Mentor Worldwide LLC P060028 MemoryShape™ Breast Implants May 2013

Product Insert Data Sheet

MENTOR® MEMORYSHAPE™ BREAST IMPLANTS

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician.



STERILE

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INTRODUCTION

DIRECTIONS TO THE PHYSICIAN

The information supplied in this physician labeling document is intended to provide an overview of essential information about Mentor's MemoryShapeTM Breast Implants, including a device description, the indications for use, contraindications, warnings, precautions, important factors to discuss with a patient, adverse events, other reported conditions, a summary of Mentor's MemoryShapeTM Core Study results, device retrieval efforts, product evaluation, how to report problems with an implant, and returned goods authorization.

PATIENT COUNSELING INFORMATION

You should review this document and patient labeling prior to counseling the patient about Mentor's MemoryShapeTM Breast Implants and breast implant surgery. MemoryShapeTM Breast Implant labeling materials are part of physician training, a requirement described below. Please familiarize yourself with the content of this document and resolve any questions or concerns prior to proceeding with use of the device. As with any surgical procedure, breast implantation is NOT without risks. Breast implantation is an elective procedure, and the patient must be well counseled and understand the risk/benefit relationship.

Before making the decision to proceed with surgery, the surgeon or a designated patient counselor should instruct the patient to read *Patient Educational Brochure: Breast Augmentation/Reconstruction with MENTOR® MemoryShapeTM Breast Implants* (patient brochures), and discuss with the patient the warnings, contraindications, precautions, important factors to consider, complications, and the MENTOR® MemoryShapeTM Core Study results presented in the patient brochure. You should advise the patient of the potential complications and that medical management of serious complications may include additional surgery and explantation.

Please refer to the INFORMATION TO BE DISCUSSED WITH THE PATIENT section of this document for additional patient counseling information.

INFORMED DECISION

Each patient should receive Mentor's *Patient Educational Brochure: Breast Augmentation/Reconstruction with MENTOR® MemoryShapeTM Breast Implants during her initial visit/consultation, to allow her sufficient time to read and adequately understand the important information on the risks, follow-up recommendations, and benefits associated with silicone gel breast implant surgery.*

Allow the patient at least 1 to 2 weeks to review and consider this information before deciding whether to have primary breast augmentation surgery. In the case of a revision-augmentation, primary reconstruction, and revision-reconstruction, it may be medically advisable to perform surgery sooner.

In order to document a successful informed decision process, the patient brochure includes an *Acknowledgment of Informed Decision* form, which is to be signed by both the patient and the surgeon and then retained in the patient's file.

DEVICE TRACKING

Silicone gel breast implants are subject to device tracking per Food and Drug Administration (FDA) regulation. Tracking is intended to facilitate notifying patients in the event that important new information about a device becomes available. The laws that govern device tracking require physicians to report certain information relating to their practice, the breast implants used, and the patients who receive breast implants (21 CFR §821.30).¹ A physician prescribing MemoryShape™ Breast Implants is required, by federal regulation, to comply with Device Tracking Regulations, and report to Mentor:

- The serial number of the implanted device(s),
- The date of the implant surgery,
- Patient's name,
- The patient's personal contact information (including address, telephone number and date of birth),
- Contact information for the prescribing physician's practice and the physician who regularly sees the patient for primary care, and
- (When applicable) the date the device was:
 - Explanted, with the name, mailing address, and telephone number of the explanting physician;
 - Out of use due to patient death (date of death);
 - Returned to the manufacturer:
 - Permanently disposed of.

Tracking continues until the implant is returned, destroyed, explanted, or the patient becomes deceased. Tracking information will be recorded on the Device Tracking Form supplied by Mentor with each implant. The form should then be returned to Mentor by fax or submitted via www.MentorDirect.com.

Mentor strongly recommends that all patients receiving MemoryShapeTM Breast Implants participate in Mentor's Device Tracking program.

Patients are not required by law to enroll themselves in any tracking program or device registry. However, if a patient declines to provide personal, identifying information, you must still provide all other non-patient specific information.

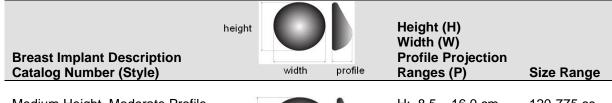
DEVICE DESCRIPTION

MENTOR® MemoryShapeTM Breast Implants are devices with shells constructed from medical grade silicone elastomer. The shell is filled with Mentor's proprietary formulation of medical grade silicone gel. The textured shell is constructed of successive crosslinked layers of silicone elastomer and includes raised orientation marks on the anterior and posterior of the implant intended to help the physician orient the implant and ensure proper placement during implantation. Each MENTOR® MemoryShapeTM Breast Implant is provided sterile.

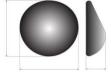
PHYSICIAN TRAINING

Completion of Mentor's MemoryShape™ Device Training is required for all physicians in order to gain access to Mentor's MemoryShape™ Breast Implants. Physician certification provides documentation of training in the use of these devices. Mentor has developed an online training and certification of participation process (The MemoryShape™ Device Training) that may be accessed via www.MentorDirect.com.

The following lists the catalog numbers for MENTOR® MemoryShapeTM Breast Implants:



Medium Height, Moderate Profile 354-0908/1708 (Style MM)



H: 8.5 – 16.0 cm W: 9.0 – 17.0 cm P: 3.3 - 5.9 cm

120-775 cc

INDICATIONS FOR USE

MENTOR® MemoryShapeTM Breast Implants are indicated for females for the following uses (procedures):

- Breast augmentation for women at least 22 years old. Breast augmentation includes primary breast augmentation to increase the breast size, as well as revision surgery to correct or improve the result of a primary breast augmentation surgery.
- Breast Reconstruction. Breast reconstruction includes primary reconstruction to replace breast tissue that has been removed due to cancer or trauma or that has failed to develop properly due to a severe breast abnormality. Breast reconstruction also includes revision surgery to correct or improve the results of a primary breast reconstruction surgery.

CONTRAINDICATIONS

Patient Groups in which the product is contraindicated in women:

- With active infection anywhere in their body,
- With existing cancer or pre-cancer who have not received adequate treatment for those conditions.
- Who are currently pregnant or nursing.

WARNINGS

AVOID IMPLANT DAMAGE DURING SURGERY AND OTHER MEDICAL **PROCEDURES**

latrogenic events inadvertently induced by a physician or surgeon, or by medical treatment or procedures, may contribute to premature implant failure.

- Do not allow cautery devices or sharp instruments, such as scalpels, suture needles, hypodermic needles, hemostats, Adson forceps or scissors to contact the device during the implantation or other surgical procedures. Patients should be instructed to inform other treating physicians to observe this warning.
- The technique for inserting a gel device is significantly different than for a saline implant. Ensure that excessive force is not applied to a very small area of the shell during insertion of the device through the incision. Instead, apply force over as large an area of the implant as possible when inserting it. Avoid pushing the device into place with one or two fingers in a localized area, as this may create an area of weakness on the shell.
- An incision should be of appropriate length to accommodate the style, size, and profile of the implant. The incision will be longer than the one typically made for a round silicone gel breast implant. This will reduce the potential for creating excessive stress to the implant during insertion. In the Mentor clinical trials, the mean incision size was 4.4 centimeters for the round MemoryGel[®] Breast Implants and 5.3 centimeters for the MemoryShapeTM Breast Implants.
- The anatomical limitations of periareolar and axillary incision sites may make insertion of the implant more difficult, increasing the risk of damage to the implant.
- Avoid creating wrinkles or folds in the device during the implantation or other
 procedures (e.g., revision surgery). A typical practice is to run your finger around
 the implant before closing to ensure the implant is lying flat and has no folds or
 wrinkles. Submuscular placement of the device makes the inspection for
 wrinkles or folds more difficult.
- Do not treat capsular contracture by closed capsulotomy or forceful external compression, which will likely result in implant damage, rupture, folds, and/or hematoma.
- Use care in subsequent procedures such as open capsulotomy, breast pocket revision, hematoma/seroma aspiration, biopsy, and lumpectomy to avoid damage to the implant. Re-positioning of the implant during surgical procedures should be carefully evaluated by the medical team and care taken to avoid contamination of the implant. Use of excessive force during any subsequent procedure can contribute to localized weakening of the breast implant shell potentially leading to decreased device performance.
- Do not immerse the implant in any liquid such as Betadine or other iodine solution. If Betadine is used in the pocket, ensure that it is rinsed thoroughly so no residual solution remains in the pocket.
- Do not alter the implants or attempt to repair or insert a damaged implant.
- Do not re-use or resterilize any product that has been previously implanted. Breast implants are intended for single use only.
- Do not place more than one implant per breast pocket.
- Do not use the periumbilical approach to place the implant.
- The use of surgical mesh together with the breast implant has not been studied in the Core study.

MICROWAVE DIATHERMY

Do not use microwave diathermy in patients with breast implants, as it has been reported to cause tissue necrosis, skin erosion, and implant extrusion.

PRECAUTIONS

SPECIFIC POPULATIONS

Safety and effectiveness has not been established in patients with:

- Autoimmune diseases (e.g., lupus and scleroderma),
- A weakened immune system (for example, currently taking drugs that weaken the body's natural resistance to disease),
- Planned chemotherapy following breast implant placement,
- Planned radiation therapy to the breast following breast implant placement,
- Conditions or medications that interfere with wound healing ability (e.g., poorly controlled diabetes, or corticosteroid therapy) or blood clotting (such as concurrent Coumadin therapy),
- Reduced blood supply to breast or overlying tissue, or
- Clinical diagnosis of depression or other mental health disorders, including body dysmorphic disorder and eating disorders. Please discuss any history of mental health disorders with your patient prior to surgery. Patients with a diagnosis of depression, or other mental health disorders should wait until resolution or stabilization of these conditions prior to undergoing breast implantation surgery.

There may be other patients with complicated medical histories who, in the surgeon's judgment, present risk factors for which breast implant safety and effectiveness have not been established. As with all surgery, you should review your patient's medical history to ensure that she is an appropriate candidate for breast implant surgery.

SURGICAL PRECAUTIONS

Surgical precautions, such as those described below, should be undertaken to maximize a successful aesthetic result and the long-term performance of the device.

Device Integrity

The device should be tested for patency and shell integrity immediately prior to use. This can be accomplished by gently manipulating the prosthesis with hand and fingers, while carefully examining for rupture or leakage sites.

Surgical Technique

The implantation of silicone gel breast implants involves a variety of surgical techniques. Therefore, the surgeon is advised to use the method which her/his own practice and discretion dictate to be best for the patient, consistent with this product insert data sheet. It is advisable to have more than one size breast implant in the operating room at the time of surgery to allow for flexibility in determining the appropriate size implant to be used. A backup implant should also be available.

Handle the implants with care during implantation as excessive force during implantation might cause gel fracture. (Gel fracture is a fissure or fault line in the gel within the implant as a result of excessive applied force.)

Implant Selection

In order to properly select the correct implant, the following considerations should be taken into account and, as appropriate, discussed with the patient:

- The implant should be consistent in size with the patient's chest wall dimensions, including base width measurements, also considering the laxity of the tissue and the projection of the implant.
- A thorough discussion should be conducted with the patient, employing appropriate visual aids such as imaging, sizing implants, or other options to clarify her objectives and manage expectations, in order to reduce the incidence of reoperation for size change.
- The following may cause implants to be more palpable: textured implants, larger implants, subglandular placement, and an insufficient amount of skin/tissue available to cover the implant.
- Available tissue must provide adequate coverage of the implant.

