



# CANADIAN PLASTIC SURGERY CENTRE

## **Informed Consent** **Brachioplasty with Liposuction/ Power Assisted Liposuction**

## **INSTRUCTIONS**

This is an informed-consent document that has been prepared to help inform you about brachioplasty surgery and liposuction, its risks, as well as alternative treatment(s).

It is important that you read this information carefully and completely. Please initial each page, indicating that you have read the page, and sign the consent for the surgery, as proposed by your plastic surgeon and agreed upon by you.

## **GENERAL INFORMATION**

1. Brachioplasty (arm lift) is a surgical procedure that is used to help remove excess skin and fat tissue from the axilla and upper arm. Brachioplasty is not a surgical treatment for being overweight. Obese individuals who intend to lose weight should postpone all forms of body-contouring surgeries until they have reached a stable weight.

There is a variety of different techniques used by plastic surgeons for brachioplasty. Brachioplasty can be combined with other forms of body-contouring surgeries, including suction-assisted lipectomy or other elective surgeries.

2. Liposuction is a surgical technique to remove unwanted deposits of fat from specific areas of the body, including the face and neck, upper arms, trunk, abdomen, buttocks, hips and thighs, and the knees, calves, and ankles. This is not a substitute for weight reduction, but a method for removing localized deposits of fatty tissue that do not respond to diet or exercise. Liposuction may be performed as a primary procedure for body contouring or in combination with other surgical techniques such as facelift, abdominoplasty, or thigh lift procedures to tighten loose skin and supporting structures.

The best candidates for liposuction are individuals of relatively normal weight who have excess fat in particular body areas. Having firm, elastic skin will result in a better final contour after liposuction. Skin that has diminished tone due to stretch marks, weight loss, or natural aging will not reshape itself to the new contours and may require additional surgical techniques to remove and tighten excess skin. Body-contour irregularities due to structures other than fat cannot be improved by this technique. Liposuction by itself will not improve areas of dimpled skin known as “cellulite.”

**Liposuction, also called Suction-assisted lipectomy, is a surgical procedure** performed by using a hollow metal surgical instrument known as a cannula that is inserted through small skin incision(s) and is passed back and forth through the area of fatty deposit. The cannula is attached to a vacuum source, which provides the suction needed to remove the fatty tissue. Depending on your needs, your surgeon may recommend suction-assisted lipectomy alone, or in combination with another technique.

A variety of different techniques are used by plastic surgeons for the liposuction procedure and care following surgery. Liposuction may be performed under local, sedation, or general anesthesia. Tumescence liposuction technique involves the infiltration of fluid containing dilute local anesthetic and epinephrine into areas of fatty deposits. This technique can reduce discomfort at the time of surgery, blood loss, and postoperative bruising.

Compression support garments and dressings are worn to control swelling and promote healing.

## **ALTERNATIVE TREATMENTS**

Brachioplasty is an elective surgical operation. Alternative forms of management include not treating the areas of loose skin and fat deposits with surgery. Liposuction surgery may be a surgical alternative to brachioplasty if there is good skin tone and localized fat deposits in an individual of normal weight. Diet and exercise regimens may be of benefit for overall reduction of excess body fat. Nonsurgical external heating or cooling treatments may also be considered to reduce fat. Treatment with deoxycholic acid can also be considered. Risks and potential complications are also associated with alternative forms of surgical treatment.

## **INHERENT RISKS OF BRACHIOPLASTY SURGERY AND LIPOSUCTION**

All surgical procedures involve a certain level of risk, and it is important that you understand these risks and the possible complications associated with them. In addition, every procedure has its limitations. An individual's choice to undergo a surgical procedure is based on the risk-to-benefit comparison of the procedure. Although the majority of the patients do not experience these complications, you should discuss each of them with your plastic surgeon to make sure you understand all possible consequences of a brachioplasty and liposuction.

## **SPECIFIC RISKS OF BRACHIOPLASTY SURGERY AND LIPOSUCTION**

### **Patient Selection:**

Individuals with poor skin tone, medical problems, obesity, or unrealistic expectations may not be candidates for liposuction.

### **Liposuction in General:**

There is a possibility that large volumes of fluid containing dilute local anesthetic drugs and epinephrine that is injected into fatty deposits during surgery may contribute to fluid overload or a systemic reaction to these medications. Additional treatment including hospitalization may be necessary.

