Impact of liposuction on quality of life and body image

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Background: People seek to be physically attractive and the need to fit the beauty model. This urge to meet unrealistic ideals lead to discontent with an individual's body image. Liposuction is a procedure that helps in weight redistribution according to a patient's ideal. This study investigated the impact of liposuction on the quality of life of a patient and body image in a sample Kenyan population.

Methods: This was a prospective observational study that was conducted in the three centres. Patients were subjected to BODY-Q questionnaire, preoperatively and 6 months post-operatively. Data collected included: patients' demographics, body semblance evaluation, health-associated life quality measures, complications postoperatively, and technique of surgery used. Differences between the pre-and post-op scores were assessed using a paired t-test or the repeated measure ANOVA. A p-value of <0.05 was considered statistically significant.

Results: The study included 50 patients, with a mean age of 35.4 years and a BMI of 28.0 kg/m². The factors that had an effect on certain domains of the quality-of-life included age (p-value = 0.019), BMI (p-value = 0.049)., surgical procedure (p-value = 0.034), and postoperative complications (p-value = 0.049. The quality of life improved after surgery.

Conclusion: The findings emphasise the positive effect that liposuction has on patients.

Keywords: Liposuction, quality of life.

esthetic surgery such as liposuction is often considered a low-priority intervention, with frivolity and apparent lack of substantial benefit being the main criticisms against it (1,2). As such, a majority of healthcare insurance companies shy away from covering aesthetic procedures as they consider them trivial (3). Although the obvious objective is to make a part of the body more beautiful, the reasons for the patient to undergo expensive risky procedures despite the lack of any pathologic signs, are of a more complex nature (4).

The importance of health and fitness, as well as the ardency placed on beauty and youthfulness, have increased in the last 30 years (5). The need to be considered physically appealing as well as the urge to attain the conventional idyllic beauty is continually gaining importance in our modern society. This is further worsened by the unrealistic ideals that are depicted in the media which for most people, are unattainable in a natural way (6,7).

The ensuing dissatisfaction with their body image has led to low self-esteem, social isolation, sex life impairment, anxiety as well as feelings of rejection from their peers which negatively impacts their quality of life (4,5). As a result, liposuction is one of the aesthetic procedures with the highest demand. However, differences in both body image satisfaction and quality of life perception exist across ethnic groups. As compared to Caucasians, Black women are less likely to idealize thinnerframes and tend to prefer larger body sizes as these are seen to be more appealing (8). Further, within the African culture, larger body size was traditionally considered a sign of wealth and social status (9). In previous studies in Western and European populations, there were significant improvements following liposuction concerning life in general, health, body image and emotional stability with significant reduction in anxiety and psychological distress (6,10,11). In the 21st century, the degree of acculturation in Africa with Western customs is significantly increasing which could thus alter the image of the body and quality of life perception due to liposuction in unforeseen ways (12,13). However, there has been no local study that had assessed the aforementioned and there remained a paucity of data as best known to us. Thus, this study aimed to determine the impact of liposuction on patients' satisfaction on life quality as well as the image of the body in a sample Kenyan population.

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Methods

We conducted a multicentre prospective observational study in the following collaborating institutions: Platinum Surgery Centre, Da Vinci Hospital, and Coptic Mission Hospital. All the participants in the study underwent liposuction, were above 18 years and comprised of both sexes.

Patients with overt body dysmorphic disorder, those undergoing liposuction for non-aesthetic indications, and those who were cigarette smokers were excluded from the study. Patients who had another aesthetic procedure within 6 months of liposuction that had the potential of affecting the quality of life, body image, and patient satisfaction were dropped from the study. Participants were selected through non-probability convenience sampling. Patients who presented to the clinics, wards, and theatres were recruited into the study by either the principal investigator or the presiding plastic surgeon. Written informed consent was sought from each patient. History taking and physical exams were performed for each patient and only those who met eligibility criteria were subjected to the BODY-Q tool pre-operatively and after 6 months post op.

The patient demographics that were collected included age, weight, height, body mass index (BMI), Educational level, and occupation. Body image evaluation was done using BODY-Q tool measuring the following related quality of life measures: physical function, psychological function, obesity symptoms, expectations from surgery, social function, and sexual function. The licence to use the BODY-Q questionnaire was obtained from Dr Andrea Pusic, a plastic surgeon and health services researcher at Memorial Sloan Kettering Cancer Center in New York City. The technique employed in liposuction. the amount of lipoaspirate, and its effect on the quality of life was also recorded.

The BODY-Q questionnaire, is a validated tool designed by Memorial Sloan Kettering Cancer Center in New York City, to measure Patient-Related Outcomes (PRO) among patients undergoing loss of weight and body contouring procedures like liposuction. This questionnaire comprised three main domains namely: semblance, health-associated life quality as well as the patient's experience with care. Each domain had sub-themes that were measured with independently functioning scales. The appearance domain was used to assess the patient's satisfaction with the appearance of various body parts like the buttocks, abdomen, thighs, hips, and upper arms. The health-associated life quality domain was used to assess the image of the body, symptoms of obesity, psychosocial stress related to appearance as well as physical, psychological, social and sexual function. The experience of care domain was left out in this

study as it did not affect patient life quality as well as body semblance following liposuction. Since the questionnaire was lengthy and tedious, the Principal Investigator guided the participants in filling the questionnaire highlighting the areas of the questionnaire that were relevant to the patient's particular procedure. All scales were changed into scores that rangedfrom zero to a hundred with a greater score implying a better outcome. Collected data were assigned codes and inputted into SPSS (IBM version 25). Scores on life quality, body semblance as well as patient contentment were calculated. Statistically significant differences between pre-and post-op scores were established using a paired t-test or the repeated measure ANOVA when testing associations for selected characteristics of the patients. A p-value of <0.05 for all the statistical tests was considered statistically significant.