Incision Site Selection

- The periareolar site is typically more concealed, but it may be associated with a higher likelihood of difficulties in successfully breastfeeding as compared to other incision sites.² A periareolar incision may result in changes in nipple sensation. As the incision for these implants will be longer than the one typically made for a saline or round silicone gel breast implant, the periareolar incision may not provide sufficient length in some patients.
- The inframammary incision is generally less concealed than the periareolar, but it
 may be associated with less breastfeeding difficulty than the periareolar incision
 site.²
- The axillary incision is less concealed than the periareolar site.
- The periumbilical approach has not been studied in Mentor's MemoryShape[™]
 Core Study and should not be used for a wide variety of reasons, including
 potential damage to the implant shell.

Implant Placement Selection

 A well-defined, dry pocket of adequate size and symmetry must be created for implant placement.

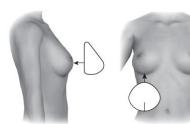
- Submuscular placement may make surgery last longer, may make recovery longer, may be more painful, and may make it more difficult to perform some reoperation procedures than subglandular placement. The possible benefits of this placement are that it may result in less palpable implants, less likelihood of capsular contracture,³ and easier imaging of the breast for mammography. Also, submuscular placement may be preferable if the patient has thin or weakened breast tissue.
- Subglandular placement may make surgery and recovery shorter, may be less painful, and may be easier to access for reoperation than the submuscular placement. However, this placement may result in more palpable implants, greater likelihood of capsular contracture,^{4,5} and increased difficulty in imaging the breast with mammography.
- MENTOR[®] MemoryShape[™] Breast Implants contain raised orientation marks on the anterior and posterior of the implant. These marks help the physician orient the implant and ensure proper placement during implantation.



Anterior Orientation Marks



Posterior Orientation Marks



Maintaining Hemostasis/Avoiding Fluid Accumulation

Careful hemostasis is important to prevent postoperative hematoma formation. Should excessive bleeding persist, implantation of the device should be delayed until bleeding is controlled. Postoperative evacuation of hematoma or seroma must be conducted with care to avoid breast implant contamination, or damage from sharp instruments, retraction, or needles.

Recording Procedure

Each breast implant is supplied with two Patient Record Labels showing the catalog number and lot number for that device. Patient Record Labels are located on the internal product packaging attached to the label. To complete the Patient ID Card, adhere one Patient Record Label for each implant on the back of the Patient ID Card. The other label should be affixed to the patient's chart. The implanted position (left or right side) should be indicated on the label. If a Patient Record Label is unavailable, the lot number, catalog number, and description of the device may be copied by hand from the device label. The patient should be provided with the Patient ID Card for personal reference.

Postoperative Care

You should advise your patient that she will likely feel tired and sore for several days following the operation, and that her breasts may remain swollen and sensitive to physical contact for a month or longer. You should also advise her that she may

experience a feeling of tightness in the breast area as her skin adjusts to her new breast size. In order to avoid possible injury or damage to the incision site(s), you should advise your patients to avoid the following for the first month after the surgery:

- Sun exposure,
- Jerky movements or activities that stretch the skin at your incision site(s),
- Participating in sports or other activities that raise your pulse or blood pressure, and
- Unnecessary physical or emotional stress

She should be able to return to work within a few days.

Explantation

If it is necessary to perform explanation of the implant, care must be taken to minimize manipulation of the product. Evaluation of the condition of the device upon explanation should be performed by the explanting surgeon and Mentor (refer to DEVICE RETRIEVAL EFFORTS and PRODUCT EVALUATION).

INFORMATION TO BE DISCUSSED WITH THE PATIENT

Breast implantation is an elective procedure and the patient must be thoroughly counseled on the risks, as well as the benefits, of these products and procedures. You should advise your patient that she must read the patient brochures for either augmentation or reconstruction, as applicable. You must read the patient brochures in their entirety. The brochures are intended as the primary means to relate uniform risk and benefit information to assist your patient in making an informed decision about primary breast augmentation and revision-augmentation, or primary reconstruction and revision-reconstruction surgery (as applicable), but are not intended to replace consultation with you. The patient should be advised to wait 1 to 2 weeks after reviewing and considering this information, before deciding whether to have this surgery, unless an earlier surgery is deemed medically necessary.

Both you and your patient will be required to sign the "Acknowledgement of Informed Decision" form prior to surgery. The form can be found on the last page of each patient brochure. The form, once signed, acknowledges the patient's full understanding of the information provided in the patient brochure. The form should be retained in the patient's permanent clinical record.

Below are some of the important factors your patients need to be aware of when using silicone gel breast implants. Section 4 of the patient brochures provides a more detailed listing of important factors for patients.

RUPTURE

Rupture of a silicone gel breast implant may be silent/asymptomatic (i.e., there are no symptoms experienced by the patient and no physical signs of changes with the implant), rather than symptomatic. You should advise your patient to undergo regular MRIs to screen for silent rupture even if she experiences no problems. The first MRI should be performed at 3 years postoperatively, then every 2 years, thereafter. The importance of these MRI evaluations should be emphasized. If rupture is noted on MRI,

then you should advise your patient to have her implant removed. You should provide her with a list of MRI facilities in her area that have at least a 1.5 Tesla magnet, a dedicated breast coil, and a radiologist experienced with reading breast implant MRIs to diagnose a silent rupture. Diagnostic procedures will add to the cost of having implants, and patients should be aware or advised that these costs may exceed the cost of their initial surgery over their lifetime and that their insurance carrier may not cover these costs.

EXPLANTATION

Implants are not considered lifetime devices, and patients likely will undergo implant removal(s), with or without replacement, over the course of their life. When implants are explanted without replacement, changes to the patient's breasts may be irreversible. Complication rates are higher following revision surgery (removal with replacement).

REOPERATION

Additional surgeries to the patient's breasts will likely be required, whether because of implant rupture, other complications, or unacceptable size/cosmetic outcomes. Patients should be advised that their risk of future complications increases with revision surgery as compared to primary augmentation or reconstruction surgery. Further, in a reoperation in which the implant is not removed (such as open capsulotomies or scar revision), there is a risk that the integrity of the implant's shell could be compromised inadvertently, potentially leading to product failure.

INFECTION

Signs of acute infection reported in association with breast implants include erythema, tenderness, fluid accumulation, pain, and fever. In rare instances, as with other invasive surgeries, Toxic Shock Syndrome (TSS) has been noted in women after breast implant surgery. It is a life-threatening condition. Symptoms of TSS occur suddenly and include a high fever (102°F, 38.8°C or higher), vomiting, diarrhea, a sunburn-like rash, red eyes, dizziness, lightheadedness, muscle aches, and drops in blood pressure, which may cause fainting. Patients should be instructed to contact a doctor immediately for diagnosis and treatment if they have these symptoms.

BREAST EXAMINATION TECHNIQUES

Patients should perform breast self-examinations monthly and be shown how to distinguish the implant from their breast tissue. The patient should not manipulate or squeeze the implant excessively. The patient should be told that the presence of lumps, persistent pain, swelling, hardening, or change in the implant shape might be symptoms of rupture of the implant. If the patient has any of these signs, the patient should be told to report them to her surgeon, and possibly have an MRI evaluation to screen for rupture.

MAMMOGRAPHY

Patients should be instructed to undergo routine mammography exams as per their primary care physician's recommendations. The importance of having these exams

should be emphasized. Patients should be instructed to inform their mammographers about the presence, type, and placement of their implants. Patients should have diagnostic mammography, rather than a screening mammography, because more pictures are taken with diagnostic mammography. Breast implants may complicate the interpretation of mammographic images by obscuring underlying breast tissue and/or by compressing overlying tissue. Accredited mammography centers, technicians with experience in imaging patients with breast implants, and use of displacement techniques are needed to adequately visualize breast tissue in the implanted breast. The current recommendations for preoperative or screening mammograms are no different for women with breast implants than for those women without implants. Presurgical mammography with a mammogram following the procedure may be performed to establish a baseline for routine future mammography in augmentation patients.

LACTATION

Breast implant surgery may interfere with the ability to successfully breast feed, either by reducing or eliminating milk production. The Institute of Medicine (IOM), in its 1999 report on the safety of silicone breast implants, encourages mothers with silicone gel breast implants to breast feed, stating that while breast implantation may increase the risk of lactation difficulties, there is no evidence of a hazard to the infant "beyond the loss of breastfeeding itself". Other professional medical associations and independent scientific panels have echoed these conclusions and recommendations. ^{6,7}

AVOIDING DAMAGE DURING OTHER TREATMENT

Patients should inform other treating physicians of the presence of implants to minimize the risk of damage to the implants.

SMOKING

As with any surgery, smoking may interfere with the healing process after breast implant surgery.

RADIATION TO THE BREAST

Mentor has not tested the *in vivo* effects of radiation therapy in patients who have breast implants. The literature suggests that radiation therapy may increase the likelihood of capsular contracture, ⁸⁻⁹ necrosis, and implant extrusion. ¹⁰

INSURANCE COVERAGE

Patients should be advised that health insurance premiums may increase, insurance coverage may be dropped, and/or future coverage may be denied based on the presence of breast implants. Treatment of complications of breast implantation may not be covered as well. Patients should check with their insurance company regarding coverage issues before undergoing surgery.

MENTAL HEALTH AND ELECTIVE SURGERY

It is important that all patients seeking to undergo elective surgery have realistic expectations that focus on improvement rather than perfection. Request that your patient openly discuss with you, prior to surgery, any history that she may have of depression or other mental health disorders.

LONG-TERM EFFECTS

Additional clinical safety and effectiveness data on MemoryShape™ Breast Implants will be gathered through multiple post-approval studies:

- Completion of the 10-year MemoryShape[™] Core Study;
- 5-year follow-up of patients implanted with MemoryShape™ Breast Implants under Continued Access;
- 10-year post-approval study of newly enrolled U.S. patients (Because the establishment of the National Breast Implants Registry is currently in progress, this study is labeled as "Study Pending" until further notification from FDA)
- Case-control studies to evaluate the association between MemoryShape™
 Breast Implants and 5 rare disease outcomes (rare connective tissue diseases,
 neurological diseases, brain tumors, cervical/vulvar cancer, and lymphomas).

Mentor will update its product labeling on a regular basis with the results of these studies. It is important for you to relay any new safety information to your patients as soon as such information is provided to you.

GENERAL ADVERSE EVENTS ASSOCIATED WITH BREAST IMPLANT SURGERY

Potential adverse events that may occur with silicone gel breast implant surgery include: rupture, capsular contracture, reoperation, implant removal, pain, changes in nipple and breast sensation, infection, scarring, asymmetry, wrinkling, implant displacement/migration, implant palpability/visibility, breastfeeding complications, hematoma/seroma, implant extrusion, necrosis, delayed wound healing, breast tissue atrophy/chest wall deformity, calcium deposits, lymphadenopathy, and additional complications.

Below is a description of these adverse events. For more specific adverse event rates/outcomes for MemoryShapeTM Breast Implants, refer to the MENTOR[®] MEMORYSHAPETM CORE STUDY section.

