physicians’ views and experiences of implementing obesity guidelines. A variety of analysis was used and there was both an under and over reliance on raw data. The researcher participant relationship was only partially explored (see Table 3 for details).

[Table 3 about here]
3.2. *Thematic Synthesis*

Analytical themes were: physicians’ pessimism about patients’ weight loss success, physicians’ feel hopeless and frustrated, the dual nature of the physician-patient relationship and who should take responsibility for weight management (see figure 2).

[Figure 2 about here]

1. *Physicians’ pessimism about patients’ weight loss success*

Physicians were pessimistic about weight management viewing it as too difficult for patients to achieve and sustain. Physicians’ perceived that patients lacked willpower, found behaviour change challenging and were unaware of the risks of obesity. Furthermore, patients had little nutritional awareness, were untruthful about their diet, made excuses for their weight and were reluctant to accept responsibility for their problem. They found this frustrating, leading to a general malaise to address weight management feeling that success with patients was unlikely.

“*very few succeed in losing weight, and even those only lose a little. Lack of success among their patients has also made them less optimistic about their ability to help others in the future*”

Hansson (2011) [author interpretation]

“*anecdotes of success were frequently related with an expression of surprise*” Claridge (2014) [author interpretation]
Physicians used a range of techniques to effect weight management: goal setting, rolling with resistance (a motivational interviewing technique) food diaries and scare tactics. Physicians emphasised ‘partnering’ and although they encouraged patients to address unrealistic weight loss goals by taking gradual steps both behaviour change and weight loss were a constant challenge [see text box 1].

[Text box 1 includes a selection of quotations from the four analytical themes]

However, physicians recognised that it was a constant battle for patients to sustain motivation and they were unlikely to maintain weight loss and lasting behaviour change:

“I also tell [patients] that [your weight loss plan is] going to work for a few weeks or months, and then you’re going to go back to your same old bad old habits. When you fall off the wagon it doesn’t mean that you go and eat the half-gallon of ice cream...You have to say, Okay, I fell off the wagon, I’m not a bad person, stop all the negative stuff – tomorrow, you get back on the program” Gudzune (2012) [Primary Care Provider].

This negative reaction from physicians may serve to perpetuate a sense of learned helplessness within patients who find weight management a constant challenge:
“I just haven’t seen it be very successful with very many people . . .. I mean the reality is [that]
you know from everywhere you look weight loss doesn’t work very well for most people”

Leverence (2007) [Family Physician 2]

2. Physicians’ feel hopeless and frustrated

Physicians found discussing weight frustrating and prioritised immediate health concerns when
patients’ presented with comorbidities, thus avoided initiating a discussion about weight. This was
due to time constraints or an eagerness to fit the patient’s agenda.

Physicians expressed dissatisfaction with the paucity of available and effective medical management
options (weight loss drugs or bariatric surgery) leaving them feeling helpless and overwhelmed:

“If they did accept responsibility for a patient’s weight, none of the available treatment options
were particularly effective” Epstein & Ogden (2005) [Author interpretation]

“Some felt [bariatric surgery] was a last resort, because of the cost and risks associated with it”

Kim et al (2015) [Author interpretation]

Physicians reported encouraging patients to join commercial weight loss programmes and perceived
these to somewhat effective. External support, specifically dieticians, was considered but participants
perceived insufficient access to such services to meet patient volumes. Where available, physicians
preferred a practice-based dietician.
Physicians reported a lack of joined up approach to weight management by services with poor communication between GPs, Nurses and other HCPs. It was argued that this led to disenfranchised care:

‘They also demonstrate some scepticism regarding... referral to dietician or act in collaboration with other specialities was not a common practice’. Teixiera (2015) [author interpretation]

Weight management was perceived as unrewarding work and this negativity affected physicians within their practices and teams. Physicians also reported that weight guidelines lacked clarity, were difficult to implement locally and rarely used, often due to time pressures. Guidelines were sometimes in conflict with physicians’ treatment beliefs as some perceived that medical interventions recommended were ineffective.