Results

Characteristics of the patients

The mean age of the patients was 35.4 (SD 6.8) years, where the lowest age was 22.0 years, and the highest was 51.0 years. Most patients recruited for the study were females (98%). The mean BMI of the patients was 28.0 (SD 4.1) kg/m². Most patients had post-secondary education (88.0%), were business people (54.0%), and were from Da Vinci Hospital (60%). [Table 1].

Intraoperative

From table 2, the mean volume suctioned was 4744.4 (SD 1606.1), while the median volume suctioned was 4534 with an IQR of 3800.0 - 5700.0. The mean duration of the surgeries was 3.8 hours (SD 0.7), while the median duration of the surgeries was 4 hours with an IQR of 3.0 -4.0hours. Thirty out of the fifty procedures carried out were VASER; which was 60% of all the procedures. Power assisted liposuction took 28%, while SAL took 12%.

Postoperative complications

There were no postoperative complications on 35 out of the 50 patients (70%). Most of the 15 who experienced postoperative complications had a seroma (33.3%). Anaemia and infections were the second most common complication, representing 20% of the complications each. Other complications included keloids (6.7%), left abdominal abscess (6.7%), lipoma (6.7%), and skin necrosis (6.7%).

Impact of patient demography on satisfaction and quality of life pre and post liposuction.

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A repeated measures mixed ANOVA (Analysis of Variance) was performed to determine the impact of age on satisfaction and quality of life pre and post liposuction. The results on Table 5 indicate that age had no effect on all domains of the BODY-Q with the exception of social function (p value = 0.019) and appraisal of excess skin (p value = 0.041). No effect implies the difference in the score for the before and after for the age groups were comparable i.e. no age group exhibited a high difference than the other. For social function, patients aged 30 and below had higher scores for before and after in comparison to the other age groups, and the before and after difference of 16.8 was not comparable to the 33.2 and 30.1 for age group 31-40 and more than 40 years old. This was the case for appraisal for excess skin which also had the highest scores for the before and after, where the difference for the before and after for the 30 and below age group of 6.2 was not comparable to the 29.8 and 37.8 for the age groups of 31-40 and more than 40 vears old.

The results on Table 6 indicate that BMI had no effect on all domains of the BODY-Q except for satisfaction with back (p-value = 0.049). The satisfaction with back scores for before were decreasing as BMI increases, while the after scores were comparable, and this would have implication on their differences where the difference for the before and after for those whose BMI is normal would be smaller than the other BMI groups. The results on Table 7 indicate that patients' surgical procedure had no effect on all domains of the BODY-Q apart from physical function (p-value = 0.034), and satisfaction with abdomen (p-value = 0.008). On physical function, those that had undergone the SAL procedure had a poor score for before procedure (Mean 63 SD8.2) when compared to the others. The after scores for the procedures were comparable with the SAL procedure having the highest score (Mean 100 SD0.0).

Liposuction complications and their effects on quality of life and patient satisfaction

The results in Table 8 indicate that patients' post-op complications had no effect on all domains of the BODY-Q with the exception of expectations (p-value = 0.049), satisfaction with the abdomen (p-value = 0.004), satisfaction with the chest (p-value = 0.041), and satisfaction with upper arms (p-value < 0.001). Patient expectations scores for before and after for those with complications were lower when compared to those patients without complications, and the differences between the scores for the two groups were borderline significant (p-value = 0.049). For satisfaction with the abdomen, the scores were lower for both before and after for the patients that experienced complications when compared to those

patients without complications, though the differences in the scores for before and after for the two groups were comparable (p-value = 0.004). On satisfaction with chest, the differences in the before and after for the patients with complications, and the differences for the before and after for those without complications were statistically significant (p-value = 0.041). For satisfaction with upper arms, the differences in the before and after for the patients with complications, and the differences for the before and after for those without complications were statistically significant (pvalue < 0.001).

Quality of Life after Liposuction

Except for expectations for the surgery (p-value = 0.578), satisfaction with the chest (p-value = 0.089), and appraisal of body contouring scars (p-value = 0.058), the quality of life of the patients improved after the surgery compared to before. The scores for expectation for the surgery increased marginally after the surgery; the results were not statistically significant. The satisfaction with the chest increased after the surgery substantially. However, these results were not statistically significant. The satisfaction were not statistically significant. The satisfaction were not statistically significant. The statistically significant. The statistically significant. The scores for appraisal for body contouring scars increased marginally. The results, too, were not statistically significant.

Discussion

Healthcare is increasingly becoming more patient centred. Psychosocial domains such as selfesteem and quality of life and body image are considered important when evaluating the benefits of medical intervention. The study sought to determine the effects of liposuction on patients' quality of life. Our patients' demographic data containing age and BMI, which was found to be normal on average, were in line with previous studies. In the current study there is consistency in all the age groups for the scores of the BODY-Q questionnaire before and after selfassessment except in two domains-social function and appraisal of excess skin. Patients aged less than thirty had higher scores post-liposuction compared to other age groups. Age was also noted to be a notable factor when appraising excess skin with significantly higher scores post liposuction (Table 5). This is in contrast to previous studies whereby age was not statistically significant in determining patient satisfaction (14) or was actually a predictor of poor outcomes post operatively (14).