RUPTURE

Breast implants are not lifetime devices. Breast implants rupture when the shell develops a tear or hole. Rupture can occur at any time after implantation, but it is more likely to occur the longer the implant is implanted. The following things may cause implants to rupture: damage by surgical instruments; stressing the implant during implantation and weakening it; folding or wrinkling of the implant shell; excessive force to the chest (e.g., during closed capsulotomy, refer to WARNINGS); trauma; compression during mammographic imaging; and severe capsular contracture. Breast implants may also simply wear out over time.

Silicone gel implant ruptures are most often silent. (MRI examination is currently the best method to screen for silent rupture.) This means that most of the time neither you nor your patient will know if the implant has a tear or hole in the shell. This is why MRI is recommended at 3 years and then every 2 years, thereafter, to screen for rupture. Sometimes there are symptoms associated with gel implant rupture. These symptoms include hard knots or lumps surrounding the implant or in the armpit, change or loss of size or shape of the breast or breast implant, pain, tingling, swelling, numbness, burning, or hardening of the breast. 11,12,13,14

When MRI findings of rupture are found (such as subcapsular lines, characteristic folded wavy lines, teardrop sign, keyhole sign, noose sign), or if there are signs or symptoms of rupture, you should remove the implant and any gel you determine your patient has, with or without replacement of the implant. It also may be necessary to remove the tissue capsule which will involve additional surgery, with associated costs. If your patient has symptoms, such as breast hardness, a change in breast shape or size, and/or breast pain, you should recommend that she has an MRI to determine whether rupture is present.^{3,15}

There may also be consequences of rupture. If rupture occurs, silicone gel may either remain within the scar tissue capsule surrounding the implant (intracapsular rupture), move outside the capsule (extracapsular rupture), or gel may move beyond the breast (migrated gel). There is also a possibility that rupture may progress from intracapsular to extracapsular and beyond. There have been few health consequences associated with migrated gel reported in the literature.

Rupture rate information on Mentor's MemoryGel[®] Breast Implants is provided in a published European study known as the U.K. Sharpe and Collis Study. ¹⁶ Silent rupture was assessed by MRI on 149 patients implanted with textured MemoryGel[®] Breast Implants. The average age of the implants was approximately 10 years. The results suggest that by 13 years approximately 12% of implants will have ruptured. All ruptures were confirmed to be intracapsular. For information on MemoryShape [™] Breast Implants, refer to the MENTOR[®] MEMORYSHAPE [™] CORE STUDY section of this brochure.

Additional Information on Consequences of Rupture from Literature

Studies of Danish women evaluated with MRI involving a variety of manufacturers and implant models showed that about three-fourths of implant ruptures are intracapsular and the remaining one-fourth are extracapsular. Additional studies of Danish women indicate that over a 2-year period, about 10% of the implants with intracapsular rupture progressed to extracapsular rupture as detected by MRI. Approximately half of the women whose ruptures had progressed from intracapsular to extracapsular reported that they experienced trauma to the affected breast during this time period or had undergone mammography. In the other half, no cause was given. In the women with extracapsular rupture, after 2 years, the amount of silicone seepage outside the scar tissue capsule increased for about 14% of these women. This type of information pertains to a variety of silicone gel implants from a variety of manufacturers and implant models, and is not specific to Mentor's implants.

Below is a summary of information related to the health consequences of implant rupture, which have not been fully established. These reports were in women who had implants from a variety of manufacturers and implant models.

- Local breast complications reported in the published literature that were associated with rupture include breast hardness, a change in breast shape or size, and breast pain.¹⁵ These symptoms are not specific to rupture, as they also are experienced by women who have capsular contracture.
- There have been rare reports of gel movement to nearby tissues such as the chest wall, armpit, or upper abdominal wall, and to more distant locations down the arm or into the groin. This has led to nerve damage, granuloma formation, and/or breakdown of tissues in direct contact with the gel in a few cases. There have been reports of silicone presence in the liver of patients with silicone breast implants. Movement of silicone gel material to lymph nodes in the axilla also has been reported, even in women without evidence of rupture, leading to lymphadenopathy, as discussed below.¹⁸
- Concerns have been raised over whether ruptured implants are associated with the
 development of connective tissue or rheumatic diseases and/or symptoms such as
 fatigue and fibromyalgia. 12,14,19,20 A number of epidemiology studies have evaluated
 large populations of women with breast implants from a variety of manufacturers and
 implant models. These studies do not, taken together, support an association of
 breast implants and a diagnosed rheumatic disease. Other than one small study,14
 these studies do not distinguish whether the women had ruptured or intact implants.

CAPSULAR CONTRACTURE

Capsular contracture may be more common following infection, hematoma, and seroma, and the chance of it happening may increase over time. Capsular contracture occurs more commonly in patients undergoing revision surgery than in patients undergoing primary implantation surgery. Capsular contracture is a risk factor for implant rupture, and it is one of the most common reasons for reoperation in augmentation and reconstruction patients. Symptoms of capsular contracture range from mild firmness and mild discomfort to severe pain, distorted shape of the implant, and palpability (ability to feel the implant).

Patients should also be advised that additional surgery may be needed in cases where pain and/or firmness are severe. This surgery ranges from removal of the implant capsule tissue to removal and possible replacement of the implant itself. This surgery may result in loss of breast tissue. Capsular contracture may happen again after these additional surgeries.

REOPERATION

Patients should be advised that additional surgery to their breast and/or implant will likely be necessary over the course of their life. Reoperations can be required for many reasons including a patient's decision to change the size or type of her implants, or to otherwise improve her breast surgery outcome.

IMPLANT REMOVAL

Patients should be advised that the implants are not considered lifetime devices and they will potentially undergo Implant removal, with or without replacement, over the course of their life. Patients should also be advised that the changes to their breast following explantation might be irreversible.

PAIN

Pain of varying intensity and length of time may occur and persist following breast implant surgery. In addition, improper size, placement, surgical technique, or capsular contracture may result in pain. Surgeons should instruct their patients to inform them if there is significant pain or if pain persists.

CHANGES IN NIPPLE AND BREAST SENSATION

Sensation in the nipple and breast can increase or decrease after implant surgery. Sensation is typically lost after complete mastectomy where the nipple itself is removed. This loss of feeling can be severely lessened by partial mastectomy. Radiation therapy also can significantly reduce sensation in the remaining portions of the breast or chest wall. The placement of breast implants for reconstruction may further lessen the sensation in the remaining skin or breast tissue. The range of changes varies from intense sensitivity to no feeling in the nipple or breast following surgery. While some of these changes can be temporary, they can also be permanent, and may affect the patient's sexual response or ability to breast feed.

INFECTION

Infection can occur with any surgery or implant. Most infections resulting from surgery appear within a few days to weeks after the operation. However, infection is possible at any time after surgery. In addition, breast and nipple piercing procedures may increase the possibility of infection. Infections in tissue with an implant present are harder to treat than infections in tissue without an implant. If an infection does not respond to antibiotics, the implant may have to be removed, and another implant may be placed after the infection is resolved. As with many other surgical procedures, in rare instances, Toxic Shock Syndrome (TSS) has been noted in women after breast implant surgery. It is a life-threatening condition. Symptoms of TSS occur suddenly and include a high fever (102°F, 38.8°C or higher), vomiting, diarrhea, a sunburn-like rash, red eyes, dizziness, lightheadedness, muscles aches, and/or drops in blood pressure, which may cause fainting. Patients should be instructed to contact a doctor immediately for diagnosis and treatment if they have these symptoms.

HEMATOMA/SEROMA

Hematoma is a collection of blood within the space around the implant, and a seroma is a build-up of fluid around the implant. Having a hematoma and/or seroma following surgery may result in infection and/or capsular contracture later on. Symptoms from a hematoma or seroma may include swelling, pain, and bruising. If a hematoma or seroma occurs, it will usually be soon after surgery. However, this can also occur at any time after injury to the breast. While the body absorbs small hematomas and seromas,

some will require surgery, typically involving draining and potentially placing a surgical drain in the wound temporarily for proper healing. A small scar can result from surgical draining. Implant rupture also can occur from surgical draining if there is damage to the implant during the draining procedure.

UNSATISFACTORY RESULTS

Patients should be informed that dissatisfaction with cosmetic results related to such things as incorrect size, scar deformity, hypertrophic scarring, capsular contracture, asymmetry, wrinkling, implant displacement/migration, and implant palpability/visibility might occur. Careful surgical planning or technique can minimize, but not preclude, the risk of such results. Pre-existing asymmetry may not be entirely correctable. Revision surgery may be indicated to maintain patient satisfaction but carries additional considerations and risks.

BREAST FEEDING COMPLICATIONS

Breast feeding difficulties have been reported following breast surgery, including breast reduction and breast augmentation. A periareolar surgical approach may further increase the chance of breast feeding difficulties.

ADDITIONAL COMPLICATIONS

After breast implant surgery, the following may occur and/or persist, with varying intensity and/or varying length of time: implant extrusion, necrosis, delayed wound healing, and breast tissue atrophy/chest wall deformity. Calcium deposits can form in the tissue capsule surrounding the implant with symptoms that may include pain and firmness. Lymphadenopathy has also been reported in some women with implants.

OTHER REPORTED CONDITIONS

There have been reports in the literature of other conditions in women with silicone gel breast implants. Many of these conditions have been studied to evaluate their potential association with breast implants. No cause and effect relationship has been established between breast implants and the conditions listed below. Furthermore, there is the possibility of risks, yet unknown, which in the future could be determined to be associated with breast implants. It should also be noted that the cited references include data from augmentation and/or reconstruction patients, as well as from a variety of manufacturers and implant models.

CONNECTIVE TISSUE DISEASE (CTD) DIAGNOSES OR SYNDROMES

Connective tissue diseases include diseases such as lupus, scleroderma, rheumatoid arthritis, and fibromyalgia. There have been a number of published epidemiological studies, meta-analyses, and "weight-of-the-evidence" or critical reviews that have looked at whether having a breast implant is associated with having a typical or defined connective tissue disease. The study size needed to conclusively rule out a smaller risk of connective tissue disease among women with silicone gel breast implants would need to be very large. 3,12,14,20,21,22,23,24,25,26 The published studies taken together show that

breast implants are not significantly associated with a risk of developing a typical or defined connective tissue disease. These studies do not distinguish between women with intact and ruptured implants. Only one study evaluated specific connective tissue disease diagnoses and symptoms in women with silent ruptured versus intact implants, but it was too small to rule out a small risk. Another study in a small group of women concluded that significantly more women with ruptured implants than intact implants reported debilitating chronic fatigue; the women reported their symptoms after learning whether or not they had a ruptured implant.

Independent scientific panels and review groups have also concluded that there is no evidence to support an association between breast implants and connective tissue disease, or at least, if a risk cannot be absolutely excluded it is too small to be quantified.^{3,7,24}

CTD SIGNS AND SYMPTOMS

Literature reports have also been made associating silicone breast implants with various rheumatological signs and symptoms such as fatigue, exhaustion, joint pain and swelling, muscle pain and cramping, tingling, numbness, weakness, and skin rashes. Having these rheumatological signs and symptoms does not necessarily mean that a patient has a connective tissue disease. Scientific expert panels and literature reports have found no evidence of a consistent pattern of signs and symptoms in women with silicone gel breast implants. If a patient has an increase in these signs or symptoms, you should refer your patient to a rheumatologist to determine whether these signs or symptoms are due to a connective tissue disorder or autoimmune disease.