“Well we certainly saw the SIGN guidelines (on weight management) and were horrified. There were aspects of the SIGN guidelines that we found quite unacceptable, particularly the recommendation to use appetite suppressants” Mercer & Tessier (2001) [General Practitioner]

Physicians wanted more transparent guidelines, especially information on dietary advice that was non-contradictory and consistent:
Staff were especially eager for guidelines regarding dietary advice, which at present tended to be vague. Because of the many contradictions, different opinions and extensive debate about what were the most successful diet regimes, staff regarded it as difficult to offer balanced advice to patients Hansson (2011) [author interpretation]

Finally, physicians expressed a desire for increased knowledge and training in motivational interviewing (MI), nutritional awareness, how to address weight management, cognitive behavioural techniques (CBT) and training via short courses and distance learning. Interestingly, physicians who had received prior training in MI were less frustrated with lack of success.

3. The dual nature of the physician-patient relationship

Physicians used the strength of their relationship with patients as a foundation for discussions about weight with increased rapport, continuity of care and knowledge of the patient’s history enabling effective “partnering’. This allowed them to assess patient’s motivation and gain a deeper insight into their world. ‘Partnering’ was key as weight management was perceived to be a continuous process that shouldn’t be tackled within short consultations. A sense of ease and progression within the relationship provided a platform for discussion and proved beneficial.

“Often, they saw that people were non-compliant to advice year after year but then suddenly things started to happen. The importance of encountering the same personnel was stressed by a number of staff” Hansson (2011) (author interpretation).
Central to the relationship was the use of patient-centred care (PCC). Physicians valued dimensions of PCC such as empathy, sharing positive and negative experiences and an appreciation that patients’ needs were physical, psychological and social. Tailoring weight management to meet patients’ individual needs and using PCC as a platform was pivotal:

“Both GPs and patients emphasized the value of successful patient-centred communication. When discussing the importance of communication, physicians mentioned trust as well as empathy and respect as essential prerequisites” Heintze (2012) (author interpretation).

Physicians were hesitant to discuss weight as it was considered a sensitive topic and may impair their relationship:

‘Several of the barriers...were unique to GPs, who expressed concern that raising the topic of weight conflicted with their desire to maintain a non-judgmental relationship with patients’

Blackburn (2015) [Author Interpretation]

To preserve relationships, discussions were delayed until rapport had been established. However, some physicians avoided the topic prioritising conditions that were viewed as easier to treat. Physicians feared negative reactions from patients and disguised the topic of weight using positive framing such as ‘healthy lifestyle’ rather than ‘weight loss’. Physicians used ‘hooks’ such as measuring body size and then presenting facts to the patient. Physicians perceived these techniques allowed them to address the topic whilst avoiding offence.
4. Who should take responsibility for weight management?

Weight talk was perceived as only legitimate when it was linked to comorbidities. This also reduced the tension and ambiguity associated with treating obesity alone. In contrast, if obese patients presented in the absence of illness some physicians viewed this as non-medical and hence not their responsibility. The exception was when obesity levels were sufficiently severe.

“Being obese has a whole lot of medical implications...but it’s the medical ones that we tend to. We are on safe ground I suppose with medical implications”. Claridge et al (2014) [GP 2]

“Overweight and obesity were seen more as conditions that might involve a risk of diabetes or some other disease. If a concomitant disorder was present.. it was important to intervene”. Hansson (2011) [author interpretation]

Some physicians did not consider a legitimate medical solution existed for obesity and concurred when patients did not want medical solutions. They believed medication was a temporary solution and the key to success was maintaining behaviour change.

“I am not entirely sure that to medicalise it is the way forward” Mercer & Tessier (2001) [General Practitioner]
Physicians recognised that environmental barriers prevented physical activity and decreased patient motivation and this supported the idea that weight management was outside their remit, and that responsibility lay at a societal not an individual level.

Some physicians referred patients to external weight management services believing managing weight was a societal problem so responsibility lay with external services. These services were more appropriate than ‘medicalising the problem’ and group based programmes more effective as they encouraged patients to take responsibility. Moreover, these services possessed ‘specialised knowledge’ that physicians did not have themselves.