In this study, patients with normal BMI were more likely to be satisfied with their back preoperatively compared to patients with a high BMI. Post-operatively the scores were comparable except for those with a BMI>30 whose scores were significantly lower. This is similar to a study conducted by Young et al. (15) on morbidly obese patients who were undergoing abdominal lipectomy whereby all patients were noted to obtain symptomatic respite. However, astonishingly majority had looked forward to being more attractive following surgery, denoting the significance of deliberating this facet preoperatively. In contrast, a study by Nyakiongora et al.(16) showed that patients with higher BMI prior to abdominoplasty were more satisfied with the procedure than thosewith lower preoperative BMI. This was demonstrated further by Hammond et al. who found high satisfaction rates in patients with high BMI (17). In this study 28% of the patients underwent Power Assisted Liposuction (PAL), 12% underwent SAL and in the remaining 60%, VASER was performed (Table 3). The ideal procedure for liposuction for many years has been the "Suction Assisted Liposuction' also known as SAL. This was reproduced in our study whereby, patients who had undergone SAL in our study had significantly higher post-operative scores in the physical function domain compared to those who used the other two techniques. However, latest technologies have since emerged with variable assertions on skin retraction, complete and painless evacuation of fat as well as a quicker recuperation (18). Patients who underwent SAL in our study had more appearance-related psychosocial distress post operatively compared to those who underwent liposuction using other techniques. This could be attributed to the fact that VASER device's 0-Low occurrence of complications, while mean complication occurrence with earlier devices is approximately 5 percent. Additionally, VASER not only aids in comprehensive fat removal in normal as well as challenging areas but also aids in achieving some extent of skin retraction (19). On the other hand, Power Assisted Liposuction (PAL) has several advantages as well: the micro cannulas are often employed in PAL thus resulting in smaller scars: PAL has no potential for burn injury and liposuction lasts a lot less making PAL securer for patients; and post-op pain is also decreased with PAL.

The severe complications rate post-liposuction is relatively low ranging from 0.7% to 1.4% as evidenced by current studies with the many patients exhibiting localised reversible complications (6). However, 30% of the patients in this study experienced at least one post-operative complication. The most common complication was the formation of a seroma (33.3%) followed by the occurrence of anaemia (20%) and infection (20%). Patients with complications had significantly lower expectations post operatively compared to those with no complications (p=0.049) ((Table 8). This is unlike patients with no complications post operatively who had higher scores reflecting more satisfaction with the

procedure and outcomes. Quality of life (QoL) is a key criterion in addition to the objective clinical outcome when evaluating treatment success. A person with a high QoL is characterized as having satisfactory relationships, active, self-confident, has a fundamental mood of joy, a feeling of well-being and a relief of mental distress (20). Attention should shift to the multidimensionality as well as the subjectiveness of QoL tools and measurements. Widely acceptable and standardized instruments of testing must be employed in the evaluation of the complex construct of QoL (6). The BODY-Q is a meticulously created Patient-Reported-Outcome (PRO) measure constructed to assess consequences for obese patients who achieve weight loss via exercise, diet and/or bariatric surgery/medicine, as well as body contouring patients (following enormous weight loss and for cosmetic reasons). The BODY-Q is composed of a sequence of independently functioning scales that measure three domains (appearance, HRQL, and experience of healthcare). In this study we focused on the first two domains. The study findings reiterated the positive effect aesthetic surgery such as liposuction has on QoL. Our findings showed significantly higher scores post operatively in most of the appearance and HRQL domains. Thus, liposuction was noted to significantly improve body image, social, physical, psychological and sexual function (p=<0.001). Additionally, it also helped to significantly reduce appearance related psychosocial distress. This is similar to a prospective study carried out by Saariniemi et al (2015) where body satisfaction was improved post operatively and the risk for an eating disorder was reduced significantly.

Liposuction improved the general perception of personal appearance with patients in this study being noted to have increased satisfaction post operatively with their back, abdomen, buttocks, upper arms, hips and outer thighs. These findings differ from what Nyakiongora et al. found in their study. They noted that the use of liposuction was not found to have an effect on patient satisfaction.

Some of the limitation in the study included the loss of follow-up of some patients and the length of the questionnaire was off-putting to the participants. However, this was mitigated by ensuring the principal investigator guided the participants in filling in the questionnaires. Ten percent more participants were included in the study to cater for the loss of follow up.

Conclusion

The findings in this study serve to emphasize the positive effect that liposuction has on patients' quality of life, self-esteem, body image, and satisfaction with their body. Thus, this study hasprovided local data that will aid healthcare

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providers during the provision of liposuction. Further, it shall help improve public awareness of the benefits of liposuction apart from aesthetic concerns.

Conflicts of interests

No conflicts of interest relevant to this article.

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Table 1 Patients' chara	acteristics			
		Frequency (n=50)		Percent
Age in years				
≤30		13		26.0
31 - 40		23		46.0
>40		14		28.0
Gender				
Male		1		2.0
Temale		49		98.0
MI				
8.5 - 24.9		10		20.0
5.0 - 29.9		26		52.0
30.0		14		28.0
ducation				
econdary		6		12.0
ertiary		44		88.0
Occupation				*
usiness		27		54.0
mployed		27		44.0
Tousewife		1		2.0
		I		2.0
udy site		-		
optic		6		12.0
VC		30		60.0
С		14		28.0
Table 2: Technique of	liposuction			
		Frequency (n=50)	Percent	t
Power assisted		14	28.0	
SAL		6	12.0	
VASER		30	60.0	
Table 2: D-414				
Appearance related ps	sychosocial dist	tress		
	30	31-40	>40	p-value
Betore 56	C 1 01 0	$\lambda / +$	49.6 ±	0.302
Defore	5.3 ± 21.9	12.0	18.4	
After 15	5.3 ± 21.9 5.4 ± 37.6	12.0 2.8 ± 7.8	18.4 2.9 ± 9.3	
After 15 Expectations	5.3 ± 21.9 5.4 ± 37.6		18.4 2.9 ± 9.3	
After 15 Expectations Before 95	5.3 ± 21.9 5.4 ± 37.6 5.9 ± 10.1	$ \begin{array}{r} 34.3 \pm \\ 12.0 \\ 2.8 \pm 7.8 \\ \hline 94.9 \pm \\ 11.2 \\ \end{array} $	$ 18.4 2.9 \pm 9.3 93.6 \pm 12.7 $	0.422
After 15 Expectations Before 95 After 10	5.3 ± 21.9 5.4 ± 37.6 $\overline{5.9 \pm 10.1}$ 00.0 ± 0.0	$ \begin{array}{r} 34.3 \pm \\ 12.0 \\ 2.8 \pm 7.8 \\ \end{array} $ 94.9 ± 11.2 93.2 ± 13.4	$ \begin{array}{r} 18.4 \\ 2.9 \pm \\ 9.3 \\ 93.6 \pm \\ 12.7 \\ 96.2 \pm \\ 7.0 \\ \end{array} $	0.422