CANCER

Breast Cancer

Reports in the medical literature indicate that patients with breast implants are not at a greater risk than those without breast implants for developing breast cancer. ^{31,32,33,34,35} Some reports have suggested that breast implants may interfere with or delay breast cancer detection by mammography and/or biopsy; however, other reports in the published medical literature indicate that breast implants neither significantly delay breast cancer detection nor adversely affect cancer survival of women with breast implants. ^{31,35,36,37,38,39,40}

Brain Cancer

One study has reported an increased incidence of brain cancer in women with breast implants as compared to the general population.⁴¹ The incidence of brain cancer, however, was not significantly increased in women with breast implants when compared to women who had other plastic surgeries; the study relied on very few cases and the authors relied upon death certificates for brain cancer diagnoses, which may reflect other cancers that have metastasized. Other recent large studies and a published review of four large studies in women with cosmetic implants concluded that the evidence does not support an association between brain cancer and breast implants.^{33,35,42,43,44,45,46}

Respiratory/Lung Cancer

One study has reported an increased incidence of respiratory/lung cancer in women with breast implants. Other studies of women in Sweden and Denmark have found that women who get breast implants are more likely to be current smokers than women who get breast reduction surgery or other types of cosmetic surgery. Very Reversal large studies have found no association between breast implants and respiratory/lung cancer. 33,35,43,44,46

Reproductive System Cancers

One study has reported an increased incidence of cervical/vulvar cancer in women with breast implants. The cause of this increase is unknown. However, there was no increased risk when compared to women who had other types of plastic surgery. Another study reported an increased incidence of vulvar cancer that has not been explained. Other recent large studies concluded that the evidence does not support an association between reproductive system cancers and breast implants. 35,42,43,44,45,46

Lympho-Hematopoietic Cancers

One study has reported an increased risk of leukemia in women with breast implants as compared to the general population.⁴¹ However, there was no increased risk when compared to women who had other types of plastic surgery. Other recent large studies concluded that the evidence does not support an association between lymphohematopoietic cancers and breast implants.^{33,35,42,43,44,45,46}

Anaplastic Large Cell Lymphoma (ALCL)

Based on information reported to FDA and found in medical literature, a possible association has been identified between breast implants and the rare development of anaplastic large cell lymphoma (ALCL), a type of non-Hodgkin's lymphoma.⁵⁰ Women with breast implants may have a very small but increased risk of developing ALCL in the fluid or scar capsule adjacent to the implant.

ALCL has been reported globally in patients with an implant history that includes Mentor's and other manufacturers' breast implants.

You should consider the possibility of ALCL when you have a patient with late onset, persistent peri-implant seroma. In some cases, patients presented with capsular contracture or masses adjacent to the breast implant. When testing for ALCL, collect fresh seroma fluid and representative portions of the capsule, and send for pathology tests to rule out ALCL. If your patient is diagnosed with peri-implant ALCL, develop an individualized treatment plan in coordination with a multi-disciplinary care team. Because of the small number of cases worldwide, there is no defined consensus treatment regimen for peri-implant ALCL.

For more complete and up-to-date information on FDA's analysis and review of the ALCL in patients with breast implants please visit:

http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/ImplantsandProsthetics/BreastImplants/ucm239995.htm

Other Cancers

There have been several studies published that examined the risk of other types of cancers, e.g., thyroid cancers, urinary system cancers, sarcoma, endocrine cancer, connective tissue cancer, cancer of the eye, and unspecified cancers in women with breast implants. All of those studies found no increased risk in women with breast implants. 14,28, 33,41,43,44,45,46

NEUROLOGICAL DISEASE, SIGNS, AND SYMPTOMS

Some women with breast implants have complained of neurological symptoms (such as difficulties with vision, sensation, muscle strength, walking, balance, thinking or remembering things) or diseases (such as multiple sclerosis), which they believe are related to their implants. A scientific expert panel report found that the evidence for a neurological disease or syndrome caused by or associated with breast implants is insufficient or flawed.³

SUICIDE

In several studies, a higher incidence of suicide was observed in women with breast implants. ^{51,52,53,54} The reason for the observed increase is unknown, but it was found that women with breast implants had higher rates of hospital admission due to psychiatric causes prior to surgery, as compared with women who had breast reduction or in the general population of Danish women. ⁵²

EFFECTS ON CHILDREN

At this time, it is not known if a small amount of silicone may pass through the breast implant silicone shell into breast milk during breastfeeding. Although there are no current established methods for accurately detecting silicone levels in breast milk, a study measuring silicon (one component in silicone) levels did not indicate higher levels in breast milk from women with silicone gel breast implants when compared to women without implants.⁵⁵

In addition, concerns have been raised regarding potential damaging effects on children born to mothers with implants. Two studies in humans have found that the risk of birth defects overall is not increased in children born after breast implant surgery. ^{56,57} Although low birth weight was reported in a third study, other factors (for example, lower pre-pregnancy weight) may explain this finding. ⁵⁸ This author recommended further research on infant health.

POTENTIAL HEALTH CONSEQUENCES OF GEL BLEED

Small quantities of low molecular weight (LMW) silicone compounds, as well as platinum (in zero oxidation state), have been found to diffuse ("bleed") through an intact implant shell.^{3,59} The evidence is mixed as to whether there are any clinical consequences associated with gel bleed. For instance, studies on implants implanted for a long

duration have suggested that such bleed may be a contributing factor in the development of capsular contracture³ and lymphadenopathy. However, evidence against gel bleed being a significant contributing factor to capsular contracture and other local complications is provided by the fact that there are similar or lower complication rates for silicone gel breast implants than for saline-filled breast implants. Saline-filled breast implants do not contain silicone gel and, therefore, gel bleed is not an issue for those products. Furthermore, toxicology testing has indicated that the silicone material used in the Mentor implants does not cause toxic reactions when large amounts are administered to test animals. It should also be noted that studies reported in the literature have demonstrated that the low concentration of platinum contained in breast implants is in the zero oxidation (most biocompatible) state. In addition, two separate studies sponsored by Mentor have demonstrated that the low concentration of platinum contained in its breast implants is in the zero oxidation (most biocompatible) state.

Mentor performed a laboratory test to analyze the silicones and platinum (used in the manufacturing process), which may bleed out of intact MemoryShapeTM Breast Implants into the body. The test method was developed to represent, as closely as possible, conditions in the body surrounding an intact implant. The results indicate that among LMW silicones and platinum, only platinum bled into the serum in measurable quantities. Platinum levels measured at 2 micrograms by 40 days, by which time an equilibrium level was reached and no more platinum was extracted from the device. Over 99% of the LMW silicones and platinum stayed in the implant. The available evidence supports that the extremely low level of gel and platinum bleed is of no clinical consequence.

MENTOR® MEMORYSHAPE™ CORE STUDY

The safety and effectiveness of Mentor's silicone gel implants were evaluated in an open-label multicenter clinical study, referred to as the MENTOR® MemoryShapeTM Core Study. The information below provides more details about Mentor's MemoryShapeTM Core Study and the complications and benefits your patients may experience.

STUDY DESIGN

Mentor's MemoryShapeTM Core Study is a 10-year study to assess safety and effectiveness in primary augmentation, primary reconstruction, and revision (augmentation and reconstruction) patients. The MemoryShapeTM Core Study consisted of 955 patients, including 572 primary augmentation patients, 124 revision-augmentation patients, 191 primary reconstruction patients, and 68 revision-reconstruction patients. Patients' medical histories were collected at baseline. Patient follow-up is at 10 weeks and annually through 10 years. MRI scans to detect silent rupture of the implant for a subset of patients are scheduled at 1, 2, 4, 6, 8, and 10 years. Safety assessments include complication rates and rates of reoperation. Effectiveness assessments include bra cup size change (primary augmentation patients only), circumferential chest size change, patient satisfaction, and quality of life (QoL) measures. The results through 3 and 6 years are reported in this document, and the study is currently ongoing. Mentor will periodically update this labeling as more information becomes available.

PATIENT ACCOUNTING AND BASELINE DEMOGRAPHIC PROFILE

Mentor's MemoryShape[™] Core Study consisted of 955 patients, including 572 primary augmentation patients, 124 revision-augmentation patients, 191 primary reconstruction patients, and 68 revision-reconstruction patients. This document presents data through 3 and 6 years post implantation. Data are available through 3 years post-implantation for 85% of the eligible primary augmentation patients, 86% of the eligible revision-augmentation patients, 93% of the eligible primary reconstruction patients, and 91% of the eligible revision-reconstruction patients. Data are available through 6 years post-implantation for 69% of the eligible primary augmentation patients, 66% of the eligible revision-augmentation patients, 73% of the eligible primary reconstruction patients, and 76% of the eligible revision-reconstruction patients.

Of the 955 patients in the study, 419 are in the MRI cohort, including 252 primary augmentation patients, 56 revision-augmentation patients, 74 primary reconstruction patients, and 37 revision-reconstruction patients. Patients in the MRI cohort are assessed for silent rupture by MRI at years 1, 2, 4, 6, 8, and 10. At this time, MRIs have been performed at years 1, 2, 4, and 6 years. MRI follow-up rates across indications were 71% (291 of 411 expected due), 83% (334 of 403 expected due), 72% (279 of 387 expected due), and 56% (212 of 380 expected due), at 1, 2, 4, and 6 years, respectively.

Demographic information for the MENTOR[®] MemoryShape[™] Core Study are provided in Table 1.

Table 1. MemoryShape™ Core Study Patient Demographics By Cohort

Table 1. MemorySnape " Core Study Patient Demographics By Conort				
Characteristic	Primary Augmentation N=572	Revision- Augmentation N=124	Primary Reconstruction N=191	Revision- Reconstruction N=68
	11-012	11-121	11-101	11-00
Age (years)				
< 22	32 (5.6%)	1 (0.8%)	3 (1.6%)	0 (0%)
22-<25	32 (5.6%)	0 (0%)	2 (1.0%)	0 (0%)
25-<40	331 (57.9%)	34 (27.4%)	30 (15.7%)	5 (7.4%)
40-<50	150 (26.2%)	45 (36.3%)	85 (44.5%)	21 (30.9%)
50-<60	24 (4.2%)	36 (29.0%)	45 (23.6%)	27 (39.7%)
60-<70	3 (0.5%)	8 (6.5%)	25 (13.1%)	12 (17.6%)
70 & over	0 (0%)	0 (0%)	1 (0.5%)	3 (4.4%)
			1	
Median Age	36 years	46 years	47 years	53 years
		1	1	
Marital Status				
Single	129 (22.6%)	12 (9.7%)	22 (11.5%)	11 (16.2%)
Married	361 (63.1%)	88 (71.0%)	146 (76.4%)	47 (69.1%)
Separated	10 (1.7%)	3 (2.4%)	0 (0%)	1 (1.5%)
Divorced	65 (11.4%)	21 (16.9%)	18 (9.4%)	5 (7.4%)
Widowed	5 (0.9%)	0 (0%)	5 (2.6%)	4 (5.9%)
Not Provided	2 (0.3%)	0 (0%)	0 (0%)	0 (0%)
Race		1		
Caucasian	F19 (00 69/)	110 (06 09/)	170 (02 70/)	65 (05 69/)
African American	518 (90.6%)	119 (96.0%)	179 (93.7%)	65 (95.6%)
	6 (1.0%)	0 (0%)	9 (4.7%)	1 (1.5%)
Asian	13 (2.3%)	2 (1.6%)	1 (0.5%)	0 (0%)
Other	30 (5.2%)	3 (2.4%)	2 (1.0%)	1 (1.5%)
Not Provided	5 (0.9%)	0 (0%)	0 (0%)	1 (1.5%)
Education				
Less than 12	4 (0.7%)	1 (0.8%)	3 (1.6%)	2 (2.9%)
years				
High School Graduate	48 (8.4%)	15 (12.1%)	25 (13.1%)	9 (13.2%)
Some College	199 (34.8%)	44 (35.5%)	49 (25.7%)	22 (32.4%)
College Graduate	255 (44.6%)	44 (35.5%)	73 (38.2%)	18 (26.5%)
Post Graduate	58 (10.1%)	18 (14.5%)	37 (19.4%)	15 (22.1%)
Not Provided	8 (1.4%)	2 (1.6%)	4 (2.1%)	2 (2.9%)

In the MemoryShape™ Core Study, 1,831 devices (MemoryShape™ textured, medium height, moderate profile breast implant, style MM) were implanted in the 955 study patients, and Table 2 presents the surgical placement of these devices by study cohort.

