Miniskirts, cropped shirts, low cut pants are just a few of today’s fashion trends. Preteens, adolescents, and women are all molded by society in their way of what to wear and how to wear it. No matter what the fashion and media dictates, not everyone has the perfect body to accommodate these trends. Good diet habits and exercise may be helpful, but localized fat pockets cannot disappear with them. Microliposuction can permanently remove this localized fat with minimal downtime, discomfort, and risk.

Microliposuction and microlipoextraction refers to a small amount of fat extraction by liposuction in the range of 20cc to 110cc. I consider microliposuction when the lipoextraction is in the range of 200cc to 300cc, which has essentially about 15cc to 200cc of pure fat.

**Evaluating Microliposuction**

**Patient Selection.** An ideal candidate for microliposuction has localized fat and good skin elasticity and tone. The vest areas to have this procedure performed include: 1) young person with a full and round face. (The face is unforgiving and special expertise and caution is required. I do not recommend liposuction of the face in the elderly patient with poor skin elasticity); 2) neck; 3) fullness (hump) of the upper back; 4) anterior and posterior auxiliary fullness; 5) lower abdomen and flanks ; 6) medial and lateral thighs; 7) knee region; 8) arms and elbows.

**Consultation.** Like any other plastic surgical procedure, usually two preoperative consultations are required. The initial consultation involves a medical history, physical examination, and a detailed discussion of the surgical procedure, including potential risks and complications and alternative methods. It also involves taking photographs of the patient with different views.

During the second consultation, the procedure is discussed further and all questions are answered. Postoperative instructions and garments are given to the patient, who signs witnessed consents. One important point in the preoperative consultation is to have the patients understanding that a secondary procedure might be needed. There is 5% to 10% chance of the patient requiring a secondary or touch-up procedure. This is discussed at length with the patient, who is also advised that there may be an additional, minimal surgical charge. However, the facility and anesthesia charges are the sole responsibility of the patient.

**Surgical Procedure.** The procedure is a same day surgery performed in an outpatient facility under a local anesthesia with or without intravenous (IV) sedation. General anesthesia is usually not required for this type of surgery. Preoperative markings are done in the standing position with the blue and red permanent makers. Blue markers indicate the area to be suctioned with an "X" mark at the most prominent area of the fatty deposit. The red marker is used as the reference points and lines and to mark the areas that suction should be avoided. Preoperative photos are used in the operating room.
yield excellent results. Lipoextract can be used for fat deposits undergoing microliposuction, spot liposuction can be avoided to keep all the fibers, blood vessels, and nerves intact and help redrape the skin in the postoperative period.

Suctioning is performed either with the blunt cannula about 2- to 2½-mm in size and suction pump, or by the use of 10- to 20-cc syringes connected to 1- or 2-mm blunt cannulas with one or two holes at the end. Sometimes multiple access sites are used to achieve better contouring of the area.

To and fro motion of the cannula is used. The lateral movement of the cannulas’ “windshield wiper” movement is avoided to keep all the fibers, blood vessels, and nerves intact and help redrape the skin in the postoperative period.

In the macroliposuction, a spot liposuction is not recommended. However, for patients with localized fatty deposits undergoing microliposuction, spot liposuction can yield excellent results. Lipoextract can be used for fat grafting such as the patient in Figure 1 who had fat grafting done for a deep depression deformity of the lateral thigh. The follow-up image, done 15 years later, shows complete correction of the deformity.

Fluids are squeezed through the access incision and a skin closure is done with a 6/0 black nylon suture. No drains are used. A pressure dressing or garment is applied. The patient can remove the dressing the next day and wash the garment, take a shower, and wear the garment for the next 7 to 10 days.

**Postoperative Care** An antibiotic and a mild pain medication are given postoperatively. Minimal bruising and discomfort is expected. The patient can return to work the next day. No pressure or massaging the suctioned is done. However, if the patient develops nodules, hardness, of rippling, massaging the area a few times a day, starting 2 to 3 weeks after the initial procedure is done. Secondary procedures are done at least 6 months, or ideally 1 year, after the initial procedure (if needed).

### Avoiding Risks and Complications

The potential risks and complications of microliposuction, like any other surgical procedure, include bleeding, infection, pain, and scarring. However, microliposuction has minimal chance of the above complications. The average postoperative findings are mild discomfort and minimal bruising and hyposthesia. In my experience of more than a few thousand liposuction cases since 1982, only two young patients developed low oxygen saturation in the immediate postoperative period. Both patients were asymptomatic, but had rales at the base of both lungs and chest x-rays showed a pattern of pulmonary edema. Both patients responded with steroids, IV fluids, and diuretics.

They were kept in the hospital overnight and discharged the following day with complete recovery.

In the past 21 years, I have never seen a case of bleeding, wound infection, skin slough, or significant irregularity in any of my liposuction cases. In microliposuction, none of the above complications ever noted and most of the time, the patient is back to regular activities the following day.

Because of the increased demand to be fit and look good, microliposuction with a minimal amount of morbidity and rapid recovery, is an ideal procedure for young individuals with localized lipodystrophy. As far as the cost is concerned, microliposuction, because of the shorter duration of the operative procedure, is much less costly than regular liposuction, and since most of the surgical procedures are done in a matter of 1 hour, the cost usually is about 20% of the cost of macroliposuction.

**Mokhtar Asaadi, MD, FACS** is a board certified plastic surgeon practicing in West Orange, NJ. He can be reached through his website: [http://www.asaadimd.com](http://www.asaadimd.com)