Before	49.4 ± 32.2	35.3 ±	30.8 ±	0.251
		25.4	20.5	
After	90.9 ± 18.2	$95.9 \pm$	$90.0 \pm$	
		11.3	16.6	
Social function	<u>n</u>	(2.0.)	(5.0.)	0.010
Before	83.2 ± 22.2	$63.8 \pm$	$65.3 \pm$	0.019
A. Ct	100.0 + 0.0	15./	22.9	
Atter	100.0 ± 0.0	$9/.0 \pm$	95.4 ±	
 Psychological	function	9.0	10.0	
Before	81.0 ± 25.4	66.6±	69.7±	0.163
Belole	0110 - 2011	13.4	29.5	01100
After	100.0 ± 0.0	98.4 ±	95.8 ±	
		5.5	11.5	
Physical funct	tion			
Before	87.1 ± 15.5	$80.4 \pm$	$73.4 \pm$	0.291
		22.6	22.1	
After	100.0 ± 0.0	96.4 ±	97.1 ±	
		8.2	11.0	
Sexual functio	m			
Before	50.2 ± 31.0	$52.0 \pm$	45.5 ±	0.446
	00 5 1 15 5	20.9	27.8	
After	90.7 ± 17.7	95.6 ±	86.7 ±	
 Catiof+!	ith ah damar	10.4	22.4	
Satisfaction w		?? ⁰ ⊥	105 ±	0.220
Deloie	52.5 ± 55.2	22.0 ± 17.0	19.3 ± 20.5	0.529
Aftor	02.2 ± 12.5	17.0	20.3 87.5 ±	
Alter	95.2 ± 15.5	91.2 ± 13.7	$\frac{07.3 \pm}{17.4}$	
Satisfaction w	ith back	15.7	1/.4	
Before	45 9 + 32 0	30.1+	28.0+	0.283
Delote	10.0 = 02.0	17.0	19.8	0.205
After	92.8 ± 12.8	$95.4 \pm$	$92.7 \pm$	
		10.8	14.5	
Satisfaction w	ith body			
Before	41.5 ± 22.2	36.3 ±	43.7 ±	0.578
		15.8	17.4	
After	92.3 ± 15.2	91.5 ±	$93.7 \pm$	
		16.4	11.7	
Satisfaction w	rith buttocks			
Before	48.2 ± 40.0	$65.9 \pm$	57.4 ±	0.420
		41.4	32.5	
After	87.7 ± 13.9	$97.4 \pm$	95.4 ±	
~	1.4 A .	9.9	13.1	
Satisfaction w	nth chest	50.0	50.0	0.004
Before		$50.3 \pm$	$50.9 \pm$	0.882
After		9.4	13.9	
Atter		/4.8 ±	70.8 ± 10.5	
Satisfaction w	rith ninnlog	30.6	19.5	
Before	in mppies	100.0		
		100.0		-
After		100.0		
After Satisfaction w	ith upper arms	100.0		
After Satisfaction w Before	ith upper arms 14.0 ± 19.2	25.8 +	273+	0.636
After Satisfaction w Before	ith upper arms 14.0 ± 19.2	100.0 25.8 ± 29.8	27.3 ± 43.8	0.636
 After Satisfaction w Before After	ith upper arms 14.0 ± 19.2 67.6 ± 40.8	$ 100.0 25.8 \pm 29.8 72.9 \pm $	27.3 ± 43.8 82.0 +	0.636
 After Satisfaction w Before After	ith upper arms 14.0 ± 19.2 67.6 ± 40.8	$ 100.0 25.8 \pm 29.8 72.9 \pm 31.5 $	27.3 ± 43.8 82.0 ± 16.1	0.636
 After Satisfaction w Before After Satisfaction w	th upper arms 14.0 ± 19.2 67.6 ± 40.8 th inner thighs	$ 100.0 25.8 \pm 29.8 72.9 \pm 31.5 $	27.3 ± 43.8 82.0 ± 16.1	0.636
After Satisfaction w Before After Satisfaction w Before	ith upper arms 14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0	$ 100.0 25.8 \pm 29.8 72.9 \pm 31.5 66.0 \pm $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm $	0.636
After Satisfaction w Before After Satisfaction w Before	ith upper arms 14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0	$ \begin{array}{r} 100.0 \\ 25.8 \pm \\ 29.8 \\ 72.9 \pm \\ 31.5 \\ \hline 66.0 \pm \\ 0.0 \\ \end{array} $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3$	0.636
 After Satisfaction w Before After Satisfaction w Before After	ith upper arms 14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0 100.0 ± 0.0	$ 100.0 25.8 \pm 29.8 72.9 \pm 31.5 66.0 \pm 0.0 66.0 ± 0.0 66.0 ± 0.0 66.0 ± 0.0 $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3 \\ 77.2 \pm $	0.636
After Satisfaction w Before After Satisfaction w Before After	ith upper arms 14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0 100.0 ± 0.0	$ \begin{array}{r} 100.0 \\ 25.8 \pm \\ 29.8 \\ 72.9 \pm \\ 31.5 \\ \hline 66.0 \pm \\ 0.0 \\ 66.0 \pm \\ 0.0 \\ 0.0 \\ \end{array} $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3 \\ 77.2 \pm 13.9 \\ $	0.636
After Satisfaction w Before After Satisfaction w Before After Satisfaction w	14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0 100.0 ± 0.0 ith hips and outer thighs	$ \begin{array}{r} 100.0 \\ 25.8 \pm \\ 29.8 \\ 72.9 \pm \\ 31.5 \\ \hline 66.0 \pm \\ 0.0 \\ 66.0 \pm \\ 0.0 \\ 0.0 \\ \hline 0.0 \\ \hline 0.0 \\ 0.0 \\ 0.0 \\ \hline 0.0 \\ 0.0 $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3 \\ 77.2 \pm 13.9 \\ 13.9 \\ 13.9 \\ 13.8 \\ 13.9 \\ $	0.636
After Satisfaction w Before After Satisfaction w Before After Satisfaction w Before	14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0 100.0 ± 0.0 ith hips and outer thighs 54.6 ± 25.5	$ 100.0 25.8 \pm 29.8 72.9 \pm 31.5 66.0 \pm 0.0 66.0 \pm 0.0 32.6 \pm 32.6$	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3 \\ 77.2 \pm 13.9 \\ 43.1 \pm $	0.636
After Satisfaction w Before After Satisfaction w Before After Satisfaction w Before	14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0 100.0 ± 0.0 ith hips and outer thighs 54.6 ± 25.5	$ 100.0 25.8 \pm 29.8 72.9 \pm 31.5 66.0 \pm 0.0 66.0 \pm 0.0 32.6 \pm 32.5 32.5 $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3 \\ 77.2 \pm 13.9 \\ 43.1 \pm 36.2 \\ 100000000000000000000000000000000000$	0.636
 After Satisfaction w Before After Satisfaction w Before After Satisfaction w Before After After	14.0 ± 19.2 67.6 ± 40.8 ith inner thighs 0.0 ± 0.0 100.0 ± 0.0 ith hips and outer thighs 54.6 ± 25.5 91.3 ± 16.2	$ \begin{array}{r} 100.0 \\ 25.8 \pm \\ 29.8 \\ 72.9 \pm \\ 31.5 \\ \hline 66.0 \pm \\ 0.0 \\ 66.0 \pm \\ 0.0 \\ 32.6 \pm \\ 32.5 \\ 75.0 \pm \\ \end{array} $	$27.3 \pm 43.8 \\ 82.0 \pm 16.1 \\ 52.8 \pm 36.3 \\ 77.2 \pm 13.9 \\ 43.1 \pm 36.2 \\ 82.5 \pm 36.2 \\ $	0.636