Table 2. Breast Implant Placement by Cohort

		· · · · · · · · · · · · · · · · · · ·		
Implant Placement	Primary Augmentation N=1143	Revision-Augmentation N=247		
Submuscular/Subpectoral	985 (86.2%)	165 (66.8%)		
Subglandular	154 (13.5%)	80 (32.4%)		
Other	4 (0.3%) ¹	2 (0.8%) ²		
Implant Placement	Primary Reconstruction N=328	Revision-Reconstruction N=113		
Submuscular/Subpectoral	306 (93.3%)	111 (98.2%)		
Subglandular	22 (6.7%)	2 (1.8%)		
Other	0 (0.0%)	0 (0.0%)		

¹Partial retropectoral

With respect to other surgical baseline factors in the MemoryShapeTM Core Study, for both primary augmentation and revision-augmentation patients, the most common incision site was inframammary, while for primary reconstruction and revision-reconstruction patients, the most common incision site was the mastectomy scar.

RUPTURE INFORMATION ON MENTOR® MEMORYSHAPE™ BREAST IMPLANTS

In Mentor's MemoryShapeTM Core Study, rupture was assessed for patients who had scheduled MRIs to screen for silent rupture (i.e., part of the MRI cohort). This population of patients was used as the basis for estimating the overall rupture rate because it is only in this sample that, in general, both silent ruptures and overt ruptures would have been detected. A total of 419 patients were enrolled in the MRI cohort, including 252 primary augmentation, 56 revision-augmentation, 74 primary reconstruction, and 37 revision-reconstruction patients.

MRI scans to detect silent rupture of the implant for the MRI cohort are scheduled at 1, 2, 4, 6, 8, and 10 years. At 1, 2, 4, and 6 years, the overall follow-up rates for the MRI cohort across all indications were 71% (291 of 411 expected due), 83% (334 of 403 expected due), 72% (279 of 387 expected due), and 56% (212 of 380 expected due), respectively. Based on the latest updated information, the estimated rupture rates through 6 years were 2.6% for primary augmentation, 3.6% for revision-augmentation, 1.6% for primary reconstruction, and 0% for revision-reconstruction. The estimated rupture rates through 1, 2, 4, and 6 years are presented in Table 3.

Table 3. Cumulative Kaplan-Meier Adverse Event Risk Rates (95% Confidence Interval) for Rupture by Patient

Cohort	1 Year % (95% CI)	2 Year % (95% CI)	4 Year % (95% CI)	6 Year % (95% CI)
Primary Augmentation, N=252	0	0	1.1 (0.3, 4.2)	2.6 (1.0, 6.9)
	(n=0)	(n=0)	(n=2)	(n=4)
Revision-Augmentation, N=56	0	0	0	3.6 (0.5, 22.8)
	(n=0)	(n=0)	(n=0)	(n=1)
Primary Reconstruction ¹ , N=74	1.6 (0.2, 11.1)	1.6 (0.2, 11.1)	1.6 (0.2, 11.1)	1.6 (0.2, 11.1)
	(n=1)	(n=1)	(n=1)	(n=1)

² Prepectoral

Revision-Reconstruction, N=37	0	0	0	0
	(n=0)	(n=0)	(n=0)	(n=0)

One report of a ruptured replacement study implant (primary reconstruction) from the MRI cohort was not included in the rupture analyses because the patient no longer had the original study implant; only original study implants were included in the analyses.

Overall, there were 9 suspected or confirmed reports of rupture for 9 of the patients participating in the study, 7 reports among patients in the MRI cohort (4 primary augmentation, 1 revision-augmentation, and 2 primary reconstruction patients) and 2 reports among patients not in the MRI cohort (1 primary augmentation and 1 revisionaugmentation patient). One report of a ruptured replacement study implant (primary reconstruction) from the MRI cohort was not included in the rupture analyses because the patient no longer had the original study implant; only original study implants were included in the analyses. Of the 9 suspected or confirmed ruptured implants in the overall study, including the 2 that were found in the non-MRI cohort, 1 case was indeterminate for extracapsular silicone by MRI. There were no cases of migrated gel. The rupture rate beyond 6 years in Mentor's MemoryShapeTM Core Study continues to be investigated. With respect to accuracy of MRI for evaluation of MemoryShape™ Breast Implants, the MRI results that preceded explantation of 31 devices (3 ruptured, 28 intact) from 19 patients in this study was confirmed in every case following removal of the devices. The usage of MRI to detect rupture results are presented in Table 4.

Table 4: MRI Screening Conducted Prior to Explantation

Implants with history of MRI screening, explantation, and product evaluation	Rupture confirmed on explant	Non-Rupture confirmed on explant
MRI showed rupture	3*	0
MRI showed no rupture	0	28
MRI Sensitivity	100%	
MRI Specificity	100%	
*Of the O augmented runtures or	confirmed runtures in the study. A	have been evalented MDI

^{*}Of the 9 suspected ruptures or confirmed ruptures in the study, 4 have been explanted. MRI data prior to explant was available for 3 of the 4 explanted devices. In all 3 of these cases, rupture was confirmed by product evaluation after explants.

EFFECTIVENESS OUTCOMES

The benefits of MemoryShapeTM Breast Implants were assessed by bra cup size change (primary augmentation patients only), circumferential chest size change, patient satisfaction, and quality of life (QoL) measures (self-worth, body image, physical, mental, and social health, and breast satisfaction). Patient satisfaction in Mentor's MemoryShapeTM Core Study was based on a single question of "Would the subject make the same decision to have this breast surgery?" The QoL measures were the Rosenberg Self Esteem Scale (measures self-worth or self-acceptance), the Body Esteem Scale (measures a person's body image), the SF-36 (measures physical, mental, and social health), and the Breast Evaluation Questionnaire (measures breast satisfaction). These outcomes were assessed before implantation and at 1, 2, 4, and 6 years after surgery.

Primary Augmentation Patients

For primary augmentation patients, 364 (64%) out of the 572 patients enrolled were included in the analysis of cup size at 6 years. Of these 364 patients, 352 (97%) experienced at least one cup size increase. For circumferential chest size, 366 (64%) of the 572 patients enrolled were included in the analysis at 6 years. The average increase in circumferential chest size was 5.3 centimeters (2.1 inches).

At 6 years, 373 (65%) of the 572 patients enrolled answered the patient satisfaction question. Of these 373 patients, 360 (97%) stated to their surgeon that they would make the same decision to have breast surgery.

With regard to QoL measures at 6 years for primary augmentation patients, there was no significant change in the SF-36. There was a significant increase in the total score and the positive attitude score for the Rosenberg Self Esteem Scale and the total score and chest and sexual attractiveness subscales for the Body Esteem Scale. Of the 356 primary augmentation patients that answered the question "How satisfied with the general appearance of your breasts are you?"; 254 (71%) were very satisfied, 71 (20%) were somewhat satisfied, 8 (2%) were neither satisfied nor dissatisfied, 19 (5%) were somewhat dissatisfied and 4 (1%) were very dissatisfied. Based on the Breast Evaluation Questionnaire, the average improvement from before getting implants was 62% for comfort when not fully dressed, 25% for comfort when fully dressed, and 86% for satisfaction with breast characteristics.

Revision-Augmentation Patients

For revision-augmentation patients, 70 (56%) out of the 124 patients enrolled were included in the circumferential chest size analysis at 6 years. The average increase in circumferential chest size was 1.8 centimeters (0.7 inches).

At 6 years, 73 (59%) of the 124 revision-augmentation patients enrolled answered the patient satisfaction question. Of these 73 patients, 69 (95%) stated to their surgeon that they would make the same decision to have breast surgery.

With regard to QoL measures at 6 years for revision-augmentation patients, there was no significant change in the SF-36 or Rosenberg Self Esteem Scale. For the Body Esteem Scale, there was a significant decrease in the total score and an increase in chest subscale. Of the 68 revision-augmentation patients that answered the question "How satisfied with the general appearance of your breasts are you?"; 29 (43%) were very satisfied, 27 (40%) were somewhat satisfied, 8 (12%) were somewhat dissatisfied and 4 (6%) were very dissatisfied. Based on the Breast Evaluation Questionnaire, the average improvement from before getting implants was 11% for comfort when not fully dressed, 5% for comfort when fully dressed, and 28% for satisfaction with breast characteristics.

Primary Reconstruction Patients

For primary reconstruction patients, 85 (45%) out of the 191 patients enrolled were included in the analysis of circumferential chest size at 6 years. The average increase in circumferential chest size was 0.8 centimeters (0.3 inches).

At 6 years, 99 (52%) of 191 primary reconstruction patients enrolled answered the patient satisfaction question. Of these 99 patients, 97 (98%) stated to their surgeon that they would make the same decision to have breast surgery.

With regard to QoL measures at 6 years for primary reconstruction patients, there was a significant increase for the physical component scores but no significant change in the mental component score of the SF-36. There was a significant decrease in the total score of the Rosenberg Self Esteem Scale. For the Body Esteem Scale, there was a significant increase in the chest subscale. Of the 106 primary reconstruction patients that answered the question "How satisfied with the general appearance of your breasts are you?"; 39 (37%) were very satisfied, 30 (28%) were somewhat satisfied, 7 (7%) were neither satisfied nor dissatisfied, 24 (23%) were somewhat dissatisfied and 6 (6%) were very dissatisfied. Based on the Breast Evaluation Questionnaire, the average improvement from before getting implants was 10% for comfort when not fully dressed, 8% for comfort when fully dressed, and 26% for satisfaction with breast characteristics.

Revision-Reconstruction Patients

For revision-reconstruction patients, 36 (53%) out of the 68 patients enrolled were included in the analysis of circumferential chest size at 6 years. The average increase in circumferential chest size was 0.5 centimeters (0.2 inches).