Physicians identified cultural barriers such as a paucity of acceptable facilities for women to exercise, social habits revolving around communal meals and the perception that to be thin was to be unhealthy. Challenging these deeply held cultural beliefs was difficult and also outside physicians remit.

However, some physicians were clear they held some responsibility for helping patients manage weight.

“One GP called himself a ‘gathering place’ (GP2) for all health-related complaints and underlined his responsibility for patients’ health” Sonntag (2012) [author interpretation]

In contrast, some suggested that weight management was the patient’s responsibility. This resulted in a sense of conflict as they were aware that patients looked to them to take control and solve their weight problem, leaving them disheartened:
“GPs therefore described the issue of responsibility and although they felt that obesity was ultimately the patient’s problem, they felt that patients wanted the doctor to take ownership. This conflict resulted in GPs feeling frustrated with their patients’ inability to change their lifestyle” Epstein & Ogden (2005) [author interpretation]

There were different views as to who, within the primary care team, was responsible for supporting patients in weight management. This was usually delegated to a more junior member of the team. Finally, physicians lacked defined roles resulting in them relinquishing responsibility to other colleagues:

“we very much leave it to the practice nurse. I do not think it is a GP’s job to be doing hands on work- it is my responsibility to make sure it has been tackled by someone else” Mercer & Tessier (2001) [General Practitioner]

4. Discussion & conclusion

4.1. Discussion

This review is the first to synthesise literature exploring physicians’ views of discussing weight management within consultations and suggests that physicians continue to find weight management challenging. Novel themes were based on 16 studies establishing a robust body of evidence. The four analytical themes indicated that physicians perceive weight management as a difficult task for them and patients, and question who is best placed to address it. They prioritise relationships with their
patients and perceive this helps to address the topic of weight without offending. Physicians used a variety of behaviour change techniques (BCTs) such as goal setting or encouragement [29,72] when discussing weight and were more confident that these would achieve success with patients as opposed to general advice. However, some still failed to use BCTs [33,35] or used ones with a weak evidence base e.g. fear arousal [76]. Both physicians and patients may benefit from further training in BCTs [77] or in methods such as motivational interviewing (MI). Furthermore, quantitative research proposes that physicians are pessimistic about patient motivation to lose weight, [78,28,79] however, evidence shows that physicians may be underestimating it [35,14]. This suggests more effective communication between physicians and patients may increase motivation levels. Finally physicians’ perceived that overweight/obese patients were in denial. This is in line with patients’ views of their own weight suggesting that patients with a raised BMI often underestimate their own body weight [80,81].

Our analysis supports previous findings that physicians consider weight management unrewarding [17, 82, 83, 84, 36, 85]. Physicians feel they have insufficient management options and are sceptical about their efficacy [83,35]. Physicians feel more confident offering medical solutions which may suggest why they are reticent to address weight [86]. In the absence of other options physicians encouraged patients to use commercial weight management services. Indeed, commercial slimming clubs can be more cost-effective for weight loss than primary care services led by trained staff [87]. Physicians advocated a joined-up approach to weight management. This supports the implementation of a collaborative obesity care model, [88] European Clinical Practice Guidelines, [2] NHS England [89] and the USPSTF [90] recommending clinical pathways for obesity and multidisciplinary teams to deliver weight management. However, guidelines often lacked clarity leading to physicians’
reluctance to follow them and a lack of confidence in treatment recommendations [91]. Physicians wanted greater nutritional awareness and to learn techniques such as CBT and MI to motivate patients when addressing weight. Similar findings suggest physicians’ desire additional training, support and skills in weight management [35,91, 92, 93]. Furthermore, Bleich et al (2015) [88] found that non-physician HCPs also reported suboptimal training in weight management suggesting little progress in this area. Finally, physicians prioritised critical health concerns, especially when they lacked time or responded to the patient’s agenda. This may relate to the fact that weight management is a sensitive topic and physicians’ fear offending the patient [86].