### **Change in Sensation:**

It is common to experience diminished (or loss of) skin sensation in areas that have had the surgery (upper arm, armpit). It is rare to experience permanent changes in sensation in the hands and forearms after brachioplasty, but it is possible. Diminished (or complete loss of) skin sensation may not totally resolve after brachioplasty. There is a small risk of motor nerve injury, which may result in impairment of upper extremity/hand function.

### **Skin Discoloration/Swelling:**

Bruising and swelling normally occurs following brachioplasty. The skin in or near the surgical site can appear either lighter or darker than surrounding skin. Although uncommon, swelling (including the forearms and hands) and skin discoloration may persist for long periods of time. And, in rare situations, may be permanent.

### **Sensation of Arm Tightness:**

After lifting the arm skin, there can be a tight sensation in the arm and/or armpit skin. There could potentially be loss of range of motion of the shoulder. This usually subsides over time. Additional surgery may be required to correct this problem.

### **Pain:**

You will experience pain after your surgery. Pain of varying intensity and duration may occur and persist after brachioplasty surgery. Chronic pain may occur very infrequently from nerves becoming trapped in the scar tissue (neuromas), or due to decreased mobility of scarred skin.

### **Delayed Healing:**

Wound disruption or delayed wound healing is possible. Some areas of the skin may not heal normally and may take a long time to heal. Some areas of skin may die or slough off. This may require frequent dressing changes or further surgeries to remove the non-healed tissue. Individuals who have decreased blood supply to the tissue from past surgeries or radiation therapies may be at increased risk for wound healing and poor surgical outcomes. Smokers have a greater risk of skin loss and wound healing complications.

### **Scars:**

All surgeries leave scars, some more visible than others. Although good wound healing after a surgical procedure is expected, this surgery will result in long, prominent scars that are permanent. Abnormal scarring may occur within the skin and deeper tissues. Scars may be unattractive and be of different color than the surrounding skin. Scar appearance may also vary within the same scar. Scars may be asymmetrical (appear different on the right and left side of the body). There is a possibility of visible marks in the skin from sutures. These scars may become raised, red, or discolored in the first few weeks/months, but usually settle down over time. However, some patients are prone to "hypertrophic" or "keloid" scars, i.e. prominent, raised, red scars that do not settle. Further treatments with medications and/or surgeries may be required.

**Seromas (Fluid Collection):**

Though infrequently, fluid may accumulate between the skin and the underlying tissues following surgery, trauma, or vigorous exercises. Should this problem occur, it may require additional procedures for drainage of the fluid. To help prevent this, surgical drains are usually employed.

**Use of Drains:**

During your surgery, your doctor may find it necessary to place a drain(s). A drain is a small tube that drains fluid out from the area that was operated on. You will be instructed on the use of your drain. Placement of the drain may require a small separate incision. The drain will be removed when your doctor feels it is no longer necessary. The drain site may be closed at the time of drain removal. Closing the drain site may require special surgical tape or sometimes a suture. Your doctor may leave the site open to drain any residual fluid under the wound.

**Re-loosening of Skin:**

Almost all patients who have this procedure will notice re-loosening of the skin over time. This occurs due to the body's inherent response to stretch. Patients who have lost massive amounts of weight are prone to this phenomenon. No matter how tight the surgeon makes your skin at the time of surgery, it will re-loosen to a certain degree with time. Each person's skin loosens to a different degree.

**Asymmetry:**

Symmetrical body appearance may not result after surgery. Factors such as skin tone, fat deposits, skeletal prominence, and muscle tone may contribute to normal asymmetry in body features. Most patients have differences between the right and left side of their bodies before any surgery is performed. Additional surgeries may be necessary to attempt to diminish asymmetry.

**Persistent Swelling (Lymphedema):**

Persistent swelling can occur following surgery.

