"Your own pace, your own path": perspectives of adolescents navigating life after bariatric surgery

Ming K. Li, Thrmiga Sathiyamoorthy, Andrea Regina, Michele Strom, Alene Toulany and Jill Hamilton

INTRODUCTION: Bariatric surgery, an established weight-loss tool, may be offered to some adolescents with severe obesity. However, few studies explore adolescents’ postoperative experiences beyond physical and metabolic outcomes and quality-of-life measures.

METHODS: Between 2016 and 2021, 45 semi-structured interviews were conducted with adolescents (16–20 years) at 6 months (N = 15), 12 months (N = 15), and 24 months (N = 15) following bariatric surgery. A deductive thematic analysis framework was applied by two independent coders (Cronbach’s α = 0.84). Themes were identified and refined iteratively, and discrepancies were resolved through discussion.

RESULTS: Five major themes emerged related to: (1) weight-loss expectations vs. reality, (2) social landscape, (3) body image, (4) eating and moving, and (5) challenges for long-term success. The pace of and satisfaction with weight loss and side effects was heterogenous among participants, with most changes occurring early and stabilizing by 24 months. Adolescents adapted over time to their new social landscapes (e.g., relationships) and reported improved body image and confidence, yet persistently struggled to reconcile their internal identity with evolving external perceptions and discomfort with new attention. Participants experienced changes to lifestyle routines after surgery (e.g., eating, moving, habits), which introduced distress at 6 months but resolved over time. Life transitions in early adulthood (e.g., moving away, university/college, employment), concurrent with their evolving and increasing autonomy, physical, social, and financial independence, imposed unexpected challenges to postoperative routines and support systems. Participants unanimously reaffirmed that bariatric surgery is a lifelong journey and that they were committed to long-term success.

CONCLUSION: Our findings provide insight into optimizing adolescent selection for bariatric surgery and perioperative support. Specifically, important life transitions during this developmental period impact postoperative experiences and outcomes and adolescents may benefit from postoperative counseling focused on managing weight-loss expectations and adapting to evolving nutritional needs and changing social circumstances.
METHODS
Our research team included an endocrinologist and clinician-investigator (JH), a clinical psychologist experienced in working with adolescent bariatric surgery patients (AR), an adolescent medicine specialist (AT), as well as a STOMP research coordinator (MS) and research assistants (ML and TS). All team members are experienced in qualitative research [22, 23].

Patient population
The Hospital for Sick Children (SickKids) is the largest academic pediatric tertiary referral center in Canada, and was the only center offering bariatric surgery for adolescents in Canada until 2019. From January 2009 to June 2020, 59 bariatric surgery procedures have been performed at our center by a pediatric surgeon in conjunction with a high-volume adult bariatric surgeon, conforming to best practice guidelines [1].

All bariatric surgery candidates are identified from the SickKids Team Obesity Management Program (STOMP), a 2-year program with behavioral modification to encourage healthy lifestyle choices through individual counseling and group sessions. Patients who express interest in surgery are assessed by the interdisciplinary STOMP team and referred for surgery based on guideline-recommended criteria [1]. Our center offers laparoscopic vertical sleeve gastrectomy (VSG) and Roux-en-Y gastric bypass (RYGB) procedures, and patients choose their preferred procedure, unless medically contraindicated.

Preoperative preparation involves psychosocial assessments with a psychologist and education sessions with a nurse/nurse practitioner, diettian, and exercise counselor regarding pre- and postoperative routines. Candidates attend individual and group coaching sessions, including a bariatric surgery support group, which connects candidates with postoperative patients to understand their experiences.

Following surgery, patients are followed in the program for 2 years. Follow-up care includes a postoperative surgery support group, individual assessments with the interdisciplinary care team, and regular medical follow-up. Patients are then transitioned to primary care providers with access to dietary support. A practical reference guide was developed by our provincial network of adult bariatric programs to assist with management of bariatric surgery patients in primary care [24].