At 6 years, 37 (54%) out of 68 revision-reconstruction patients enrolled answered the patient satisfaction question. Of these 37 patients, 36 (97%) stated to their surgeon that they would make the same decision to have breast surgery.

With regard to QoL measures at 6 years for revision-reconstruction patients, there was no significant change in the SF-36 or Rosenberg Self Esteem Scale. For the Body Esteem Scale, there was a significant increase in the chest subscale. Of the 38 revision-reconstruction patients that answered the question "How satisfied with the general appearance of your breasts are you?"; 10 (26%) were very satisfied, 13 (34%) were somewhat satisfied, 2 (5%) were neither satisfied nor dissatisfied, 8 (21%) were somewhat dissatisfied and 5 (13%) were very dissatisfied. Based on the Breast Evaluation Questionnaire, the average improvement from before getting implants was 29% for comfort when not fully dressed, 12% for comfort when fully dressed, and 32% for satisfaction with breast characteristics.

SAFETY OUTCOMES

Mentor's 10-year MemoryShapeTM Core Study of 955 patients is continuing with the results through 3 and 6 years reported in Tables 5a-5d below. The rates reflect the estimated percentage of patients who will experience the listed complication at least once within the first 3 and 6 years after implantation. In Mentor's MemoryShapeTM Core Study, some complications occurred more than once for some patients. Refer to Table 3 for more detailed estimated rupture rates. Note: Complications are defined as adverse events occurring in connection with the breast implant surgery, breast implants and/or the breast mound, and systemic diseases.

Table 5a. Cumulative Kaplan-Meier Adverse Event Risk Rates (95% Confidence Interval), By Patient for Primary Augmentation Cohort, N=572

by Fatient for Frimary Augmentation Conort, N=372		
	Year 3 % (95% CI)	Year 6 % (95% CI)
Any Complication Excluding Rupture ¹	35.0 (31.2, 39.1)	44.8 (40.6, 49.2)
	Year 3	Year 6
Key Complications	% (95% CI)	% (95% CI)
Any Reoperation	13.6 (11.0, 16.7)	18.1 (15.1, 21.6)
Capsular Contracture Baker Grade III/IV	1.1 (0.5, 2.4)	2.4 (1.4, 4.2)
Implant Removal with or without Replacement	5.0 (3.5, 7.2)	7.0 (5.1, 9.5)
Implant Removal with Replacement with Study Device	1.8 (1.0, 3.4)	2.5 (1.5, 4.3)
Implant Rupture (Based on the MRI Cohort) ²	-	2.6 (1.0, 6.9)
Infection	0.9 (0.4, 2.1)	0.9 (0.4, 2.1)
	Year 3	Year 6
Other Complications ≥ 1% ³	% (95% CI)	% (95% CI)
Breast Sensation Changes ⁴	2.7 (1.6, 4.4)	3.6 (2.3, 5.6)
Breast pain ⁴	2.2 (1.2, 3.8)	2.4 (1.4, 4.1)
Capsular Contracture Baker III ⁵	1.1 (0.5, 2.4)	2.4 (1.4, 4.2)
Hematoma	1.2 (0.6, 2.6)	1.2 (0.6, 2.6)
Hypertrophic Scarring	2.5 (1.5, 4.3)	2.5 (1.5, 4.3)
Implant Rotation	1.1 (0.5, 2.4)	1.1 (0.5, 2.4)
Mass/cyst	3.7 (2.4, 5.7)	5.9 (4.1, 8.3)
Miscarriage	0.8 (0.3, 2.0)	1.6 (0.8, 3.3)
New Diagnosis of Rheumatic Disease ⁶	0.4 (0.1, 1.5)	1.4 (0.7, 3.0)
Nipple Sensation Changes ⁴	3.7 (2.5, 5.7)	4.4 (3.0, 6.6)
Patient Dissatisfied With Aesthetic Appearance of Breast	2.2 (1.2, 3.8)	2.8 (1.7, 4.6)
Patient Dissatisfied With Feel of Implant	0.9 (0.4, 2.2)	1.1 (0.5, 2.5)
Position Dissatisfaction ⁴	1.8 (1.0, 3.4)	2.0 (1.1, 3.7)
Ptosis	7.9 (5.9, 10.5)	14.6 (11.7, 18.0)
Scarring	2.2 (1.2, 3.8)	2.4 (1.4, 4.1)
Size Change-Patient Request	3.3 (2.1, 5.1)	3.7 (2.4, 5.7)
Wrinkling ⁴	1.8 (1.0, 3.3)	2.7 (1.6, 4.5)

¹247 primary augmentation patients experienced at least one complication or reoperation ²Implant Rupture (based on the MRI cohort) was assessed by MRI at 1, 2, 4 and 6 years (results provided in Table 3); there was also one case of rupture reported through 6 years in a primary augmentation patient in the non-MRI subgroup (N=320).

³ The following complications occurred at a rate less than 1%: asymmetry, bruising, calcification, capsular contracture Baker II w/ surgical intervention, capsular contracture Baker IV, death⁷, delayed wound healing, fibrocystic disease, granuloma, implant movement upon muscle contraction, implant outline visible through skin, intermittent pop while wearing a certain type of bra, irritation/inflammation, lactation difficulties, loss of definition of inframammary fold, metastatic disease, new diagnosis of breast cancer, nipple complication, other: missing, palpability-implant, paresthesia (numbness/tingling), patient would not have surgery again, rash, seroma, shape distortion, size change-physician assessment only, skin lesion, suture complication, swelling (excessive), tenderness/ soreness, thickened capsule, wound dehiscence.

⁴ Mild occurrences were excluded.

⁵ The incidence of capsular contracture Baker IV was <1%.

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⁶There were 10 diagnoses in 7 primary augmentation patients: spondyarthropathies (25 months post implantation), other connective tissue disease (35 months post implantation), Sjögren's syndrome (35 and 42 months post implantation), systemic lupus erythematosus (35, 42, and 44 months post implantation), fibromyalgia (36 and 37 months post implantation), and undifferentiated connective tissue disease (41 months post implantation).

All causes of death were reported by the investigator to be unrelated to study procedure or

device.

Table 5b. Cumulative Kaplan-Meier Adverse Event Risk Rates (95% Confidence Interval), By Patient for Revision-Augmentation Cohort, N=124

By Patient for Revision-Augmentation Cohort, N=124	Year 3	Year 6
	% (95% CI)	% (95% CI)
Any Complication Excluding Rupture ¹	41.0 (32.9, 50.3)	53.3 (44.5, 62.6)
7 thy Complication Excluding (taptale	Year 3	Year 6
Key Complications	% (95% CI)	% (95% CI)
Any Reoperation	18.2 (12.4, 26.4)	24.1 (17.2, 33.0)
Capsular Contracture Baker Grade III/IV	5.2 (2.4, 11.1)	9.7 (5.3, 17.5)
Implant Removal with or without Replacement	10.8 (6.4, 17.9)	13.6 (8.6, 21.3)
Implant Removal with Replacement with Study Device	4.2 (1.8, 9.9)	5.3 (2.4, 11.4)
Implant Rupture (Based on the MRI Cohort) ²	-	3.6 (0.5, 22.8)
Infection	0.8 (0.1, 5.6)	2.1 (0.5, 8.7)
	Year 3	Year 6
Other Complications ≥ 1% ³	% (95% CI)	% (95% CI)
Asymmetry ⁴	1.7 (0.4, 6.6)	1.7 (0.4, 6.6)
Breast Sensation Changes ⁴	2.7 (0.9, 8.2)	2.7 (0.9, 8.2)
Calcification ⁴	0	1.1 (0.2, 7.7)
Capsular Contracture Baker II w/ Surgical Intervention	1.7 (0.4, 6.5)	1.7 (0.4, 6.5)
Capsular Contracture Baker III	3.4 (1.3, 8.9)	5.5 (2.5, 12.0)
Capsular Contracture Baker IV	1.7 (0.4, 6.8)	4.2 (1.6, 11.1)
Delayed Wound Healing ⁴	0	1.2 (0.2, 8.5)
Fibrocystic Disease	0	1.2 (0.2, 8.4)
Hypertrophic Scarring	3.4 (1.3, 8.9)	3.4 (1.3, 8.9)
Implant Rotation	2.6 (0.9, 8.0)	2.6 (0.9, 8.0)
Mass/cyst	5.4 (2.5, 11.7)	6.6 (3.2, 13.5)
Miscarriage	0	1.1 (0.2, 7.7)
Nipple Complication	0	1.1 (0.2, 7.4)
Nipple Sensation Changes ⁴	5.3 (2.4, 11.4)	5.3 (2.4, 11.4)
Palpability-Implant ⁴	2.6 (0.8, 7.7)	3.5 (1.3, 9.2)
Patient Dissatisfied With Aesthetic Appearance Of Breast	2.6 (0.8, 7.8)	8.1 (4.1, 15.7)
Patient Dissatisfied With Feel Of Implant	3.4 (1.3, 8.8)	4.6 (1.9, 10.7)
Patient Would Not Have Surgery Again	0	1.2 (0.2, 8.3)
Position Dissatisfaction ⁴	2.7 (0.9, 8.0)	3.7 (1.4, 9.7)
Ptosis	5.3 (2.4, 11.4)	14.4 (8.7, 23.4)
Scarring	0	2.2 (0.6, 8.5)
Size Change-Patient Request	6.6 (3.4, 12.8)	6.6 (3.4, 12.8)
Size Change-Physician Assessment only	1.7 (0.4, 6.5)	1.7 (0.4, 6.5)
Skin Lesion	0	1.1 (0.2, 7.5)
Tenderness/ Soreness	0	1.3 (0.2, 9.1)
Wound Dehiscence	2.4 (0.8, 7.4)	2.4 (0.8, 7.4)
Wrinkling ⁴	4.9 (2.2, 10.6)	5.9 (2.9, 12.0)

¹65 revision-augmentation patients experienced at least one complication or reoperation ²Implant Rupture (based on the MRI cohort) was assessed by MRI at 1, 2, 4 and 6 years (results provided in Table 3); there was also one case of rupture reported through 6 years in a revision augmentation patient in the non-MRI subgroup (N=68).

³The following complications occurred at a rate less than 1%: breast pain, death⁵, implant movement upon muscle contraction, implant outline visible through skin, irritation/inflammation,

lack of projection, new diagnosis of breast cancer, new diagnosis of rheumatic disease⁶, seroma, suture complication, thickened capsule.

