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Research report

Gastric bypass patients' goal-strategy-monitoring networks for long-term dietary management

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ABSTRACT

Following gastric bypass surgery, patients must make dramatic dietary changes, but little is known about patients' perspectives on long-term dietary management after this surgery. This grounded theory, qualitative study sought to advance conceptual understanding of food choice by examining how gastric bypass patients constructed personal food systems to guide food and eating behaviors 12 months post-surgery. Two in-depth interviews were conducted with each of 16 adults, purposively sampled from bariatric support groups. Using constant comparative analysis of verbatim interview transcripts, researchers identified participants' goal-strategy-monitoring networks representing how participants used specific food and eating behaviors towards their main goals of: Weight Management, Overall Health, Avoiding Negative Reactions to Eating, and Integrating Dietary Changes with Daily Life. Linked to each main goal was a hierarchy of intermediary goals, strategies, and tactics. Participants used monitoring behaviors to assess strategy effectiveness towards goal achievement. Individuals' Weight Management networks were compared to uncover similarities and differences among strategy use and monitoring methods among those who maintained weight loss and those who regained weight. The complex, multilevel goal-strategy-monitoring networks identified illustrate the "work" involved in constructing new personal food systems after surgery, as well as advance understanding of strategies as a component of people's personal food systems. These findings provide researchers and practitioners with insight into the long-term dietary issues that gastric bypass patients face and a potential method for representing how people relate deliberate dietary behaviors to their goals.

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Introduction

Gastric bypass surgery is a popular medical intervention for obesity in the United States that leads to drastic weight loss and improvements in obesity-related co-morbidities including Type 2 diabetes and cardiovascular disease (Adams et al., 2012). By reducing stomach size and re-routing the small intestine (Buchwald et al., 2004), this surgery physically limits the volume of food one can eat and alters hunger and satiety hormonal signaling (Bose et al., 2010; Carrasco et al., 2012). Lifelong vitamin and mineral supplements are required to prevent nutrient deficiencies (Shah, Simha, & Garg, 2006). Food intolerances are common and can be severe as in the case of dumping syndrome (Frantzides et al., 2011; Overs, Freeman, Zarshenas, Walton, & Jorgensen, 2012). Post-surgery, patients have to manage not just their weight but surgery induced "side effects."

Existing studies of dietary behaviors after gastric bypass surgery generally provide information about what patients eat, focusing on calorie consumption or nutrient composition of the diet (de Torres Rossi, Dos Santos, de Souza, de Cassia de Aquino, & Sarni, 2012; Novais, Raser, Leite, Marin, & de Oliveira, 2012; Sarwer et al., 2008). More recently, studies have focused on "problem behaviors" such as grazing or eating sweets (Colles, Dixon, & O'Brien, 2008; Faria, De Olivera Kelly, Faria, & Ito, 2009), or compliant or non-compliant behaviors of interest (Toussi, Fujioka, & Coleman, 2009). With the exception of citing food intolerances (Moize et al., 2003; Thomas & Marcus, 2008) or emotional eating (Mathus-Vliegen, 2006), few studies offer explanations as to why patients choose or avoid certain foods, how they make food related decisions, or how they have integrated the need to manage both weight and altered digestive tracts into their lives.

A different perspective on dietary practices comes from the Food Choice Process Model (Sobal & Bisogni, 2009), a grounded theory model that takes a constructivist perspective on dietary behaviors. According to the model, people construct "personal food systems," cognitive processes that guide their food and eating practices. Personal food systems are dynamic, change over time, and include food choice values, which are meaningful considerations in

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1 food decisions, e.g. health, taste, and convenience. Personal food
2 systems also include ways of classifying foods and eating situa-
3 tions (Blake, Bisogni, Sobal, Devine, & Jastran, 2007; Furst, Connors,
4 Sobal, Bisogni, & Falk, 2000), strategies to achieve food choice values
5 (Falk, Bisogni, & Sobal, 2000b) and ways of balancing conflicting
6 values (Connors, Bisogni, Sobal, & Devine, 2001; Smart & Bisogni,
7 2001). This model suggests that after surgery, gastric bypass pa-
8 tients need to reconstruct their personal food systems such as by
9 revising their food choice values, creating new strategies, construct-
10 ing new food classifications, and developing new scripts and rou-
11 tines for eating.

12 The goal of this study was to develop a conceptual understand-
13 ing of the cognitive processes gastric bypass patients used to guide
14 food behaviors after the first year of surgery. The gastric bypass ex-
15 perience also provided a unique opportunity to advance under-
16 standing of food choice more generally as these individuals have
17 to “relearn” to eat after surgery and their post-surgical food and
18 eating behaviors may be highly conscious and memorable to them.
19 To gain patients’ perspectives on their experiences, researchers used
20 a constructivist perspective (Charmaz, 2000) and a grounded theory
21 approach (Glaser & Strauss, 1967).