Patient recruitment
All English-speaking STOMP patients who underwent bariatric surgery between 2016 and 2020 were eligible. In total, 26 patients were approached by our research team 2–4 months before their scheduled surgery to explain the study timeline, which included a preoperative interview and 3 postoperative interviews (6 months, 12 months, and 24 months following surgery). Twenty-three patients consented and enrolled in the study.

Data collection
Between 2016 and 2021, 60-min semi-structured individual interviews were conducted with patients aged 16–20 years across three timepoints following surgery: 6 months, 12 months, and 24 months. Interviews were conducted in-person or via Zoom by research coordinators trained in qualitative research methodology. The interview guide (Supplementary) was developed by team members (JH and AR) with clinical experience with adolescent bariatric surgery patients. Key questions prompted reflection on whether and how surgery has met their expectations for weight loss, physical function, social relations, mood and self-image, and support systems. All interviews were recorded, de-identified, and transcribed verbatim.

Parents/caregivers were not involved in the interviews, since our goal was to explore the adolescent perspective without input or potential influences from parents/caregivers, especially since some interview questions revolved around patients’ thoughts on their perceived family support, environment, care, and other support systems.

Analysis
Transcripts were analyzed using Dedoose Version 8.3.45 [25]. A deductive thematic analysis framework was developed (ML and TS) and reviewed (MS and JH). The analysis framework was informed by Nowell et al.’s adaptation to Braun and Clarke’s methodology [26, 27]. Transcripts were selected for analysis via purposive sampling to balance demographic characteristics, type of surgery, surgery date, and to minimize attrition across all three timepoints. The remaining transcripts were reviewed by investigators to ensure no new themes emerged. Transcripts were coded and analyzed until thematic saturation was reached. To ensure no new substantial themes emerged, transcripts were periodically assessed at each timepoint throughout analysis as per Guest et al. [28]. Two independent coders (ML and TS) adapted the coding framework concurrently to ensure inter-rater reliability (Cronbach’s α = 0.84) and maintain a consistent coding process while resolving conflicts through discussion. All reviewers discussed and refined final themes to ensure internal coherency and consistency. Member checking, a process of verifying the accuracy of final themes with participants was employed to improve reliability and rigor of our analysis [29, 30].

RESULTS
Saturation was reached after 15 interviews at 6 months, 15 at 12 months, and 15 at 24 months, representing 18 participants (5 male, 13 female) aged 17 ± 1 years, with mean percentage weight loss ± SD at 6, 12, 24 months of 21.9% ±0.1, 25.1% ±0.1, and 27.0% ±0.2, respectively (Table 1).

Five themes were identified related to: (1) weight-loss expectations vs. reality, (2) social landscape, (3) body image, (4) eating and moving, and (5) challenges for long-term success. Select quotations characteristic of dominant themes are presented in-text, with others in Table 2.

Weight-loss: expectations vs. reality
Participants distinguished between their hopes for weight loss and setting “realistic expectations” to avoid disappointment: “I’m not a person that sets expectation[s] in general…because I didn’t wanna get let down, I couldn’t imagine losing this much weight” (BS2-24M).

Expectation management varied between participants, with six participants losing more weight or losing weight faster than expected, seven participants experienced weight changes discordant with their expectations, and five reporting disappointment at 12 or 24 months. Some participants were surprised by the magnitude of their weight loss in the first few months following surgery. “It was only like 3 or 4 months in, I was just losing so much weight so quickly…I’ve lost like 100 pounds so it’s still crazy to me.” (BS2-24M).

Participants whose expectations for weight loss were unmet by the 12-month benchmark acknowledged that trajectories may differ for each individual. However, five participants who expressed disappointment with their outcome by 24 months attributed it to their surgery type. Although most were satisfied with their choice despite not fully achieving their desired outcome, two regretted their choice for the VSG over the RYGB, which they believed would have led to greater weight-loss: “I wish
I’d done the bypass instead now…I’m pretty sure it’s more intense and you’re supposed to lose more weight…I’m still not seeing the kind of results I’ve seen [from] friends who did [the RYGB]” (BS4-24M).