Table 5c. Cumulative Kaplan-Meier Adverse Event Risk Rates (95% Confidence Interval), By Patient for Primary Reconstruction Cohort, N=191

Year 3
Key Complications Year 3 (95% CI) Year 6 (95% CI) Any Reoperation 36.1 (29.7, 43.4) 44.5 (37.5, 52.2) Capsular Contracture Baker Grade III/IV 5.6 (3.1, 10.2) 10.1 (6.2, 16.0) Implant Removal with or without Replacement 13.8 (9.6, 19.6) 21.8 (16.4, 28.7) Implant Removal with Replacement with Study Device 6.0 (3.4, 10.6) 7.4 (4.4, 12.5) Implant Rupture (Based on the MRI Cohort)² - 1.6 (0.2, 11.1) Infection 1.6 (0.5, 5.0) 1.6 (0.5, 5.0) Asymmetry⁴ 6.0 (3.3, 10.5) 10.6 (6.7, 16.7) Breast Sensation Changes⁴ 1.1 (0.3, 4.5) 1.1 (0.3, 4.5) Breast pain⁴ 2.8 (1.2, 6.6) 2.8 (1.2, 6.6) Capsular Contracture Baker II w/ Surgical Intervention 1.7 (0.6, 5.1) 4.2 (2.0, 8.7) Capsular Contracture Baker III 4.6 (2.3, 9.0) 9.1 (5.5, 15.0) Capsular Contracture Baker IV 1.6 (0.5, 4.9) 1.6 (0.5, 4.9) Delayed Wound Healing⁴ 1.0 (0.3, 4.1) 1.0 (0.3, 4.1) Excess Skin/tissue 4.3 (2.2, 8.5) 4.3 (2.2, 8.5) Hypertrophic Scarring 1.1 (0.3, 4.3) 2.4 (0.9, 6
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Irritation/Inflammation 2.1 (0.8, 5.6) 2.1 (0.8, 5.6)
Itching 0.5 (0.1, 3.7) 1.3 (0.3, 5.2)
Lack of Projection 5.0 (2.6, 9.4) 8.5 (5.1, 14.1)
Loss of Definition of Inframammary Fold 1.7 (0.5, 5.1) 2.3 (0.9, 6.1)
Mass/cyst 2.8 (1.2, 6.7) 4.6 (2.2, 9.8)
Metastatic Disease 2.3 (0.9, 5.9) 2.3 (0.9, 5.9)
Miscarriage 0.6 (0.1, 4.2) 2.1 (0.7, 6.6)
New Diagnosis of Rheumatic Disease ⁶ 1.7 (0.6, 5.1) 1.7 (0.6, 5.1)
Nipple Sensation Changes ⁴ 2.3 (0.9, 6.0) 2.9 (1.2, 6.9)
Other: Missing 0 1.6 (0.4, 6.3)
Patient Dissatisfied With Aesthetic Appearance of Breast 2.2 (0.8, 5.7) 5.1 (2.6, 10.2)
Patient Dissatisfied With Feel of Implant 1.7 (0.6, 5.3) 1.7 (0.6, 5.3)
Position Dissatisfaction ⁴ 0.5 (0.1, 3.8) 2.1 (0.7, 6.6)
Ptosis 2.9 (1.2, 6.8) 5.8 (3.0, 10.8)

⁴Mild occurrences were excluded.

⁵All causes of death were reported by the investigator to be unrelated to study procedure or device.

⁶There was 1 diagnosis for the revision-augmentation patient: rheumatoid arthritis (11 months post implantation).

Recurrent Breast Cancer	1.7 (0.6, 5.2)	2.5 (0.9, 6.5)
Scarring	2.9 (1.2, 6.8)	2.9 (1.2, 6.8)
Seroma	2.7 (1.1, 6.3)	3.4 (1.5, 7.4)
Shape Distortion	0	1.6 (0.4, 6.5)
Size Change-Patient Request	5.0 (2.6, 9.4)	5.0 (2.6, 9.4)
Size Change-Physician Assessment only	2.1 (0.8, 5.6)	2.1 (0.8, 5.6)
Skin Lesion	1.1 (0.3, 4.2)	1.8 (0.6, 5.5)
Suture Complication	1.7 (0.6, 5.3)	1.7 (0.6, 5.3)
Tenderness/ Soreness	0.5 (0.1, 3.7)	1.4 (0.3, 5.7)
Wrinkling ⁴	3.3 (1.5, 7.2)	4.0 (1.9, 8.2)

¹ 129 primary reconstruction patients experienced at least one complication or reoperation ²Implant Rupture (based on the MRI cohort) was assessed by MRI at 1, 2, 4 and 6 years (results provided in Table 3); there were no cases of rupture reported through 6 years in the non-MRI subgroup of primary reconstruction patients (N=117).

Table 5d. Cumulative Kaplan-Meier Adverse Event Risk Rates (95% Confidence Interval), By Patient for Revision-Reconstruction Cohort, N=68

	Year 3 % (95% CI)	Year 6 % (95% CI)
Any Complication Excluding Rupture ¹	55.5 (44.1, 67.7)	67.7 (56.0, 78.9)
Key Complications	Year 3 % (95% CI)	Year 6 % (95% CI)
Any Reoperation	28.4 (19.2, 40.9)	45.4 (34.0, 58.5)
Capsular Contracture Baker Grade III/IV	13.5 (7.0, 25.4)	16.4 (8.7, 29.8)
Implant Removal with or without Replacement	21.0 (13.0, 32.9)	34.2 (24.0, 47.3)
Implant Removal with Replacement with Study Device	4.4 (1.4, 13.1)	10.8 (4.9, 22.9)
Implant Rupture (Based on the MRI Cohort) ²	-	0
Infection	3.0 (0.8, 11.4)	3.0 (0.8, 11.4)
	Year 3	Year 6
Other Complications ≥ 1% ³	% (95% CI)	% (95% CI)
Asymmetry ⁴	6.1 (2.3, 15.6)	6.1 (2.3, 15.6)
Breast pain⁴	3.3 (0.8, 12.8)	3.3 (0.8, 12.8)
Capsular Contracture Baker II w/ Surgical Intervention	1.5 (0.2, 10.4)	3.7 (0.9, 14.2)
Capsular Contracture Baker III	13.5 (7.0, 25.4)	13.5 (7.0, 25.4)
Capsular Contracture Baker IV	0	3.0 (0.4, 19.6)
Death ⁵	1.7 (0.2, 11.6)	1.7 (0.2, 11.6)
Erythema (Redness)	1.5 (0.2, 10.0)	1.5 (0.2, 10.0)
Excess Skin/tissue	1.6 (0.2, 11.1)	1.6 (0.2, 11.1)
Gel Fracture ⁶	0	2.0 (0.3, 13.4)

³The following complications occurred at a rate less than 1%: capsular contracture Baker Grade unknown, external injury not related to breast implants, muscle atrophy, necrosis, new diagnosis of breast cancer, nipple complication, palpability-implant, swelling (excessive), symmastia, wound opening (dehiscence).

⁴Mild occurrences were excluded.

⁵All causes of death were reported by the investigator to be unrelated to study procedure or device.

⁶There were 3 diagnoses in 3 primary reconstruction patients: rheumatoid arthritis (10 months post implantation), other inflammatory arthritis (11 months post implantation), and other mechanical/degenerative condition (16 months post implantation).

Hematoma	1.5 (0.2, 10.0)	1.5 (0.2, 10.0)
Implant Immobility	1.9 (0.3, 12.9)	1.9 (0.3, 12.9)
Implant Rotation	1.5 (0.2, 10.4)	1.5 (0.2, 10.4)
Irritation/Inflammation	3.0 (0.8, 11.3)	3.0 (0.8, 11.3)
Lack of Projection	11.8 (5.8, 23.2)	13.7 (7.1, 25.6)
Loss of Definition of Inframammary Fold	1.5 (0.2, 10.0)	1.5 (0.2, 10.0)
Metastatic Disease	1.6 (0.2, 10.9)	1.6 (0.2, 10.9)
Muscle Atrophy	1.5 (0.2, 10.1)	1.5 (0.2, 10.1)
Palpability-Implant ⁴	3.5 (0.9, 13.4)	3.5 (0.9, 13.4)
Paresthesia (Numbness/Tingling)	3.4 (0.9, 12.9)	3.4 (0.9, 12.9)
Patient Dissatisfied With Aesthetic Appearance of Breast	6.3 (2.4, 15.9)	8.4 (3.5, 19.1)
Patient Dissatisfied With Feel of Implant	1.5 (0.2, 10.4)	3.8 (0.9, 14.6)
Position Dissatisfaction ⁴	4.9 (1.6, 14.4)	4.9 (1.6, 14.4)
Ptosis	5.0 (1.6, 14.8)	12.2 (5.5, 25.6)
Recurrent Breast Cancer	1.5 (0.2, 10.3)	3.6 (0.9, 13.9)
Scarring	1.5 (0.2, 10.3)	6.5 (2.1, 19.6)
Seroma	4.6 (1.5, 13.5)	4.6 (1.5, 13.5)
Silicone From Previous Rupture	1.5 (0.2, 10.0)	1.5 (0.2, 10.0)
Size Change-Patient Request	7.8 (3.3, 17.7)	9.9 (4.5, 20.8)
Size Change-Physician Assessment only	0	4.8 (1.2, 17.8)
Skin Lesion	1.8 (0.3, 12.2)	4.3 (1.1, 16.3)
Swelling (Excessive)	1.5 (0.2, 10.0)	1.5 (0.2, 10.0)
Wrinkling ⁴	9.5 (4.4, 20.0)	12.2 (5.9, 24.5)

¹ 46 revision-reconstruction patients experienced at least one complication or reoperation ² Implant Rupture (based on the MRI cohort) was assessed by MRI at 1, 2, 4 and 6 years (results provided in Table 3); there were no cases of rupture reported through 6 years in the non-MRI subgroup of revision reconstruction patients (N=31).

The risk of a patient experiencing any complication (excluding rupture) at some point through 3 and 6 years after implant surgery was also calculated. This risk through 3 years was 35% for primary augmentation patients and 41% for revision-augmentation patients. Through 6 years, this risk was 45% for primary augmentation patients and 53% for revision-augmentation patients. This risk through 3 years was 54% for primary reconstruction patients and 56% for revision-reconstruction patients. Through 6 years, this risk was 65% for primary reconstruction patients and 68% for revision-reconstruction patients.

³No complications occurred at a rate less than 1%.

⁴Mild occurrences were excluded.

⁵All causes of death were reported by the investigator to be unrelated to study procedure or device

⁶Gel fracture occurred in 1 revision-reconstruction patient.

MAIN REASONS FOR REOPERATION

This section includes the main reasons for reoperation. The rates exclude planned secondary surgeries and reoperations for which the only reason for reoperation was staged reconstruction. Percentages are based upon the number of reoperations. If multiple procedures were performed on a patient on the same date, they are considered to constitute a single reoperation, regardless of whether one or both breasts were involved.

If a bilateral reoperation had different primary reasons for reoperation for the left and right breast implants, a hierarchy of reasons for reoperation was used in order to establish a primary reason for reoperation. In these cases, the following hierarchy was used: Baker III capsular contracture, Baker II capsular contracture w/surgical intervention, breast pain, wrinkling, palpability-implant, asymmetry, ptosis, nipple complication, new diagnosis of breast cancer, breast mass/cyst, position dissatisfaction, patient dissatisfied with feel of implant, size change-patient request, size change-physician assessment only, and prophylactic mastectomy. These reasons are a complete list for all the cases of bilateral reoperation where a different primary reason for reoperation was given for the left and right breast implants.

Through 6 years, there were 239 additional surgical procedures performed in 122 reoperations involving 98 primary-augmentation patients. The most common reason for reoperation through 6 years was breast mass/cyst (18 of 122 reoperations). Table 6a below provides the main reason for each reoperation following initial implantation through 3 and 6 years for primary augmentation patients.