The synthesis suggests the physician-patient relationship is a bedrock for weight management discussion but may also deter physicians from broaching it for fear of damaging the relationship. Physicians find weight discussions challenging preferring to treat illnesses they perceive as legitimate medical conditions [86]. Unsurprisingly, many physicians used aspects of patient-centred care (PCC) such as empathy and partnership to facilitate discussions. This is in contrast to Cox et al (2011) [91] who found that physicians rarely used PCC during in situ encounters about weight; suggesting that although physicians’ expressed a desire to deliver PCC within our synthesis, their perceptions may not be the same as what they actually do. The themes were interlinking for example the desire to preserve the physician-patient relationship linked strongly to physicians’ perception that behaviour change was too difficult for patients. Physicians’ perceived that weight management was challenging and lengthy and patients needed a solid foundation to maintain change. In addition, physicians use of PCC to facilitate discussions about weight related to their view that behavior change was hard and difficult for patients. Empathy was vital in order to facilitate weight management. Finally, physicians’
feared damaging the doctor-patient relationship when discussing weight so prioritised critical health problems especially when consultations were time pressured.

The final theme focused on the issue of responsibility. Physicians lack consistency when discussing weight [94,95, 28, 96] and the belief that weight management is their patients’ responsibility may be one cause [35,27]. Insufficient medical options, poor patient motivation and insufficient training were factors. Physicians argued others were better equipped to address weight, however this was typically delegated where possible to others more junior or with less autonomy. That is unsurprising given weight talk was viewed as unrewarding. The findings suggested that physicians fail to view ‘obesity alone’ as a legitimate medical problem so was therefore not within their remit. This is consistent with research that physicians are more willing to initiate and discuss weight when they ‘medicalize’ it or when patients present with comorbidities affecting health outcomes [86, 16]. In addition medical training favours the biomedical model so physicians may feel more comfortable viewing weight as a medical problem [95]. Lastly, some physicians were reticent to take responsibility for weight suggesting that external factors such as family, society and culture were to blame. This supports previous quantitative research that over half of doctors believed the family was an essential influence on weight loss although few involved them in treatment decisions [82]. Furthermore, some physicians’ perceived cultural factors as a barrier to change making them less likely to take responsibility for weight management. However, some studies suggest that ethnic minorities are more likely to be counselled about weight [96] and that physicians in certain cultures such as the USA feel more confident about delivering counselling to ethnic minorities.

4.2. Strengths
This thematic synthesis is the first to investigate the views of physicians discussing weight within routine consultations. Despite 13 of the 16 studies taking place in Europe and the USA these results are still consistent with physicians’ views from other work undertaken on other continents suggesting generalizability [83,35]. All studies were of medium and high quality employing a wide range of methodologies adding to the strength of the findings. Our results complement previous quantitative studies that physicians’ lack confidence, knowledge and skills when addressing weight [30] are pessimistic about their patients’ ability to lose weight [28, 97] fear damaging the doctor-patient relationship [86] and are reticent to take responsibility [27, 98].

4.3. Limitations

Researchers have argued that identifying qualitative research is challenging [100, 101, 102] due to poor indexing within electronic databases [103, 43, 104,105] and the range of research designs among qualitative studies [99]. A move to more detailed abstracts and keywords to aid indexing would help rectify this [106]. To address this we employed extensive scoping searches prior to conducting systematic searches to increase search sensitivity [104]. Finally, although the selection of CASP was based on positive reviews [66] selecting a pertinent appraisal tool and evaluating qualitative work is a subjective task [107]. CASP may place too much importance on procedural aspects of research [56] and ignore the reasoning underpinning theoretical aspects [107] giving a limited model of enquiry [108]. Providing a gold standard measuring tool for all researchers [109] would be beneficial [103].
4.4. Practice implications

Despite key policy recommendations from NICE [8] the USPSTF [90] and The Dutch College of General Practitioners (NHG) [110] suggesting physicians prioritise weight discussions with overweight/obese individuals; physicians still report significant barriers and are overwhelmed and frustrated. To reduce the barriers between physicians and patients there is a need for greater collaboration. Sharing knowledge and expertise in both primary, secondary and tertiary care would be useful. In addition, further clarification of physicians’ roles and responsibilities is advisable as well as the introduction of weight management ‘experts’ within GP practices or secondary care. Physicians could benefit from training in brief BCTs, deliverable within time-pressured consultations; such as MI [111]. It is evident that physicians view weight management as sensitive thus specialist training for all physicians at both undergraduate and postgraduate level could help. Finally, there is a potential role for behaviour change practitioners within primary and secondary care to take up this work and support existing practitioners. It has been suggested that health psychologists have the relevant skills to fulfil this role and may ease the burden on existing physicians and provide a more cost effective solution [112].