Social landscape
Evolving social relationships. All participants described increased comfort engaging in social encounters and accessing new social opportunities, although they felt conflicted by the external validation they received implicitly (i.e., being seen or treated differently after surgery) or explicitly (i.e., comments).

Five participants described feeling more comfortable in public after surgery. This change was more pronounced in participants who moved to new environments (e.g., postsecondary education) shortly after surgery: “before, I definitely avoided a lot of situations because of my weight, like I was so scared to go to college because I was like ‘I didn’t know anybody, it would be hard for me to make friends’, but now [I’ve]made friends so easily” (BS2-24M). Two participants reported receiving romantic attention and increased comfort pursuing romantic relationships: “I ran into this guy at a bus stop and then we started talking. Before, I didn’t have friends so easily” (BS1-24M).

All participants mentioned that most acquaintances were unaware of their surgery and often asked about their weight loss, maintaining a consistent internal identity caused distress across all timepoints, with one participant finding the behavior “rude and very disrespectful” (BS12-6M). This dissonance between being treated differently while maintaining a consistent internal identity caused distress across all timepoints, with one participant finding the behavior “rude and very disrespectful” (BS12-6M).

New and changing experiences. Almost all participants felt that surgery redefined clothes shopping as a social activity by reducing weight-related anxiety and allowing them to shop with their friends: “it’s so much easier to find clothes [now] ‘cuz I used to have anxiety when going clothes shopping…when you have the largest pants in the store but they don’t fit you, it’s like the worst feeling” (BS17-6M).

Most participants were apprehensive about substance use due to medical advice regarding health-related risks of alcohol consumption. Most participants abstained from substances: “before [surgery], I definitely would’ve drank, I would smoke weed…but they said you can’t drink alcohol for a year or so [postoperatively] because it affects your body differently than before,

| Participant ID | Sex | Race       | Age on surgery day | Surgery type | Baseline BMI | Baseline weight (kg) | 6M Weight loss (%) | 12M Weight loss (%) | 24M Weight loss (%) |
|----------------|-----|------------|--------------------|--------------|--------------|----------------------|-------------------|-------------------|-------------------|
| BS1            | F   | White      | 18                 | VSG          | 43           | 110.3                | −28               | −35               | −33               |
| BS2            | F   | White      | 17                 | RYGB         | 52.9         | 136.0                | −29               | −29               | −34               |
| BS3            | M   | White      | 17                 | VSG          | 58.3         | 173.0                | −26               | −38               | −54               |
| BS4            | F   | Black      | 17                 | VSG          | 45.5         | 150.0                | −14               | −15               | −9                |
| BS5            | F   | White      | 17                 | RYGB         | 41           | 95.0                 | −26               | −40               | −33               |
| BS6            | F   | 16         | VSG                | 37.5         | 89.0         | −17                  | −16               | −12               | −12               |
| BS7            | F   | South Asian| 17                 | RYGB         | 39.04        | 99.2                 | −14               | −17               | −23               |
| BS8            | F   | South Asian| 16                 | RYGB         | 42.1         | 120.1                | −16               | −17               | −24M Weight loss (%) |
| BS9            | M   | White      | 18                 | VSG          | 50.9         | 165.9                | −31               | −46               | −44               |
| BS10           | F   | 17         | RYGB               | 51.66        | 139.8        | No visits after 2018  | No visits after 2018 | No visits after 2018 |
| BS11           | F   | Mixed      | 18                 | RYGB         | 54.3         | 147.4                | −7                | −6                | Virtual A/P        |
| BS12           | F   | 16         | VSG                | 65.64        | 169.3        | −13                  | −17               | 56.92             |
| BS13           | F   | White      | 18                 | VSG          | 44.1         | 133.2                | −34               | −31               | No visits in 2020  |
| BS14           | F   | 18         | RYGB               | 53.51        | 136.3        | −16                  | −8                | 48.32             |
| BS15           | F   | Black      | 17                 | RYGB         | 46.8         | 121.3                | −21               | −22               | 24M visit TBD      |
| BS16           | M   | 16         | VSG                | 47.90        | 162.3        | −14                  | −13               | 24M visit TBD      |
| BS17           | M   | White      | 18                 | VSG          | 42           | 135.6                | −37               | −35               | 24M visit TBD      |
| BS18           | M   | White      | 17                 | RYGB         | 40.7         | 137.6                | −28               | −41               | 24M visit TBD      |