**GENERAL RISKS OF SURGERY**

**Healing Issues:**

Certain medical conditions, dietary supplements, and medications may delay and interfere with healing. Patients with massive weight loss may have a healing delay that could result in the incisions coming apart, onset of infections, and tissue changes, resulting in the need for additional medical care, surgeries, and prolonged hospitalizations. Patients with diabetes, or those taking medications such as steroids on a regular basis, may have prolonged healing issues. Smoking will cause a delay in the healing process, often resulting in the need for additional surgeries. There are general risks associated with healing such as swelling, bleeding, possibility of additional surgeries, prolonged recovery, color and shape changes, infections, unmet patient goals and expectations, and added expenses to the patient. There may also be a longer recovery period due to the length of surgery and anesthesia. Patients with significant skin laxity (like in brachioplasty surgery) will continue to have the same lax skin after surgery. The quality or elasticity of skin will not change, and recurrence of skin looseness will occur at some time in the future, quicker for some than others. There are nerve endings that may be affected by healing scars from the surgery. While there may not be a major nerve injury, the small nerve endings may become too active during the healing period, producing a painful or oversensitive area where the small sensory nerve is embedded within the scar tissue. Often, massage and early non-surgical intervention can resolve this issue. It is important to discuss post-surgical pain with your surgeon.

**Bleeding:**

It is possible, though unusual, to experience a bleeding episode during or after the surgery. Should post-operative bleeding occur, it may require emergency treatments to drain the accumulated blood, or you may require a blood transfusion, though such occurrences are rare. The collection of blood that can occur under your skin following surgery is referred to as a hematoma. Increased activity too soon after surgery can lead to increased chance of bleeding and additional surgeries. It is important to follow postoperative instructions and limit exercise and strenuous activity for the instructed time. Non-prescription "herbs" and dietary supplements can increase the risk of surgical bleeding. Hematoma can occur at any time, usually in the first three weeks following injury to the operative area. If blood transfusions are necessary to treat blood loss, there is the risk of blood-related infections such as hepatitis and HIV (AIDS). Your surgeon may provide

medications after your surgery to prevent blood clots. Medications that are used to prevent blood clots in veins can produce bleeding and decreased blood platelets.

**Infection:**

Infections, although uncommon, can occur after surgery. Should an infection occur, additional treatments, including antibiotics, hospitalization, or additional surgeries, may be necessary. It is important to tell your surgeon of any other infections, such as a history of methicillin-resistant Staphylococcus aureus (MRSA) infections, an open wound, recent upper respiratory infection/pneumonia, ingrown toenail, insect bite, tooth abscess, or urinary tract infection. Infections in other parts of the body may lead to an infection in the operated area. Post-operative infections often result in more extensive scarring and predispose the patient to revision surgery at a later date.

**Firmness:**

Excessive firmness can occur after surgery due to internal scarring. Its occurrence is not predictable. Additional treatments including surgery may be necessary.

**Skin Sensitivity:**

Itching, tenderness, or exaggerated responses to hot or cold temperatures may occur after the surgery. This usually resolves during healing, but in rare situations, it may be chronic.

**Major Wound Separation:**

Wounds may separate after surgery. Should this occur, additional treatments including surgery may be necessary.

**Sutures:**

Most surgical techniques use deep sutures. You may notice these sutures after your surgery. Sutures may spontaneously poke through the skin, become visible, or produce irritation that requires suture removal.

**Damage to Deeper Structures:**

There is the potential for injury to deeper structures including nerves, blood vessels, lymphatics, muscles, and internal organs such as the intestines, liver, kidneys, spleen, and lungs (pneumothorax) during any surgical procedure. The potential for this to occur varies according to the type of procedure being performed. Injury to deeper structures may be temporary or permanent, and may result in significant illness or death.

**Fat Necrosis:**

Fat tissue found deep in the skin may die. This may produce areas of firmness within the skin. Additional surgeries to remove areas of fat necrosis may be necessary. There is a possibility of contour irregularities in the skin that may result due to fat necrosis.

**Surgical Anesthesia:**

Both local and general anesthesia involves risks. There is a possibility of complications, injury, and even death from all forms of surgical anesthesia or sedation.

**Shock:**

In rare circumstances, your surgical procedure can cause severe trauma, particularly when multiple or extensive procedures are performed. Although serious complications are infrequent, infections or excessive fluid loss can lead to severe illness and even death. If surgical shock occurs, hospitalization and additional treatments would be necessary.