4.5. Conclusion

This review suggests that physicians continue to find discussions about weight arduous. Physicians are keen to safeguard the doctor-patient relationship and view the topic of weight as a potential threat to this, employing strategies to balance and preserve it. In addition, physicians perceive that weight management is too difficult for both patients and themselves and that they have insufficient support and expertise from colleagues and adequate treatment options. They also lack appropriate training.
knowledge or weight management infrastructure to deal with this crisis. Finally, physicians vary in the level of responsibility they accept for weight management. When physicians do accept responsibility this is often due to ‘legitimate medical reasons’ such as concomitant disorders that they feel obligated to address.

**Ethical approval**

Not applicable.

**Conflict of Interest**

No conflict of interest was declared

**Funding**

The first author was funded by the Medical Research Council as part of a doctoral studentship.
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qualitative literature in health services research. *Qualitative Health Research, 8*, 3, 341–351.


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Legends

Table 1 Terms used to systematically search and synthesise qualitative studies of physicians’ views and experiences of discussing weight management within a routine consultation.

<table>
<thead>
<tr>
<th>Population</th>
<th>Intervention</th>
<th>Comparison</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPs/ patients</td>
<td>Weight management</td>
<td>None</td>
<td>Qualitative Research/ or qualitative*.mp. Interviews as topic/ or exp Focus groups/ Focus group*.mp. Interview*.mp</td>
</tr>
</tbody>
</table>
Table 2

Databases searched

<table>
<thead>
<tr>
<th>Databases searched</th>
<th>Interface</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PsycINFO</td>
<td>Ovid SP</td>
<td>1980 to May 2016</td>
</tr>
<tr>
<td>MEDLINE</td>
<td>Ovid SP</td>
<td>1980 to May 2016</td>
</tr>
<tr>
<td>EMBASE</td>
<td>Ovid SP</td>
<td>1980 to May 2016</td>
</tr>
<tr>
<td>CINAHL Plus</td>
<td>EBSCO</td>
<td>1988 to May 2016</td>
</tr>
</tbody>
</table>
Table 3: Description of included articles that were synthesised to capture physicians’ views and experiences of discussing weight management (n=16)