VSG sleeve gastrectomy, RYGB Roux-en-Y gastric bypass, BMI body mass index, A/P appointment, TBD to be determined.

I’d done the bypass instead now…I’m pretty sure it’s more intense and you’re supposed to lose more weight…I’m still not seeing the kind of results I’ve seen [from] friends who did [the RYGB]” (BS4-24M).

Social landscape
Evolving social relationships. All participants described increased comfort engaging in social encounters and accessing new social opportunities, although they felt conflicted by the external validation they received implicitly (i.e., being seen or treated differently after surgery) or explicitly (i.e., comments).

Five participants described feeling more comfortable in public after surgery. This change was more pronounced in participants who moved to new environments (e.g., postsecondary education) shortly after surgery: “before, I definitely avoided a lot of situations because of my weight, like I was so scared to go to college because I was like ‘I didn’t know anybody, it would be hard for me to make friends’, but now [I’ve]made friends so easily” (BS2-24M).

All participants reported receiving romantic attention and increased comfort pursuing romantic relationships: “I ran into this guy at a bus stop and then we started talking. Before, I would not have started talking to him…people were uncomfortable with who I was, [and] I wasn’t comfortable either.” (BS1-24M).

Almost all participants recognized changes in attention and external perceptions as early as 6 months postoperatively, especially among those with whom they never previously connected. Participants also received explicit comments such as ‘oh my gosh like you look so different’, or ‘I didn’t recognize you’ (BS18-6M). Some viewed this positively: “before surgery, because I was so overweight, I feel like people felt uncomfortable around me…afterwards, my relationships with people have gotten stronger in a sense, I feel more open towards them and I feel like they’re more open towards me too” (BS6-6M). However, many participants were conflicted between embracing new social opportunities or rejecting them based on their belief that weight should not influence relationships: “I wouldn’t have really wanted to have a friend just because I look better like this…it’s kind of shallow. Obviously, I appreciate people are nicer, but [I’m] the same person” (BS4-6M). This dissonance between being treated differently while maintaining a consistent internal identity caused distress across all timepoints, with one participant finding the behavior “rude and very disrespectful” (BS12-6M).

All participants mentioned that most acquaintances were unaware of their surgery and often asked about their weight loss, but they shared information selectively and often disengaged to protect their mental health.

New and changing experiences. Almost all participants felt that surgery redefined clothes shopping as a social activity by reducing weight-related anxiety and allowing them to shop with their friends: “it’s so much easier to find clothes [now] ‘cuz I used to have anxiety when going clothes shopping…when you have the largest pants in the store but they don’t fit you, it’s like the worst feeling” (BS17-6M).

Most participants were apprehensive about substance use due to medical advice regarding health-related risks of alcohol consumption. Most participants abstained from substances: “before [surgery], I definitely would’ve drank, I would smoke weed…but they said you can’t drink alcohol for a year or so [postoperatively] because it affects your body differently than before,
so I’m staying away from that until the doctor says ‘you can try it’. (BS6-6M). Six participants experimented with cannabis and alcohol, but emphasized that they exercised caution and avoided binge-drinking or behaviors they believed would pose significant health risks. This was mostly done in social settings, highlighting the role of substance use with peers.