Appraisal of excess skin

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Before	87.7 ± 19.2	$66.7 \pm$	53.6 ±	0.041
		31.7	28.9	
After	93.9 ± 15.0	$96.5 \pm$	$91.4 \pm$	
		11.5	17.0	
Appraisal of s	stretch marks			
Before	60.2 ± 28.5	$70.2 \pm$	$56.9 \pm$	0.278
		27.6	26.4	
After	66.8 ± 20.6	82.1 ±	79.5 ±	
		25.9	12.6	
Appraisal of 1	oody contouring scars			
Before	75.2 ± 24.7	85.7 ±	$79.8 \pm$	0.476
		20.0	27.7	
After	78.3 ± 25.1	$85.7 \pm$	$88.6 \pm$	
		20.0	18.8	
Table 4: Patie	ent BMI on satisfaction a	nd quality of life		
Appearance r	elated psychosocial distre	ess		
	18.5 - 24.9	25.0 -	≥ 30	p-valu
		29.9		
Before	49.0 ± 27.3	$52.3 \pm$	59.1 ±	0.088
		8.6	16.7	
After	0.0 ± 0.0	2.7 ± 7.3	$16.8 \pm$	
			36.5	
Expectations				
Before	96.5 ± 11.1	$92.4 \pm$	98.1 ±	0.075
		12.6	7.2	
After	98.0 ± 4.2	93.1 ±	99.3 ±	
		13.1	27	
Body image		10.1	2.7	
Refore	458+366	38.1+	311+	0 500
Deloie	45.6 ± 50.0	26.9	162	0.500
		20.8	10.2	
After	90.5 ± 20.4	94.6±	91.6 ±	
		13.0	14.1	
Social function	<u>n</u>			
Refore	76 8 + 22 2	674+	674+	0 328
Derere	70.0 = 22.2	21.1	20.2	0.020
		21.1	20.3	
After	100.0 ± 0.0	$98.2 \pm$	93.9±	
		7.9	11.0	
Psychologica	l function			
D 4				
Before	78.4 ± 25.0	71.1±	$66.4 \pm$	0.406
		21.1	23.4	
After	<i>97.7 ± 7.3</i>	99.5±	95.8±	
		2.7	11.5	
Physical func	tion			
Refore	800+160	80.2 +	73.0 +	0 101
	0.0 - 10.7	21.0	26.2	0.191
	100.0	21.0	20.2	
Atter	100.0 ± 0.0	98.2±	94.5 ±	
		6.5	12.1	
Sexual functi	on			
Before	<i>46.3</i> ± <i>26.7</i>	50.0±	51.7±	0.888
		193	34 7	
After	90.7 ± 16.5	0364	80 1 ±	
הווכו	<i>70.7 ± 10.3</i>	93.0 ±	07.4 ±	
Satisfantian -	with abdoman	15.4	19.2	
σαμστασίΩΟΠ V				
Before	<i>32.4 ± 22.2</i>	24.4 ±	18.5 ±	0.162
		24 3	213	
		47.0	41.0	