<table>
<thead>
<tr>
<th>Authors &amp; country</th>
<th>Aim</th>
<th>Participant characteristics</th>
<th>Data collection</th>
<th>Data Analysis</th>
<th>Themes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Alexander et al [67] USA</td>
<td>To examine Physicians’ beliefs, outcome expectancies, and strategies for addressing weight with patients.</td>
<td>Family physicians N = 11 Internists N = 6 Age of participants = not stated Gender of participants = not stated</td>
<td>N=2 Focus groups</td>
<td>Grounded Theory (Corbin &amp; Strauss, 1993)</td>
<td>1. Responsibility, 2. Barriers 3. Target Populations, 4. Introducing Topic 5. Ways to talk about Obesity</td>
</tr>
<tr>
<td>2 Ali et al [68] UAE</td>
<td>To explore weight management barriers for Emirati women and strategies that can facilitate their weight management efforts.</td>
<td>Family Medicine N= 7 General Practitioner (GPs) N=8 Dietician N=9 Nurse Educator N=5 Age of participants = not stated Gender of participants = not stated</td>
<td>N=29 In-depth individual interviews</td>
<td>Grounded Theory (Cutcliffe, 2004)</td>
<td>1. Barriers 2. Motivators &amp; Suggestions</td>
</tr>
<tr>
<td>3 Blackburn et al [113] UK</td>
<td>To explore general practitioners’ (GPs) and primary care nurses’ perceived barriers to raising the topic of weight in general practice.</td>
<td>General Practitioners (GPs) N=17 Nurses N=17 Age = all between 32 and 66 years GPs modal age range = 30-39 years Nurses modal age range = 40-49 years Gender Nurses N= 17 female GPs N=11 female N=6 male</td>
<td>N=34 semi-structured interviews</td>
<td>A deductive approach to content analysis to the Theoretical Domains Framework (TDF)</td>
<td>1. Limited understanding about obesity care 2. Concern about negative consequences 3. Having time and resources to raise a sensitive topic.</td>
</tr>
<tr>
<td>4 Claridge et al [117] New Zealand</td>
<td>This study aimed to explore GP opinion of weight management interventions in one region of New Zealand.</td>
<td>General Practitioners N= 12 Age of general practitioners = N= 4 aged 31-39, N= 3 aged 40-60, N= 5 &gt;60 Gender N= 7 male and N= 5 Female</td>
<td>N=12 semi-structured interviews</td>
<td>Inductive thematic analysis</td>
<td>Five key themes identified: 1) GP perceptions of what the GP can do; 2) the roots of the obesity problem; 3) why the GP doesn’t succeed; 4) current primary care interventions; and 5) bariatric surgery</td>
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<td>5 Epstein &amp; Ogden [9] UK</td>
<td>To explore GPs’ views about treating patients with obesity.</td>
<td>General Practitioners N=21 Age of general practitioners N=9 (aged 30-39yrs) N=5 (aged 40-49yrs) N=5 (aged 50-59 yrs) N=2 &gt;60 yrs Gender N= 10 male and N=11 females</td>
<td>N=21 In-depth semi-structured interviews</td>
<td>Interpretative Phenomenological Analysis (Smith &amp; Osborn, 2004)</td>
<td>1. Obesity is the responsibility of the patient and 2. Patients see obesity as a medical problem and desire a medical solution3. GPs lack faith in treatment options and desire good doctor-patient relationship 4. Due to the conflict GPs sometimes offer inappropriate treatments</td>
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| 6 | Gudzune et al [29] USA | To explore PCPs’ usual practices as part of weight counseling to identify how PCPs communicate with their patients about weight loss. | Physicians N= 24  Nurse Practitioners N= 2  
Age = mean age = 46.4  
Gender = N=15 females and N=11 males | N=5 Focus groups | Editing Analysis Style (Crabtree & Miller, 1992) | 1. Motivating patients to lose weight 2. Partnering with the patients to achieve weight loss 3. Handling challenges that arise as part of weight counseling |
| 7 | Gunther et al [70] UK | To uncover and describe barriers and enablers to implementing NICE’s recommendations on the management of obesity in adults in general practice, using practical qualitative methods. | General Practitioners (GPs) N=7  
Practice Nurses N=7  
GPs  
Age N=4 aged 31-40, N=1 aged 41-50, N=2 aged 51-60  
Gender N= 4 males, N=3 females  
Practice Nurses  
Age N= 2 aged 31-40, N=3 aged 41-50, N=1 aged 45-64, N=1 aged 51-60  
Gender N=7 females  
Patients N=9  
Age N= 2 aged 20-30, N= 1 aged 31-40, N= 2 aged 51-60, N= 4 aged 61 and over  
**Practitioner:** 1. Consultation with patients 2. Consistency of approach 3. Not the practitioner’s responsibility |
| 8 | Hansson et al [40] Sweden | To describe how GPs and DN s, both male and female, conceive their encounters with obesity in primary health care. | General Practitioners (GPs) N=10  