**Pain:**

You will experience pain after your surgery. Pain of varying intensity and duration may occur and persist after surgery. If you are a chronic pain patient followed by a pain therapy practitioner, you may be asked to see this practitioner pre-operatively to assist you in the management of your pain disorder during the post-operative period. Chronic pain may occur very infrequently from nerves becoming trapped in the scar tissue, or due to tissue stretching.

There are nerve endings that may become associated with healing scars from surgery. While there may not be a major nerve injury, the small nerve endings may become too active during the healing period, producing a painful or oversensitive area due to the small sensory nerve embedded within the scar tissue. Often, massage and early non-surgical intervention can resolve this issue. It is important to discuss post-surgical pain with your surgeon.

**Cardiac and Pulmonary Complications:**

Pulmonary complications may occur secondarily to blood clots (pulmonary emboli), fat deposits (fat emboli), pneumonia, or partial collapse of the lungs after general anesthesia. Pulmonary emboli can be life threatening or fatal in some circumstances. Inactivity and other conditions may increase the incidence of blood clots traveling to the lungs, causing a major blood clot that may result in death. It is important to discuss with your physician of any past history of swelling in your legs or blood clots that may contribute to this condition. Cardiac complications are a risk with any surgery and anesthetic procedure, even in patients without symptoms. If you experience shortness of breath, chest pains, or unusual heartbeats, seek medical attention immediately. Should any of these complications occur, you may require hospitalization and additional treatments.

**Venous Thrombosis (Clot) and Sequelae:**

Thrombosed veins, which resemble cords, occasionally develop in the area of the breast or around IV sites, and usually resolve without medical or surgical treatments. It is important to discuss with your surgeon any birth control pills you are taking. Certain high estrogen pills may increase your risk of thrombosed veins. Personal history of bleeding and clotting problems may also increase your risk of thrombosed veins.

**Allergic Reactions:**

In rare cases, local allergies to tape, suture material and glues, blood products, topical preparations and injected agents have been reported. Serious systemic reactions including shock (anaphylaxis) may occur in response to drugs used during surgery as well as prescription medicines. Allergic reactions may require additional treatments. It is important to notify your physician of any previous allergic reactions.

**Drug Reactions:**

Unexpected drug allergies, lack of proper response to medication, or illness caused by the prescribed drug are possibilities. It is important for you to inform your physician of any problems or allergies you have had with any medication, prescribed or over the counter, as well as medications you now regularly take. Provide your surgeon with a list of medications and supplements you are currently taking.

**Surgical Wetting Solutions:**

There is a possibility that large volumes of fluid containing dilute local anesthetic drugs and epinephrine injected into the fat deposits during surgery may contribute to fluid overload or systemic reaction to these medications. Additional treatments including hospitalization may be necessary.

**Fat/Air Embolism:**

In rare cases, fat particles or air can enter the vascular system and can travel to the heart, lungs, or the brain. This can result in significant complications including death.

**Unsatisfactory Result:**

Although good results are expected, there is no guarantee or warranty, expressed or implied, on the results that may be obtained. The body is not symmetric, and almost everyone has some degree of unevenness, which may not be recognized in advance. One side of the face may be slightly larger while one side of the face may be droopier. The breast and trunk areas exhibit the same possibilities. Many of such issues cannot be fully corrected with surgery. The more realistic your expectations are, the better your results will appear to you. Some patients never achieve their desired goals or results, at no fault of the surgeon or the surgery. You may be disappointed with the results of surgery. Asymmetry, unanticipated shape and size, loss of function, wound disruption, poor healing, and loss of sensation may occur after surgery. Size may be incorrect. Unsatisfactory surgical scar location or appearance may occur. It may be necessary to perform additional surgeries to improve your results. Unsatisfactory results may NOT improve with each additional treatment.

## **ADDITIONAL ADVISORIES**

### **Medications and Herbal Dietary Supplements:**

There are potential adverse reactions that occur as a result of taking over-the-counter, herbal, and/or prescription medications. Aspirin and medications that contain aspirin interfere with formation of blood clots, and therefore may contribute to more bleeding issues. If you have a medical condition (such as heart arrhythmia, heart stent, blood vessels with blockages, or blood clots), and are taking medications to thin your blood and prevent clotting such as Plavix®, Coumadin®, Xarelto®, Effient®, or Pradaxa®, discuss management of these medications around the time of surgery with your plastic surgeon. Your plastic surgeon may sometimes coordinate a plan for these medications with the doctor that prescribed them to you for your medical condition. If you have been prescribed drugs for a medical condition, do not stop them without discussing it first with your plastic surgeon. Abruptly stopping these medications may result in a heart attack, stroke, or death. Be sure to check with your physician about any drug interactions that may exist with medications that you are already taking. If you have an adverse reaction, stop the drugs immediately and call your plastic surgeon for further instructions. If the reaction is severe, go to the nearest emergency room immediately.