**Body image**
Participants experienced positive impacts of surgery on their body image, confidence, and mood: “the way I look at myself, the way I carry myself, I just feel a lil bit more confident [now]” (BS18-6M). However, they consistently discussed balancing body image improvements with self-consciousness due to postoperative complications (e.g., excess skin, hair loss, awareness of body fat). Most participants were aware of common side effects, although the extent of these experiences was unexpected. Pannus was a prominent one that was expected but generally unwelcome and was a concern at all timepoints: “Since I’ve lost a ton of weight, I have a lot of loose skin… it’s [been] so frustrating, because my body would look so good if I didn’t have this loose skin” (BS2-24M). One
participant discussed that although bigger bodies and stretch marks are becoming commonplace, excess saggy skin is not. In fact, this participant had a visceral reaction to their pannus: “It’s on my body and I think it’s gross…it’s gross to feel, it’s gross to look at” (BS 13-24 M). Consequently, three participants mentioned considering plastic surgery to reduce excess skin after weight stabilization.

All participants were warned of hair loss, but several were surprised by how quickly and to what degree this occurred: “they said ‘you’re gonna lose hair’, and I’m like ‘I [already] shed handfuls a day, I’m not gonna lose more hair’, but it’s just been coming out in bucket-loads.” (BS1-6M). One participant mentioned the long-lasting impacts at both 12- and 24-months: “I wasn’t expecting that much [hair loss] and it’s still not growing back” (BS7-24M).

Eating and moving

Eating feels different. Participants noted that surgery changed their eating routines, food choices, and food consciousness. All participants struggled with acute logistic adjustments in eating (i.e., smaller portions, more frequent intake, tracking nutrients) and attributed this difficulty to a mind-body disconnect: “it’s your stomach that got surgery, so your brain doesn’t know that your stomach is smaller so you will just eat like normal…but you have to control yourself” (BS12-6M). Dumping syndrome symptoms (i.e., nausea/vomiting, reflux, and stomach pain after eating) seemed most pronounced at 6 months and resolved with time as participants adjusted to new routines: “I didn’t believe them at first…but there’s no way to cheat, or else the dumping syndrome will be very very bad…I wanted[ed] to throw up all the time after I ate” (BS12-6M). Some noticed that their new eating routines reduced cravings, food-snaking, mindless or binge-eating behaviors, and changed their relationship with food: “before, I didn’t have any control over it, so I’d just keep eating…now because it’s easier to tell when I’m full, I know when to stop.” (BS6-6M).

Many participants also noted that surgery changed their palette and necessitated adaptation to new preferences and tolerances. It was noted that high-fat and high-sugar foods (e.g., pop, pizza, ice cream) which were previous favorites now made them sick, and that their palette expanded to include more fruits and vegetables. This was a welcomed change as they were invested in their health: “This was a welcomed change as they were invested in their health: that their palette expanded to include more fruits and vegetables. and necessitated adaptation to new preferences and tolerances. It

Lifelong journey. All participants recognized by 24 months that bariatric surgery is a lifelong journey requiring perseverance and commitment for long-term success: “it is like a big life change, it does pay off…there will be obstacles…but they’re just obstacles, they’re not like stop signs” (BS6-24M). Most participants were anxious and fearful of regaining weight. One participant described weight maintenance as a lifelong battle: “It’s sort of got me like ‘am I gonna be fighting this weight for the rest of my life?’” (BS13-24M). Following medical instructions (i.e., vitamin supplements, eating routines) postoperatively proved challenging for participants: “I didn’t do exactly what the doctor told me to do…now I still [don’t] but I know I should” (BS8-24M). Similarly, another participant talked about the importance of mental wellness: “[Although] I lost the weight, at the end of the day [I]realized…I wasn’t super happy…My weight loss journey was everyone telling me to lose weight…I’m realizing I was happy when I was overweight…so, I’m just kind of learning to accept the change.” (BS15-24M). Mental health conditions factored into the long-term success of our patients as they often influenced patients’ satisfaction with postoperative outcomes, perceptions of evolving body image, and acceptance of suboptimal weight loss (e.g., weight regain, reduced weight loss, etc.).

