Face lifts are among the most common operations for facial aging and perhaps the procedure most synonymous with plastic surgery in the minds of the lay public. Nearly 130,000 face lifts were performed in the United States last year. A limited number of studies have attempted to assess patient outcomes after face lifting, but the lack of a standardized outcome tool has made assessment of patient satisfaction difficult. Recently, the FACE-Q has been established as a validated tool for evaluating patient satisfaction and outcomes in aesthetic facial surgery. Our goal was to use a validated questionnaire to assess patient-reported satisfaction after face lifting.

**PATIENTS AND METHODS**

One hundred five patients undergoing a face lift between 2011 and 2014 performed by the senior author (C.H.T.) using a high, extended superficial musculoaponeurotic system (SMAS) technique with submental dissection and platysmaplasty were asked to complete anonymously the FACE-Q by e-mail. FACE-Q scores were assessed for each domain (range, 0 to 100), with higher scores indicating greater satisfaction with appearance or superior quality of life.

**Results:** Fifty-three patients completed the FACE-Q (50.5 percent response rate). Patients demonstrated high satisfaction with facial appearance (mean ± SD, 80.7 ± 22.3), and quality of life, including social confidence (90.4 ± 16.6), psychological well-being (92.8 ± 14.3), and early life impact (92.2 ± 16.4). Patients also reported extremely high satisfaction with their decision to undergo face lifting (90.5 ± 15.9). On average, patients felt they appeared 6.9 years younger than their actual age. Patients were most satisfied with the appearance of their nasolabial folds (86.2 ± 18.5), cheeks (86.1 ± 25.4), and lower face/jawline (86.0 ± 20.6), compared with their necks (78.1 ± 25.6) and area under the chin (67.9 ± 32.3).

**Conclusion:** Patients who responded in this study were extremely satisfied with their decision to undergo face lifting and the outcomes and quality of life following the procedure. (Plast. Reconstr. Surg. 136: 239, 2015.)

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4. Satisfaction with Outcome: Measures patient satisfaction with the overall outcome of the procedure.
5. Satisfaction with Decision: Measures patient satisfaction with their decision to undergo the procedure.
7. Aging Appraisal Visual Analogue Scale: Asks patients how old they believe they appear compared with their actual age (patients answer in years).
8. Area-Specific Appearance Appraisal: Patients were also asked to complete the following five scales that evaluate satisfaction with specific facial areas: cheeks, nasolabial folds, lower face and jawline, area under chin, and neck.

All FACE-Q scales ask patients to answer items with facial appearance in mind. Patients were sent the FACE-Q scales electronically by means of an e-mail from the senior author (C.H.T.) emphasizing the anonymous nature of this study. Rasch-transformed scores (range, 0 to 100) were assessed for each domain.12 Higher FACE-Q scores indicate greater satisfaction with appearance, process of care (outcome or decision), or superior quality of life (social confidence, psychological well-being, or early life impact). Data analysis was conducting using IBM SPSS Version 21.0 software (IBM Corp, Armonk, N.Y.).

RESULTS
Fifty-three patients completed the FACE-Q, for a 50.5 percent response rate. Patients ranged in age from 50 to 80 years, with a mean of 63.0 years (Table 1). The follow-up interval ranged from 3 to 72 months.

Appearance Appraisal
Following a face lift, patients demonstrated high levels of satisfaction with facial appearance overall (mean ± SD, 80.7 ± 22.3) (Table 2). Regarding the specific area appearance appraisal, patients demonstrated high levels of satisfaction in all areas evaluated. However, patients were most satisfied with the appearance of their nasolabial folds (86.3 ± 18.5), cheeks (86.1 ± 25.4), lower face and jawline (86.0 ± 20.6), compared with satisfaction with the appearance of their necks (78.1 ± 25.6) and area under the chin (67.9 ± 32.3).

Quality of Life
Patients also exhibited high levels of quality of life, including in social confidence (90.4 ± 16.6), psychological well-being (92.8 ± 14.3), and early life impact of the procedure (92.2 ± 16.4). On average, patients felt they appeared 6.9 years younger than their actual age, with 40 of 45 patients (88.8 percent) believing they appeared at least 5 years younger than their actual age.

Process of Care
Patients reported high satisfaction with the decision to undergo and the outcome of the procedure.