When taking the prescribed pain medications after surgery, realize that they can affect your thought process and coordination. Do not drive, operate complex equipment, make any important decisions, or drink alcohol while taking these medications. Be sure to take your prescribed medication only as directed.

### **Sun Exposure – Direct or Tanning Salon:**

The effects of the sun are damaging to the skin. Exposing the treated areas to the sun may result in increased scarring, color changes, and poor healing. Patients who tan, either outdoors or in a salon, should inform their surgeon and either delay treatment, or avoid tanning until the surgeon says it is safe to resume. The damaging effect of sun exposure occurs even with the use sun block or clothing coverage.

### **Travel Plans:**

All surgeries hold the risk of complications that may delay healing and your return to normal life. Please let the surgeon know of any travel plans, important commitments already scheduled or planned, or time demands that are important to you, so that the surgery can occur at an appropriate time. There are no guarantees that you will be able to resume all activities in the desired timeframe. Allow at least 10-14 days prior to travel via airplane. Medications may be required should you have a long flight/trip to prevent DVT/PE in the immediate post-operative period.

### **Long-term Results:**

Subsequent alterations in the appearance of your body may occur as a result of aging, sun exposure, weight loss, weight gain, pregnancy, menopause, or other circumstances not related to your surgery.

### **Body Piercing:**

Individuals who currently wear body-piercing jewelry in the surgical region are advised that an infection could develop from this activity. Body-piercing jewelry should be removed prior to your surgical procedure.

### **Nails:**

To determine your vitals status during surgery, your anesthesia provider may require access to your fingernails for monitoring. Make sure to have at least two fingernails free of nail polish or acrylic nails on the date of your surgery.

### **Jewelry:**

Jewelry should not be brought with you at the time of your surgical procedure. Items such as earrings, wedding rings, and necklaces should be removed and placed in a safe place.

### **Future Pregnancy and Breastfeeding:**

This surgery is not known to interfere with pregnancy.

### **Information for Female Patients:**

It is important to inform your plastic surgeon if you use birth control pills or estrogen replacement, or if you

suspect you may be pregnant. Many medications including antibiotics may neutralize the preventive effect of birth control pills, allowing for conception and pregnancy.

**Intimate Relations After Surgery:**

Recovery from the surgery involves coagulating of blood vessels, and increased activity of any kind may open these vessels, leading to a bleed, or hematoma. Activities that increase your pulse or heart rate may cause additional bruising, swelling, and the need for return to surgery to control bleeding. It is wise to refrain from intimate physical activities until your physician states it is safe to do so.

**Mental Health Disorders and Elective Surgery:**

It is important that all patients seeking to undergo elective surgeries have realistic expectations that focus on improvements rather than perfection. Complications or less than satisfactory results are sometimes unavoidable. You may require additional surgeries, which are often stressful. Please openly discuss with your surgeon, prior to the surgery, of any history that you may have of significant emotional depression or mental health disorders. Although many individuals may benefit psychologically from the results of the elective surgery, effects on mental health cannot be accurately predicted.

**ADDITIONAL SURGERY NECESSARY (Re-Operations)**

There are many variables that may influence the long-term result of the surgery. It is unknown how your tissue may respond, or how wound healing will occur after your surgery. Secondary surgeries may be necessary to perform additional tightening or repositioning of body structures. Should complications occur, additional surgeries or other treatments may be necessary. Even though risks and complications occur infrequently, the risks cited are associated with this surgery. Other complications and risks can occur, but are less common. The practice of medicine and surgery is not an exact science. Although good results are expected, there is no guarantee or warranty expressed or implied on the results that may be obtained. In some situations, it may not be possible to achieve optimal results with a single surgical procedure. You and your surgeon will discuss the options available should additional surgeries be advised. There may be additional costs and expenses for such additional procedures, including surgical fees, facility and anesthesia fees, pathology and lab testing.