22 Material and methods

23 Participants were purposively sampled (Lincoln & Guba, 1985),
24 with inclusion criteria of having gastric bypass surgery a minimum
25 of 12 months prior and being over 18 years of age. The first recruit-
26 ment yielded 10 participants from two bariatric support groups in
27 separate cities in Upstate New York. Although no new emergent
28 themes were uncovered with the 10th participant, the research-
29 ers felt similarities in concepts and themes might be due to shared
30 support group participation and similar pre- and post-operative treat-
31 ments; all participants went to one of three surgeons operating in
32 local hospitals. A second wave of recruitment from a third group
33 yielded six additional participants. Recruitment stopped after theo-
34 retical saturation was reached (Glaser & Strauss, 1967). Together,
35 the 16 participants reflected upon experiences from six different
36 surgical practices. As no major changes in bariatric surgery prac-
37 tices had occurred since the first wave of recruitment, researchers
38 assumed that participants’ medical management of their surgery
39 would remain comparable, which was confirmed by analysis. The
40 university institutional review board approved all research proto-
41 cols, including recruitment efforts, informed consent processes, and
42 participant involvement.

43 **Table 1** summarizes the characteristics of the 13 women and 3
44 men who participated. Participants ranged in age from 32 to 62 years
45 and varied in their educational background. Twelve participants had
46 full or part-time jobs in fields including education, business, and
47 healthcare. Twelve participants were married and five had chil-
48 dren living at home. Time since surgery ranged from 14 months to
49 10 years. All participants’ surgeries were covered by insurance.

50 Participants differed in their post-surgical weight loss out-
51 comes. Although all participants felt they had experienced maximum
52 weight loss, some participants were just beginning a weight sta-
53 bilization period, while others had maintained weight loss for a year
54 or more. Several participants reported unwanted weight regain; of
55 those, only three were unsuccessful in their ability to deal with
56 it. The detailed weight loss trajectories of these patients are
57 described elsewhere (manuscript forthcoming).

58 One researcher conducted two semi-structured interviews with
59 each participant. Two interviews enabled the researcher to build
60 rapport with the participants through prolonged engagement
61 (Lincoln & Guba, 1985), to follow up on emerging themes, to clarify
62 interpretations from the first interview, and to reduce participant
63 fatigue because the depth of inquiry was extensive. The first inter-
64 view focused on current and past dietary practices, while the second

Table 1
Summary of participant characteristics.

	Count
Marital status	
Married	12
Single	4
Household composition	
Lives alone	1
Lives with spouse/significant other only	8
Lives with spouse and children	4
Other	2
Education level	
Diploma	1
Associates degree	6
Trade school	2
Some college	5
Graduate or advanced degree	2
Employment	
Full-time	9
Part-time	3
Unemployed/retired/disability	4
Income ^a	
\$10–19,000	1
\$20–29,000	1
\$30–39,000	1
\$40–49,000	1
\$50–59,000	3
>\$70,000	8

^a One person did not report his/her income.

interview focused on experiences related to the surgery and weight
loss. Drafts of the interview guides were revised accordingly after
review by food choice researchers, clinicians who worked with gastric
bypass patients, and a bariatric surgery recipient. Questions covered
a range of topics on dietary behaviors, weight loss, health, and sur-
gical experiences. Questions also asked participants to compare their
pre-surgery and post-surgery experiences and to reflect on changes
in behaviors, thoughts, and attitudes.

The interview guides were pilot tested with the first partici-
pant. As no major changes were made to the interview guides after
her interview, this participant’s data were included in the analy-
sis. Interviews were conducted in cafeterias, offices, bookstores, and
participants’ homes, as mutually agreed upon by the participant and
researcher. Interviews lasted between 50 and 150 minutes, were
audio-recorded, and transcribed verbatim.

Transcripts were coded for emergent themes using the con-
stant comparative method (Glaser & Strauss, 1967) and a grounded
theory approach (Charmaz, 2000). Codes were created to label each
concept encountered in the transcript. Each subsequent transcript
was coded with these emergent codes and previous transcripts were
reviewed to ensure that no instances of this concept were missed.
Codes were compared across transcripts and categories were formed
by grouping similar or related codes together (Strauss & Corbin,
1990). These emergent categories were then organized into themes.
The researchers met regularly to discuss the emergent categories
and themes and reviewed transcripts when they differed in inter-
pretation. Preliminary analysis suggested that post-surgical dietary
behaviors were directed at one or more goals. The researchers then
employed self-regulation theory to organize these emergent themes.
Self-regulation theories of goal orientation (Bandura, 1991; Carver
& Scheier, 1998) focus on the conscious efforts individuals put forth
toward reaching goals, including planning and implementing behav-
iors (strategies), and monitoring progress towards goal achieve-
ment. Viewing dietary behaviors as strategies within the self-
regulation framework increased depth of understanding by allowing
for connections to be made between the planning, implementa-
tion, and monitoring of behaviors.

The subsequent analysis of all 32 transcripts focused on the iden-
tification of dietary strategies, goals, and monitoring behaviors. The

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