DISCUSSION
The evolution of the modern face lift began with Skoog, who described a subfascial dissection.13 Mitz and Peyronie soon after described the superficial musculoaponeurotic system.14 Subsequently, numerous techniques have been described that include a variety of skin incisions, dissection planes and boundaries, and fixation techniques. Instead of one technique being superior to another, it is likely that a competent, experienced surgeon using one of several techniques can produce a satisfactory result in the appropriately selected patient.
Although several studies have attempted to compare outcomes between various techniques, a systematic review by Chang et al. concluded that there is a paucity of high-quality data to determine the safety and efficacy among techniques. The authors also pointed out the need for a validated patient-reported outcomes measure to best allow for comparison. Other patient satisfaction surveys for face lifting have been used previously but were not developed scientifically as rigorous patient outcome measures. A systematic review of all patient-reported outcome measures for facial rejuvenation revealed the need for an instrument to most accurately obtain patient satisfaction and outcomes in facial surgery. The FACE-Q was subsequently developed as a validated questionnaire to assess patient satisfaction and outcomes for various procedures in facial cosmetic surgery.

The extended SMAS dissection is the face-lift technique most commonly used by the senior author. It involves a transverse incision in the SMAS above the zygomatic arch and preauricular vertical incision along the sternocleidomastoid muscle. The SMAS in the cheek and the platysma are elevated in continuity. Dissection is extended over the zygomaticus major muscle in the malar region and beyond the anterior edge of the parotid gland in the cheek, releasing the retaining ligaments. The SMAS-platysma flap is then rotated superiorly and posteriorly. The flap is redraped as vertically as possible with fixation along a line extending from the ear to the malar eminence. Once fixed superiorly in this fashion, the flap is fixed to the mastoid peristeum. All fixation is performed with Vicryl (Ethicon, Inc., Somerville, N.J.) sutures. Fat grafting is performed on an individual patient basis but in much smaller volumes than has been reported in the literature (seldom more than 10 cc per case). The patients also had a submental incision with approximation of the platysma muscles in the midline using a single layer of buried, interrupted Vicryl sutures. Liposuction and/or direct excision of preplatysmal, subplatysmal, and jowl fat is performed on an individual basis.

The results of the present study show high patient satisfaction with overall facial appearance, nasolabial folds, lower face, and jawline. Confidence, psychological well-being, and early life impact after the face lift were also rated high. Patients on average felt they appeared 6.9 years younger, which is 3.8 years younger than another report in the literature. The neck and area underneath the chin had favorable but lower satisfaction scores.

Of note, the senior author’s primary goal when performing the extended SMAS flap is to improve the contour of the jawline, which correlated with higher scores. We were surprised to learn how much patients were satisfied with the appearance of their nasolabial folds, an area that the senior author believes is not significantly improved by his technique. This may be an example of the common phenomenon of patients perceiving things differently from the surgeon. Similarly, the patients reported less satisfaction with the neck and higher satisfaction with the jawline, two areas that the surgeon sees as related. It may be that the patients are referring to the lower neck where rhytides and excess skin are not improved by face lifting, rather than the enhanced appearance of the upper neck from a cleaner jawline.

This study makes no attempt to establish the relative efficacy of the high, extended SMAS technique compared with any other technique. Rather, the sole purpose is to assess satisfaction after face lifting generally, using a validated questionnaire, because no such study has been reported. It is likely that a sample of the same surgeon’s patients taken after a longer interval between surgery and completion of the FACE-Q would yield different results. It is also likely that factors such as the relationship the patients have with the surgeon, the urban environment where the senior author practices, and the age and socioeconomic status of the patients influenced their satisfaction. Other samples of face-lift patients from other parts of the world may have resulted in different outcomes, even if the results were identical.

In this study, the patients knew that their responses were anonymous. The e-mailed responses were collated without any knowledge of the origin of any individual response and without communicating any information about any response to the authors. It is possible that the more dissatisfied patients did not complete the questionnaire. The responses might have been more positive if the patients thought their surgeon would see or receive information about their answers.

Limitations of this study include lack of preoperative sampling. Having patients complete the FACE-Q in the office during follow-up would have guaranteed a higher response rate and likely generated more positive responses. Future studies should assess satisfaction after longer follow-up compared with the short follow-up in this study. In addition, one could assess patient outcomes when one or more procedures are combined (i.e., face lifts versus face lift with blepharoplasty versus brow lift). Finally, although patient satisfaction was high, the evaluation of prospective data may allow us to focus on areas where satisfaction is less, to refine techniques and improve outcomes.
Satisfaction after face lifting, or any cosmetic procedure, is enormously complex. The number of factors that impact an individual’s satisfaction is so large that it would be impossible to match groups sufficiently to compare one technique versus another. Even if those factors could be identified, they would be virtually impossible to quantify; patients’ baseline attractiveness, happiness, expectations, personal relationships, self-image, and personal relationships are probably more important than the choice of a particular technique in determining subjective satisfaction.

CONCLUSIONS

Patients who responded in this study were extremely satisfied with their decision to undergo face lifting and the outcomes and quality of life following the procedure. In this era where the search for noninvasive alternatives to face lifting is relentless, this study demonstrates that face lifting should not be discarded as the standard against which other procedures are compared until a time when other procedures can demonstrate comparable satisfaction.

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