Age N=2 aged 34-40, N=2 aged 41-45, N=2 aged 46-50, N=1 aged 51-55, N=3 aged 56-60  
Gender N=6 female, N=4 males  
District Nurses (N=10)  
Age N=1  
| 9 | Heintze et al [71] Germany | This study analyses patients’ and physicians’ visions for the future management of obesity. | General Practitioners (GPs) N=15  
Age= mean age of 51  
Gender= N=6 males and N= 9 females  
Overweight patients N=15  
Age= Age range between 43-73yrs (mean age 59 years)  
Gender= N=4 males and N=11 females | N=30 in-depth semi-structured interviews | Qualitative Content Analysis (Mayring, 1983) | 1. Weight loss goals and motivation 2. Dietary advice 3. Physical activity 4. Psychosocial aspects |
| 10 | Hong et al [72] USA | The aim of this qualitative study was to assess family physicians’ understanding and perception of the personal and environmental factors and support for other comorbidities. | Family physicians N=35  
Family Medicine Residents N=14 | N=5 Focus Groups | Thematic Content Analysis (Miles, 1994) | 1. Awareness & practices of counselling related to PA/walking 2. Physicians' reactions to |
<table>
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<tr>
<th>11</th>
<th>Kim et al [114]</th>
<th>To describe the factors influencing general practitioners’ (GPs) referral intentions for their obese patients.</th>
<th>General Practitioners N=24</th>
<th>N=24 semi-structured interviews</th>
<th>Inductive thematic analysis</th>
<th>GPs’ own attitudes, experience and options. 2. Patient’s motivation 3. GPs’ previous experience 4. Patients’ expectations</th>
</tr>
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| 12 | Leverence et al [73] | To examine the views of clinicians on obesity counseling and to compare these views to the recommendations of leading obesity guidelines. | For the in-depth interviews  
Family Physicians & Internists N=8  
Pediatricians N=5  
Mid-level practitioners N=7  
Age = not stated  
Gender N=11 males, N=9 females  
For the focus groups  
Family Physicians & Internists N=6  
Pediatricians N=2  
Mid-level practitioners N=2  
Age = not stated  
| 13 | Mercer & Tessier [74] | To examine general practitioners’ and practice nurses’ perceptions of obesity, their strategies and attitudes towards weight management, and their views on the major obstacles to (and need for) better weight management in primary care. | General Practitioners (GPs) N=10  
Age= all below the age of 55  
Gender N=7 females and N=3 males  
Practice Nurses (PNs) N=10  
Age= all below the age of 55  
Gender N=10 females | N=20 Semi-structured interviews | Not stipulated | 1. GPs and PNs had little enthusiasm for weight management. 2. GPs not appropriate use of time 3. Frustrated at lack of success 4. Patients lack motivation 5. GPs keener to tackle obesity when patient had comorbidities |
| 14 | Schauer et al [115] | To explore how clinicians approach weight counseling, including who they counsel, how they bring up weight, what advice they provide, and what treatment referral resources they use. | Primary Care Physicians N=30  
Physicians N=14  
Physician Assistants N=11  
Nurse Practitioners N= 5  
Age  
N = 6 (aged between 18-35) N=13 (aged between 36-45)  
N= 3 (aged between 46-55)  
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<tr>
<th></th>
<th>Study Details</th>
<th>Research Questions</th>
<th>Study Participants</th>
<th>Data Collection Method</th>
<th>Data Analysis Method</th>
<th>Findings</th>
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| 15 | Sonntag et al [75] USA | Identifying GPs’ perspectives on counselling overweight and obese patients. | Primary Care Physicians (GPs) N=15  
Age  mean age = 51 years  
Gender N=6 male N=9 female | Semi-structured guided interview | Qualitative Content Analysis | 1. GP’s role in obesity therapy  
2. Need to treat  
3. Situations in which the topic of overweight is addressed  
4. GP’s objectives in obesity treatment  
5. Barriers to obesity treatment |
| 16 | Teixeira et al [116] Portugal | To understand GPs’ views about obesity and obese people and how these professionals perceive their role in the treatment of this disease. | General Practitioners (GPs) N=16  
Age  all between 32 and 57 years  
Mean age = 51 years  
Gender  
N=7 male  
N=9 female | N=16 semi structured interviews | Thematic Analysis | 1. Obesity as a public health concern  
2. Obese characteristics vs treatment demands  
3. GPs’ sense of defeat vs need to treat. |
**Figure 1: PRISMA Flow chart detailing the process of study identification**