After	<i>93.9</i> ±11.5	93.3±	83.6±	
Satisfaction w	vith back	14.1	10.1	
				-
Before	40.4 ± 24.8	35.1±	26.0±	0.049
		20.3	26.7	
After	96.6 ± 10.8	97.7±	85.1±	
Satisfaction	with hade	7.4	16.2	
Sausiacuon M	niii boay			
Before	<i>39.2</i> ± <i>27.2</i>	<i>42.8</i> ±	34.4 ±	0.174
		10.5	21.2	
After	<i>95.3</i> ± <i>11.9</i>	94.6±	<i>86.1</i> ±	
		11.9	19.4	
Satisfaction w	vith buttocks			
Before	<i>30.0 ± 26.0</i>	61.9±	69.1 ±	0.460
		40.2	35.4	
After	100.0 ± 0.0	95.1±	<i>91.8</i> ±	
		13.0	16.3	
Satisfaction w	vith chest			
Before	<i>40.7±19.1</i>	.57.0±		0.122
201010	1017 - 1711	55		01122
After	66 3 + 31 3	76.6+		
11101	00.5 ± 51.5	21.4		
Satisfaction w	vith nipples			
Before		100.0		-
After		100.0		
Satisfaction w	vith upper arms			
Before	16.0 + 32.0	26.6+	233+	0 487
Derore	10.0 ± 52.0	20.0 ± 35.0	30.6	0.407
After	570 + 389	80 9 +	75.7 <i>+</i>	
11101	57.0 - 50.5	32.9	16.7	
Satisfaction w	vith inner thighs	32.9	10.7	
Defens	(()))	52.0 /	20.6.1	0.027
Delore	00.0 ± 0.0	52.8 ± 26.2	39.0 ± 26.2	0.827
Aftor	660400	30.3 77.2 ±	30.2 70.6 ±	
Aner	00.0 ± 0.0	//.2 ± 13 0	/9.0 ± 18 6	
Satisfaction w	vith hips and outer thighs	13.7	10.0	
D.C		20.0	50 R -	0.01-
Betore	<i>34.8 ± 26.6</i>	<i>39.8</i> ±	<i>59.7 ±</i>	0.812
		38.3	13.0	
After	100.0 ± 0.0	82.5±	70.8±	
Annraisalof	excess skin	18.3	14.3	
Before	78.6±28.2	67.7±	<i>62.7</i> ±	0.558
		25.2	40.0	
After	<i>92.0</i> ± <i>16.9</i>	96.9±	<i>91.4</i> ±	
A		10.9	17.0	
Appraisal of s	Sureton marks			
Before	55.5±29.5	65.5±	66.9±	0.439
		22.9	34.5	
After	68.5±32.9	$80.5 \pm$	77.9±	

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· · · · · ·		20.0	23.7	
Appraisal of b	ody contouring scars			
Before	79.5 ± 21.6	85.8±	74.3 ±	0.261
		19.9	30.0	
After	<i>83.6</i> ± <i>21.2</i>	<i>89.0</i> ±	77.2 ±	
		18.5	24.5	
Table 5: Patier	nt surgical procedures do	ne on satisfaction and	quality of life	
Appearance re				
	Power	Sal	Vaser	p-val
Before	54.9±6.0	<i>62.7</i> ±	51.1 ±	0.156
		19.4	<i>19.1</i>	
After	3.4 ± 9.7	21.5±	$4.3 \pm$	
		39.8	18.7	
Expectations				
Before	<i>92.2</i> ± <i>12.4</i>	90.3 ±	96.9±	0.058
		15.0	9.5	
After	<i>92.4</i> ± <i>10.6</i>	<i>91.5</i> ±	98.3±	
D <i>1 1</i>		16.4	7.6	
Body image				
Before	<i>23.9</i> ± <i>13.1</i>	37.8±	44.1 ±	0.165
		32.1	28.4	
After	<i>97.2</i> ± <i>10.4</i>	<i>81.8</i> ±	93.2±	
		17.5	15.3	
Social functio				
Before	55.8±9.9	65.3 ±	76.4 ±	0.062
		19.6	22.1	
After	98.4 ± 5.9	97.7±	96.8±	
D 1 1 1 1	1 Constitution	5.7	9.8	
rsychological	runction			
Before	<i>59.9</i> ± <i>15.0</i>	69.5±	71.2 ±	0.170
		26.6	22.5	
After	<i>98.6</i> ± <i>5.1</i>	$100.0 \pm$	$97.4\pm$	
N 1 1 0		0.0	8.6	
Physical funct	นอย			
Before	73.1 ± 30.4	63.0±	<i>87.0</i> ±	0.034
		8.2	16.3	
After	<i>93.6</i> ± <i>13.2</i>	$100.0 \pm$	$98.8 \pm$	
		0.0	4.6	
Sexual function	n			
Before	<i>41.9</i> ±18.3	37.0±	55.9±	0.382
		20.1	27.6	
After	<i>95.6</i> ± <i>16.3</i>	$88.8\pm$	90.7 \pm	
<u></u>	•.e e e	18.1	16.5	
Satisfaction w	nth abdomen			
Before	<i>32.5 ± 9.4</i>	1.2 ± 2.9	25.2 ±	0.008
			26.9	
After	<i>95.6</i> ± 10.0	79.5±	90.6±	