Sources of support. The importance of both external (family, friends, healthcare team) and internal (self-motivation) sources of support was highlighted across all interviews. Overwhelmingly, participants appreciated the support they received from family and friends in regaining stability postoperatively and saw this support as a necessity in achieving sustainable long-term goals. However, one participant grappled with micromanagement: “It can sometimes be too much of like ‘you need to be eating’…I like that they’re so caring, but at the same time I’m just like ‘back off a little bit’” (BS1-6M).

Participants appreciated structured postoperative care and guidelines provided by the healthcare team: “I really look forward to the weekly dietitian visits because there’s always a new challenge, whether it’s a new holiday or me going away for a week…[it’d] be so hard to go through that…I wouldn’t know how to handle any of it” (BS6-6M). However, as mentioned above, the pandemic has impacted many participants’ routines, including their ability to regularly attend surgery support groups.

Participants provided advice for other adolescents considering bariatric surgery, emphasizing making an informed, autonomous decision, setting realistic expectations for outcomes, and being ready for change. Although some participants did not follow medical recommendations (e.g., vitamin supplements), they suggested future participants should avoid non-adherence.
Participants also discussed the importance of focusing on individual journeys and avoiding comparison: “don’t focus too much on the numbers…take it at your own pace, follow your own path…do what you need to do, and success will come” (BS11-12M).

**DISCUSSION**

This qualitative study followed the perspectives of 18 adolescent bariatric surgery patients at 6, 12, and 24 months postoperatively. The predominant themes identified related to (1) weight-loss expectations vs. reality, (2) social landscape, (3) body image, (4) eating and moving, and (5) challenges for long-term success. Adolescents were primarily positive or ambivalent about their personal experiences following bariatric surgery.

To our knowledge, studies following adolescence after bariatric surgery have been reported from the United States [17], Europe [2, 13, 18, 19, 31, 32], and Qatar [33]. Most reports were cross-sectional, with some including one-year follow-up. Accounting for differences in geography and healthcare systems, study methodology, and number of participants assessed, our findings build on existing literature.

Longitudinal follow-up of participants enabled temporal tracking of participants’ perspectives. There was significant focus on weight-loss benchmarks and physical adjustments (e.g., dumping syndrome) at 6 months. By 12 and 24 months, acute distress due to physical changes resolved for most participants, although many increasingly reported challenges of maintaining routines due to significant life transitions. Post-operative support from our interprofessional team was critical to address internal and external challenges to sustaining daily routines. Examples include patients working closely with our dietitians to develop self-management strategies for problematic eating behaviors, and attending surgery support group sessions for social support and peer advice on adhering to postoperative guidance. Patients also recognized the need to develop self-management skills to normalize setbacks and continue working towards their goals, aligning with recent literature on the importance of embracing self-management for long-term success [34].

Similar to other reports, most adolescent patients felt increased body comfort and physical mobility, improved confidence, and greater capacity to pursue other endeavors (e.g., part-/full-time employment and post-secondary education) after bariatric surgery [12, 13, 17]. Although most of our participants reported improved body image and confidence, some struggled to reconcile their internal identity with evolving external perceptions and expressed discomfort with new attention to their weight loss. Thus, it is important to provide peri- and postoperative support on body image and the possible impact on social relationships.

Consistent with our findings, three studies reported that body dissatisfaction is common among those with unrealistic weight-loss goals, which cannot be achieved by bariatric surgery alone [18, 35, 36]. In contrast, participants achieving better postoperative outcomes endorsed realistic pre-surgical expectations [13, 27]. Although there were numerous positive experiences, some participants in our study offered a nuanced outlook on their weight loss. A novel observation includes participants being discouraged by the slowdown of weight loss by 24 months and worry about weight regain. These findings demonstrate the need for expectation management for weight loss and associated nutritional needs.

All other short-term studies recognized that adolescent patients struggled and experienced the loss of follow-up as they transitioned to adult healthcare. Childerhose et al. and Nordin et al. suggest that surgery timing is an important factor in optimizing postoperative outcomes [17, 19]. Our participants did not share this experience, perhaps attributable to our continued 2-year STOMP postoperative follow-up before transitioning to adult care. However, they reported challenges with other life transitions (e.g., moving out, employment, education) and emerging independence (e.g., financial/food security, kitchen access, transportation). Personalized counseling to help adolescents prepare for the impact of life transitions postbariatric surgery is an important consideration during this unique developmental period.