**PATIENT COMPLIANCE**

Follow all physician instructions carefully; this is essential for the success of your outcome. It is important that the surgical incisions are not subjected to excessive force, swelling, abrasion, or motion during the time of healing. Personal and vocational activities need to be restricted. Protective dressings and drains should not be removed unless instructed to do so by your plastic surgeon. Successful post-operative function depends on both the surgery and subsequent care. Physical activities that increase your pulse or heart rate may cause bruising, swelling, fluid accumulation, and the need for return to surgery. It is important that you participate in follow-up care, return for aftercare, and promote your recovery after surgery.

**DISCLAIMER**

Informed-consent documents are used to communicate information about the proposed surgical treatment of a disease or condition, along with disclosure of risks and alternative forms of treatment(s), including no surgery. The informed-consent process attempts to define principles of risk disclosure that should generally meet the needs of most patients in most circumstances.

However, informed-consent documents should not be considered all-inclusive in defining other methods of care and risks encountered. Your plastic surgeon may provide you with additional or different information, which is based on all the facts in your particular case and the current state of medical knowledge.

Informed-consent documents are not intended to define or serve as the standard of medical care. Standards of medical care are determined on the basis of all of the facts involved in an individual's case, and are subject to change as scientific knowledge and technology advance, and as practice patterns evolve.

**It is important that you read the above information carefully and have all of your questions answered before signing the consent on the next page.**

CONSENT FOR SURGERY/PROCEDURE or TREATMENT

1. I hereby authorize Dr. Quinton Chivers the selected assistants to perform **Brachioplasty with Liposuction.**

I have received the following information sheet: **Brachioplasty with Liposuctions.**

2. I recognize that during the course of the operation and medical treatment or anesthesia, unforeseen conditions may necessitate different procedures than those above. I therefore authorize the above physician and assistants or designees to perform such other procedures that are deemed necessary and desirable under his/her professional judgment. The authority granted under this paragraph shall include all conditions that require treatments and are not known to my physician at the time the procedure has begun.
3. I consent to the administration of such anesthetics as considered necessary or advisable. I understand that all forms of anesthesia involve risk and the possibility of complications, injury, and sometimes death.
4. I understand what my surgeon can and cannot do, and that there are no warranties or guarantees, implied or specific, about my clinical outcome. I have had the opportunity to explain my goals, and understand which desired outcomes are realistic and which are not. All of my questions have been answered, and I understand the inherent (specific) risks to the procedures I seek, as well as those additional risks and complications, benefits, and alternatives. Understanding all of this, I elect to proceed.
5. I consent to be photographed or televised before, during, and after the operation(s) or procedure(s) to be performed, including appropriate portions of my body, for medical, scientific, or educational purposes, provided my identity is not revealed by the pictures.
6. For purposes of advancing medical education, I consent to the admittance of observers to the operating room.
7. I consent to the disposal of any tissue, medical devices, or body parts that may be removed.
8. I am aware that there are potential significant risks to my health with the utilization of blood products, and I consent to their utilization should they be deemed necessary by my surgeon and/or his/her appointees.
9. I authorize the release of my Social Security number to appropriate agencies for legal reporting and medical-device registration, if applicable.
10. I understand that the surgeons' fees are separate from the anesthesia and hospital charges, and the fees are agreeable to me. If a secondary procedure is necessary, further expenditure will be required.
11. I realize that not having the operation is an option. I opt out of having this procedure \_\_\_\_\_.
12. IT HAS BEEN EXPLAINED TO ME IN A WAY THAT I UNDERSTAND:  
a. THE ABOVE TREATMENT OR PROCEDURE TO BE UNDERTAKEN  
b. THERE MAY BE ALTERNATIVE PROCEDURES OR METHODS OF TREATMENT  
c. THERE ARE RISKS TO THE PROCEDURE OR TREATMENT PROPOSED

I CONSENT TO THE TREATMENT OR PROCEDURE AND THE ABOVE LISTED ITEMS (1-12).  
I AM SATISFIED WITH THE EXPLANATION.

\_\_\_\_\_  
Patient or Person Authorized to Sign for Patient

Date/Time \_\_\_\_\_ Witness \_\_\_\_\_