Before	<i>33.0 ± 12.9</i>	22.0±	36.2 ±	0.364
		17.0	23.2	
After	<i>97.6</i> ± <i>9.1</i>	<i>89.0</i> ±	93.3 ±	
		13.9	13.1	
Satisfaction w	vith body			
Before	<i>39.9</i> ± <i>12.7</i>	<i>31.0</i> ±	<i>41.3</i> ±	0.314
		18.6	19.9	
After	<i>97.2</i> ± <i>10.4</i>	<i>85.7±</i>	<i>91.4</i> ±	
		19.4	15.1	
Satisfaction v	vith buttocks			
Before	<i>58.7±43.7</i>	81.5±	55.6±	0.638
		21.4	39.8	
After	100.0 ± 0.0	$90.8 \pm$	<i>94.7</i> ±	
		18.5	13.3	
Satisfaction w	vith chest			
Before	<i>51.0</i> ± <i>0.0</i>	61.0	<i>48.8</i> ±	0.138
			17.5	
After	100.0 ± 0.0	61.0	64.2±	
			22.3	
Satisfaction v	vith nipples			
Before	100.0			-
After	100.0			
Satisfaction v	vith upper arms			
Before	5.7±9.8	50.0±	29.6±	0.500
		70.7	30.3	
After	<i>84.6</i> ± <i>12.4</i>	84.5±	65.9±	
		21.9	36.6	
Satisfaction w	vith inner thighs			
Before	<i>16.0 ± 0.0</i>	55.3 ±	56.6±	0.152
		50.8	24.9	0.101
After	77.0 ± 0.0	88.7±	70.9±	
		19.6	12.9	
Satisfaction w	vith hips and outer thighs			
Before	12.5 ± 15.8	66.0±	45.0±	0.12
		40.8	24.9	
After	<i>82.5 ± 20.2</i>	79.0±	85.0±	
		19.2	18.0	
Appraisal of a	excess skin			
Before	<i>54.6 ± 24.7</i>	56.7±	77.3 ±	0.210
		32.0	30.2	
After	<i>97.1 ± 10.7</i>	93.3±	93.3±	
		16.3	15.2	
Appraisal of s	stretch marks			
Before	57.3 ± 21.7	63.8±	67.0±	0.98
		19.8	31.2	
After	<i>85.1</i> ± <i>21.1</i>	74.0±	74.5±	
		21.0	25.6	
Appraisal of i	body contouring scars			
Refore	76.0 + 27.5	60 7 <i>±</i>	<i>85</i> 7⊥	0.22
DUIDE	10.7 - 21.3	09.1 -	$o_{J.}/ \pm$	0.223

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er 79.8±21.0	24.5 76.5 ± 26.6	20 88 19	9.8 8.5 ± 9.7	_
le 6: Quality of life before an	d after	- D (10	
		Before	After	p-value
pearance related psychosocia	l distress	53.5±	6.1 ±	<0.001
		16.7	20.6	
<i>vectations</i>		$94.8 \pm$	95.8±	0.578
		11.2	10.1	
ly image		37.7±	<i>93.0</i> ±	<0.001
		26.6	14.8	
ial function		69.3 ±	97.3±	<0.001
		21.0	8.3	
chological function		71.2±	98.1 ±	<0.001
		22.5	7.1	
sical function		$80.2 \pm$	97.5±	<0.001
		22.1	8.0	
ual function		<i>49.7±</i>	91.8±	<0.001
		25.3	16.5	
sfaction with abdomen		24.3±	<i>90.7±</i>	<0.001
		23.2	14.6	
sfaction with back		33.6±	<i>94.0</i> ±	<0.001
		23.2	12.2	
sfaction with body		39.7±	92.3 ±	<0.001
-		18.0	14.7	
sfaction with buttocks		59.6±	<i>94.7±</i>	<0.001
		38.0	13.2	
sfaction with chest		50.9±	72.8±	0.089
		13.9	23.9	
sfaction with nipples				
sfaction with upper arms		23.3±	74.3 ±	<0.001
		31.4	29.5	
sfaction with inner thighs		49.5±	76.3 ±	0.046
		32.5	14.9	
sfaction with hips and outer	thighs	43.9±	83.3 ±	<0.001
		31.5	17.9	
praisal of excess skin		$68.5\pm$	<i>94.4</i> ±	<0.001
		30.4	14.0	
vraisal of stretch marks		63.9±	77.4 ±	<0.001
		27.6	23.9	
vraisal of body contouring sc	ars	81.3±	<i>84.6</i> ±	0.058
-		23.5	21.0	

Table 7: Patient surgical procedures done on satisfaction and quality of life Appearance related psychosocial distress

	Power	Sal	Vaser	p-value
Before	54.9 ± 6.0	62.7 ± 19.4	51.1 ± 19.1	0.156
After	3.4 ± 9.7	21.5 ± 39.8	4.3 ± 18.7	
Expectations				
Before	92.2 ± 12.4	90.3 ± 15.0	96.9 ± 9.5	0.058
After	92.4 ± 10.6	91.5 ± 16.4	98.3 ± 7.6	
Pody image				