**Identification**
- MEDLINE 1980-2016: 3108 citations
- PsycINFO 1980-2016: 1237 citations
- Embase 1980-2016: 4725 citations
- CINAHL 1988-2016: 2099 citations
- Total = 11,169 citations

**Screening**
- Papers identified through hand searching (n=0)

**7838 abstracts were extracted and screened on the basis of title and abstract.**

**Eligibility**
- Full text of remaining 42 articles assessed for eligibility

**Included**
- 16 studies included in thematic synthesis

**Exclusion**
- Duplicates (n=3331)
  - Electronic removal via endnote= 2044
  - Removed manually =1287
- 7500 records excluded on basis of title
- 296 citations excluded on basis of abstract
- Full-text articles excluded, with reasons (n=26)
  - Reviews=2
  - The study does not focus on obesity/weight management in aims= 2
  - Not physicians’ views within routine consultations=7
  - Mixed methods or quantitative= 8
  - Less than fifty per cent of the sample are physicians =3
  - Abstracts=2
  - Student health setting=1
  - Same data=1
- Full-texts excluded because classified on CASP as fatally flawed or irrelevant (n=0)
Figure 2. Physicians’ experiences of discussing weight management within a routine consultation: analytical and descriptive themes
Physicians' pessimism about patients' weight loss success

- BC techniques & general recommendations
- Patient motivation
- Overweight/obese are in denial
- Behaviour change is hard

Physicians' experiences of discussing weight management within a routine consultation

- Vague guidelines
- Not much to offer medically
- Weight management is unrewarding
- HPs desire knowledge and training

Physicians' feel hopeless & frustrated

- Commercial slimming clubs are a better option
- Prioritise critical health stuff when they lack time
- Limited availability of internal & external weight management support

Weight management is a sensitive topic

- Risk damaging the physician-patient relationship
- Good physician-patient relationship acts as a foundation for weight management discussion

The dual nature of the physician-patient relationship

- Physician uses patient-centred care to facilitate weight management discussion

Physicians’ feel hopeless & frustrated

- Weight management is unrewarding
- Vague guidelines
- Not much to offer medically

Who should take responsibility for weight management?

- Societal problem
- Cultural problem
- Family problem
- Conflicting responsibilities

- Is it a legitimate medical problem?
- Physicians’ lack consistency when treating weight management

Limited availability of internal & external weight management support

- Prioritise critical health stuff when they lack time
- Commercial slimming clubs are a better option

Analytical theme

Descriptive themes
Physicians’ pessimism about patients’ weight loss success
“On the whole I’d say the success rate is quite low, in terms of major changes” Kim et al 2015 [Urban GP #2]

“I want lots of people with a BMI over 30 to go somewhere, but most are not really interested or motivated to change” Kim et al 2015 [Rural GP #1]

Physicians’ feel hopeless and frustrated
“PCPs avoided discussing weight and weight loss entirely when trying to balance multiple priorities during the patient visit. PCPs avoided discussing weight and instead focused on the patients’ co-morbidities: ‘Most of these people do have co-morbidities, and those co-morbidities often overwhelm the visit” Gudzune (2012) [author interpretation]

“Many of the GPs and PNs interviewed expressed a keen interest in having a dietician attached to the practice, to advise on difficult or complex cases and to help support the efforts of the PNs” Mercer & Tessier (2001) [author interpretation]

The dual nature of the physician-patient relationship
“Living in this state of conflict was particularly uncomfortable for many doctors as they felt that it presented a challenge to their relationship with their obese patients and believed that a good relationship with their patients was central to their role as a GP” Epstein & Ogden (2005) [Author interpretation]

“You just find that you ‘hit’ someone at precisely the right moment and something you say, or something you enable patients to think about can change... change their life quite dramatically”. Claridge et al 2014 (GP 8)

“People seem to be quite accepting of me talking about weight, whereas in other social settings you could never discuss someone’s weight”. Claridge et al 2014 (GP 4)

Who should take responsibility for weight management
“Physicians consider that obese patients want that doctors hold control and responsibility over the treatment, don’t recognize the nature, consequences and gravity of the problem and deny their condition, lacking commitment” Teixeira et al 2015 [author interpretation]

“Some women think healthy food is not interesting, ” while some felt that Emirati women accept their higher body weight, hindering promotion of weight loss during counseling” Ali (2009) [author interpretation]