Literature suggests lower alcohol use rates in adolescent bariatric surgery patients due to sensitization, although those who did consume alcohol were more likely to binge-drink due to increased socialization and replacement of food with alcohol as a coping mechanism [37]. In our cohort, higher-risk behaviors such as excessive substance use were not highlighted, as they mostly reported cautious, responsible use or abstinence from substances. The underreporting of these behaviors could be due to self-reporting bias.

Research suggests these patients are more likely to engage in high-risk sexual activity due to a lack of preparedness, reporting higher-than-anticipated pregnancy rates in an adolescent bariatric surgery cohort [16, 38]. In our cohort, a few participants disclosed increased sexual activity or new romantic relationships. These findings, while limited, demonstrate a need for proactive patient education on safe sexual practices.

This study fills a research gap in the adolescent population, which lags behind adult bariatric surgery literature. In contrast to qualitative studies in adult studies, this study highlights several unique features of the adolescent bariatric population. As mentioned above, the transition from adolescence to early adulthood is a challenging period to undergo bariatric surgery, as life transitions (i.e., increased autonomy, evolving social support, financial independence) pose unique disruptions to weight maintenance and consistent postoperative routines. These factors coalesce to impact their social interactions with peers, family members, sexual partners, etc. As a result of their changing social landscape, they may experience limited control over their weight maintenance routines compared to adults [39]. The transition from pediatric to adult healthcare during the early postoperative period, leading to patients feeling “lost in the system”, is also a unique challenge for this population [11, 19].

A strength of this study is limited selection bias, as the majority of patients who underwent bariatric surgery at our institution participated in this study, irrespective of outcome satisfaction. Furthermore, participants were diverse in terms of ethnic background, sex, and socioeconomic status. Two-year postoperative follow-up also minimized limitations cited by other studies including loss to follow-up as patients transitioned to adult healthcare, and allowed us to capture temporal trends in qualitative outcomes. This practice aligns with evidence demonstrating benefits of a structured transition program [19, 40].

Our findings may be limited by social desirability bias due to the self-report nature of our interviews. Consequently, higher-risk or less adherent behaviors may be underreported. Furthermore, the COVID-19 pandemic complicated postoperative care, follow-up frequency, and ability to maintain postoperative routines. For example, Athanasiadis et al. identified that postoperative bariatric patients regained some weight during the COVID-19 pandemic due to more snacking, more anxiety, and less engagement with aerobic exercise [41].

An area for future exploration includes the perspectives of healthcare providers and caregivers. These additional insights will contribute to a holistic view of the adolescent bariatric surgery process and further strengthen perioperative support for these patients.

In summary, this study contributes to the growing body of research on postoperative experiences of adolescent bariatric surgery patients over a 2-year period. Important implications for clinical practice include discussing the timing of surgery with future participants to ensure they are well-informed, and managing expectations in the context of important life transitions.
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throughout the formative years of adolescence. Our participants valued ongoing support from the healthcare team after surgery, thus a delayed transition of care postoperatively after 18 years of age is likely beneficial given the known challenges youth face in transitioning from youth to adult care [19, 40]. Furthermore, programs should provide clear, realistic expectations for weight loss and anticipated changes in eating to minimize disappointment or body dysmorphia. For patients who have slow weight loss, close examination of contributory factors should be explored early by the healthcare team. Similarly, our study highlights the complexities of social interactions following weight loss. Anticipatory guidance may help teens navigate these relationships.

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AUTHOR CONTRIBUTIONS

AR, AT, MS, and JH contributed significantly to the study’s conception and design and data collection. ML and TS led the data analysis, interpretation, and manuscript preparation. All authors contributed to editing and revising the manuscript. All authors have read and approved the final manuscript.
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