Body image

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Before	23.9 ± 13.1	37.8 ± 32.1	44.1 ± 28.4	0.165
After	97.2 ± 10.4	81.8 ± 17.5	93.2 ± 15.3	
Social function				
Before	55.8 ± 9.9	65.3 ± 19.6	76.4 ± 22.1	0.062
After	98.4 ± 5.9	97.7 ± 5.7	96.8 ± 9.8	
Psychological fu	inction			
Before	59.9 ± 15.0	69.5 ± 26.6	71.2 ± 22.5	0.170
After	98.6 ± 5.1	100.0 ± 0.0	97.4 ± 8.6	
Physical function	n			
Before	73.1 ± 30.4	63.0 ± 8.2	87.0 ± 16.3	0.034
After	93.6 ± 13.2	100.0 ± 0.0	98.8 ± 4.6	
Sexual function				
Before	41.9 ± 18.3	37.0 ± 20.1	55.9 ± 27.6	0.382
After	95.6 ± 16.3	88.8 ± 18.1	90.7 ± 16.5	
Satisfaction with	h abdomen			
Before	32.5 ± 9.4	1.2 ± 2.9	25.2 ± 26.9	0.008
After	95.6 ± 10.0	79.5 ± 17.2	90.6 ± 15.1	
Satisfaction with	h back			
Before	33.0 ± 12.9	22.0 ± 17.0	36.2 ± 23.2	0.364
After	97.6 ± 9.1	89.0 ± 13.9	93.3 ± 13.1	
Satisfaction with	h body			
Before	39.9 ± 12.7	31.0 ± 18.6	41.3 ± 19.9	0.314
After	97.2 ± 10.4	85.7 ± 19.4	91.4 ± 15.1	
Satisfaction with	h buttocks			
Before	58.7 ± 43.7	81.5 ± 21.4	55.6 ± 39.8	0.638
After	100.0 ± 0.0	90.8 ± 18.5	94.7 ± 13.3	
Satisfaction with	h chest			
Before	51.0 ± 0.0	61.0	48.8 ± 17.5	0.138
After	100.0 ± 0.0	61.0	64.2 ± 22.3	
Satisfaction with	h nipples			
Before	100.0			-
After	100.0			
Satisfaction with	h upper arms			
Before	5.7 ± 9.8	50.0 ± 70.7	29.6 ± 30.3	0.506
After	84.6 ± 12.4	84.5 ± 21.9	65.9 ± 36.6	
Satisfaction with	h inner thighs			
Before	16.0 ± 0.0	55.3 ± 50.8	56.6 ± 24.9	0.152

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After	77.0 ± 0.0	88.7 ± 19.6	70.9 ± 12.9			
Satisfaction with hips and outer thighs						
Before	12.5 ± 15.8	66.0 ± 40.8	45.0 ± 24.9	0.123		
After	82.5 ± 20.2	79.0 ± 19.2	85.0 ± 18.0			
Appraisal of excess skin	L					
Before	54.6 ± 24.7	56.7 ± 32.0	77.3 ± 30.2	0.210		
After	97.1 ± 10.7	93.3 ± 16.3	93.3 ± 15.2			
Appraisal of stretch mar	ks					
Before	57.3 ± 21.7	63.8 ± 19.8	67.0 ± 31.2	0.981		
After	85.1 ± 21.1	74.0 ± 21.0	74.5 ± 25.6			
Appraisal of body conto	uring scars					
Before	76.9 ± 27.5	69.7 ± 24.5	85.7 ± 20.8	0.223		
After	79.8 ± 21.0	76.5 ± 26.6	88.5 ± 19.7			

 Table 8: Patient liposuction complication and their effect on satisfaction and quality of life

 Appearance related psychosocial distress

	Yes	No	p-value
Before	53.2 ± 10.9	53.7 ± 18.8	0.974
After	6.2 ± 12.0	6.1 ± 23.6	
Expectations			
Before	90.9 ± 12.9	96.5 ± 10.1	0.049
After	92.5 ± 14.2	97.2 ± 7.5	
Body image			
Before	41.2 ± 33.8	36.2 ± 23.3	0.395
After	83.8 ± 20.3	96.9 ± 9.7	
Social function			
Before	67.9 ± 20.8	69.9 ± 21.3	0.498
After	94.9 ± 11.6	98.4 ± 6.4	
Psychological function	l		
Before	75.7 ± 22.5	69.3 ± 22.5	0.452
After	97.8 ± 5.9	98.2 ± 7.7	
Physical function			
Before	77.4 ± 23.6	81.4 ± 21.6	0.614
After	97.3 ± 10.6	97.6 ± 6.9	
Sexual function			
Before	45.3 ± 22.0	51.6 ± 26.7	0.102
After	83.7 ± 21.8	95.3 ± 12.5	

Satisfaction with abdomen

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Before	11.9 ± 15.8	29.7 ± 23.9	0.004
After	83.6 ± 16.8	93.7 ± 12.6	
Satisfaction with bac	k		
Before	33.6 ± 27.5	33.6±21.6	0.922
After	93.3 ± 12.5	94.2 ± 12.3	
Satisfaction with boo	iy		
Before	38.2 ± 12.5	40.3 ± 20.0	0.592
After	90.6 ± 12.7	93.1 ± 14.4	
Satisfaction with but	tocks		
Before	76.6 ± 28.1	52.9 ± 39.9	0.075
After	100.0 ± 0.0	92.6 ± 15.2	
Satisfaction with che	st		
Before	51.0 ± 0.0	50.8 ± 16.4	0.041
After	100.0 ± 0.0	63.7 ± 20.0	
Satisfaction with nip	ples		
Before	100.0		-
After	100.0		
Satisfaction with upp	per arms		
Before	0.0 ± 0.0	27.4 ± 32.5	<0.001
After	21.3 ± 37.0	83.7 ± 15.5	
Satisfaction with inn	er thighs		
Before	66.0 ± 0.0	46.2 ± 34.9	0.759
After	66.0 ± 0.0	78.4 ± 15.5	
Satisfaction with hip	s and outer thighs		
Before	27.3 ± 24.5	49.8 ± 32.3	0.194
After	82.5 ± 19.2	83.5 ± 18.0	
Appraisal of excess	skin		
Before	63.5 ± 33.3	70.6 ± 29.3	0.569
After	94.7 ± 14.1	94.3 ± 14.2	
Appraisal of stretch	marks		
Before	59.8 ± 27.7	65.7 ± 27.7	0.851
After	79.5 ± 23.4	76.5 ± 24.3	
Appraisal of body co	ontouring scars		
Before	02.1 + 25.4	80 (+ 22 0	0.712
	83.1 ± 27.4	80.6 ± 22.0	0.712