Table 6a. Main Reasons for Reoperation for Primary Augmentation Cohort

Table 6a. Main Reasons for Reoperation for Primary Au	Year 3	Year 6
	N=94	N=122
	Reoperations ¹	Reoperations ²
Primary Reason for Reoperation	n (%)	n (%)
Asymmetry	4 (4.3)	5 (4.1)
Capsular Contracture Baker Grade II with Surgical	1 (1.0)	0 (1.17)
Intervention	2 (2.1)	2 (1.6)
Capsular Contracture Baker Grade III/IV	3 (3.2)	3 (2.5)
Breast Mass/Cyst	9 (9.6)	18 (14.8)
Breast pain	2 (2.1)	2 (1.6)
Calcification	7 (7.4)	8 (6.6)
Delayed Wound Healing	1 (1.1)	1 (0.8)
Granuloma	1 (1.1)	1 (0.8)
Hematoma	5 (5.3)	5 (4.1)
Hypertrophic Scarring	7 (7.4)	8 (6.6)
Infection	3 (3.2)	3 (2.5)
Irritation/Inflammation	1 (1.1)	1 (0.8)
New Diagnosis of Breast Cancer	2 (2.1)	7 (5.7)
Nipple-Unacceptably Low Sensitivity	1 (1.1)	1 (0.8)
Position Dissatisfaction	4 (4.3)	7 (5.7)
Ptosis	7 (7.4)	10 (8.2)
Rupture	0	2 (1.6)
Seroma	2 (2.1)	2 (1.6)
Size Change-Patient Request	14 (14.9)	15 (12.3)
Wound Dehiscence	2 (2.1)	2 (1.6)
Wrinkling	2 (2.1)	2 (1.6)
Other	12 (12.8)	13 (10.7)
Excess Skin/Tissue	1 (1.1)	1 (0.8)
Implant Movement Upon Muscle Contraction	1 (1.1)	1 (0.8)
Implant Rotation	2 (2.1)	2 (1.6)
Loss of Definition of Inframammary Fold	1 (1.1)	1 (0.8)
Nipple Complication	2 (2.1)	2 (1.6)
Patient Dissatisfied with Aesthetic Appearance of		
Breast	2 (2.1)	2 (1.6)
Scarring	2 (2.1)	2 (1.6)
Skin Lesion	1 (1.1)	2 (1.6)
Missing	3 (3.2)	4 (3.3)

¹76 patients

Through 6 years, there were 79 additional surgical procedures performed in 36 reoperations involving 28 revision-augmentation patients. The most common reasons for reoperation in revision-augmentation patients through 6 years were breast mass/cyst, position dissatisfaction, wound dehiscence, and wrinkling (4 each of 36 reoperations). Table 6b below provides the main reason for each reoperation following initial implantation through 3 and 6 years for revision-augmentation patients.

² 98 patients

Table6b. Main Reasons for Reoperation for Revision-Augmentation Cohort

Tableob. Mail Reasons for Reoperation for Revision-Aug	Year 3	Year 6
	N=26	N=36
	Reoperations ¹	Reoperations ²
Primary Reason for Reoperation	n (%)	n (%)
Asymmetry	1 (3.8)	2 (5.6)
Capsular Contracture Baker Grade III/IV	0	1 (2.8)
Breast Mass/Cyst	1 (3.8)	4 (11.1)
Breast Pain	1 (3.8)	1 (2.8)
Calcification	0	1 (2.8)
Delayed Wound Healing	1 (3.8)	1 (2.8)
Hypertrophic Scarring	1 (3.8)	1 (2.8)
New Diagnosis of Breast Cancer	1 (3.8)	1 (2.8)
Position Dissatisfaction	4 (15.4)	4 (11.1)
Ptosis	2 (7.7)	2 (5.6)
Rupture	1 (3.8)	1 (2.8)
Size Change-Patient Request	3 (11.5)	3 (8.3)
Wound Dehiscence	4 (15.4)	4 (11.1)
Wrinkling	3 (11.5)	4 (11.1)
Other	2 (7.7)	5 (13.9)
Implant Movement Upon Muscle Contraction	1 (3.8)	1 (2.8)
Patient Dissatisfied with Aesthetic Appearance of Breast	1 (3.8)	1 (2.8)
Skin Lesion	0	2 (5.6)
Upper Pole Fullness	0	1 (2.8)
Missing	1 (3.8)	1 (2.8)

¹ 22 patients

Through 6 years, there were 189 additional surgical procedures performed in 108 reoperations involving 81 primary reconstruction patients. The most common reason for reoperation through 6 years was asymmetry (13 of 108 reoperations). Table 6c below provides the main reasons for the reoperations following initial implantation through 3 and 6 years for primary reconstruction patients.

Table 6c. Main Reasons for Reoperation for Primary Reconstruction Cohort

Primary Reason for Reoperation	Year 3 N=80 Reoperations ¹ n (%)	Year 6 N=108 Reoperations ² n (%)
Asymmetry	12 (15.0)	13 (12.0)
Capsular Contracture Baker Grade II with Surgical Intervention	1 (1.3)	2 (1.9)
Capsular Contracture Baker Grade III/IV	4 (5.0)	6 (5.6)
Breast Mass/Cyst	5 (6.3)	8 (7.4)
Calcification	0	1 (0.9)
Delayed Wound Healing	1 (1.3)	1 (0.9)
Excess Skin/Tissue	6 (7.5)	6 (5.6)
Extrusion	1 (1.3)	1 (0.9)

²28 patients

Primary Reason for Reoperation	Year 3 N=80 Reoperations ¹ n (%)	Year 6 N=108 Reoperations ² n (%)
Implant Rotation	4 (5.0)	4 (3.7)
Infection	1 (1.3)	1 (0.9)
Lack of Projection	3 (3.8)	5 (4.6)
New Diagnosis of Breast Cancer	0	1 (0.9)
Nipple-Unacceptably Low Sensitivity	0	1 (0.9)
Position Dissatisfaction	5 (6.3)	7 (6.5)
Ptosis	0	1 (0.9)
Scarring	5 (6.3)	5 (4.6)
Seroma	2 (2.5)	7 (6.5)
Size Change-Patient Request	4 (5.0)	4 (3.7)
Size Change-Physician Assessment only	4 (5.0)	4 (3.7)
Wrinkling	4 (5.0)	5 (4.6)
Other	10 (12.5)	12 (11.1)
Excessive Skin Along Incision	1 (1.3)	1 (0.9)
Implant Immobility	0	2 (1.9)
Lack of Nipple Projection	1 (1.3)	1 (0.9)
Patient Dissatisfied with Aesthetic Appearance of Breast	2 (2.5)	2 (1.9)
Recurrent Breast Cancer	2 (2.5)	2 (1.9)
Skin Lesion	1 (1.3)	1 (0.9)
Suspected Rupture	1 (1.3)	1 (0.9)
Suture Complications	1 (1.3)	1 (0.9)
Missing	9 (11.3)	14 (13.0)

¹ 68 patients

Through 6 years, there were 92 additional surgical procedures performed in 36 reoperations involving 29 revision-reconstruction patients. The most common reasons for reoperation through 6 years were capsular contracture Baker Grade III/IV and nipple complication (4 each of 36 reoperations). Table 6d below provides the main reason for each reoperation following initial implantation through 3 and 6 years for revision-reconstruction patients.

Table 6d. Main Reasons for Reoperation for Revision-Reconstruction Cohort

Primary Reason for Reoperation	Year 3 N=23 Reoperations ¹ n (%)	Year 6 N=36 Reoperations ² n (%)
Asymmetry	2 (8.7)	3 (8.3)
Capsular Contracture I with Surgical Intervention	1 (4.3)	2 (5.6)
Capsular Contracture Baker Grade III/IV	2 (8.7)	4 (11.1)
Breast Pain	1 (4.3)	1 (2.8)
Infection	1 (4.3)	1 (2.8)
Lack of Projection	1 (4.3)	3 (8.3)
Nipple Complication	3 (13.0)	4 (11.1)

² 81 patients

Primary Reason for Reoperation	Year 3 N=23 Reoperations ¹ n (%)	Year 6 N=36 Reoperations ² n (%)
Position Dissatisfaction	2 (8.7)	2 (5.6)
Seroma	1 (4.3)	1 (2.8)
Size Change-Patient Request	2 (8.7)	3 (8.3)
Wrinkling	3 (13.0)	3 (8.3)
Other	4 (17.4)	8 (22.2)
Breast Mass/Cyst	0	1 (2.8)
Excess Skin/Tissue	0	1 (2.8)
Implant Immobility	0	1 (2.8)
Patient Dissatisfied with Aesthetic Appearance of Breast	1 (4.3)	2 (5.6)
Recurrent Breast Cancer	1 (4.3)	1 (2.8)
Scarring	1 (4.3)	1 (2.8)
Skin Lesion	1 (4.3)	1 (2.8)
Missing	0	1 (2.8)

¹¹⁹ patients 229 patients

MAIN REASONS FOR BREAST IMPLANT REMOVAL

The main reasons for implant removal among primary augmentation patients in the MemoryShape[™] Core Study through 3 and 6 years are shown in Table 7a below. There were 70 implants removed in 37 patients through 6 years. Of these 70 implants, 22 (31%) were replaced with a study device. The most common reason for implant removal was patient requested size change (28 of the 70 implants removed).

Table 7a. Main Reasons for Breast Implant Removal for Primary Augmentation Cohort

Primary Reason for Implant Removal	Year 3 N=55 Implants Removed ¹ n (%)	Year 6 N=70 Implants Removed ² n (%)
Asymmetry	5 (9.1)	6 (8.6)
Capsular Contracture Baker Grade II with Surgical Intervention	3 (5.5)	3 (4.3)
Capsular Contracture Baker Grade III/IV	3 (5.5)	3 (4.3)
New Diagnosis of Breast Cancer	0	3 (4.3)
Position Dissatisfaction	4 (7.3)	6 (8.6)
Ptosis	2 (3.6)	4 (5.7)
Rupture	0	2 (2.9)
Size Change-Patient Request	26 (47.3)	28 (40.0)
Wrinkling	4 (7.3)	4 (5.7)
Other	6 (10.9)	7 (10.0)
Implant Rotation	2 (3.6)	2 (2.9)
Patient Dissatisfied with Aesthetic Appearance of Breast	4 (7.3)	4 (5.7)

	Year 3 N=55	Year 6 N=70
Primary Reason for Implant Removal	Implants Removed ¹ n (%)	Implants Removed ² n (%)
Prophylactic Mastectomy	0	1 (1.4)
Missing	2 (3.6)	4 (5.7)

¹28 patients

The main reasons for implant removal among revision-augmentation patients in the MemoryShapeTM Core Study through 3 and 6 years are shown in Table 7b below. There were 29 implants removed in 16 patients through 6 years. Of these 29 implants, 10 (35%) were replaced with a study device. The most common reason for implant removal was patient requested size change (7 of the 29 implants removed).

Table 7b. Main Reasons for Breast Implant Removal for Revision-Augmentation Cohort

	Year 3 N=24	Year 6 N=29
	Implant Removed ¹	Implants Removed ²
Primary Reason for Implant Removal	n (%)	n (%)
Asymmetry	2 (8.3)	3 (10.3)
Breast Pain	1 (4.2)	1 (3.4)
New Diagnosis of Breast Cancer	2 (8.3)	2 (6.9)
Position Dissatisfaction	1 (4.2)	2 (6.9)
Ptosis	2 (8.3)	2 (6.9)
Rupture	1 (4.2)	1 (3.4)
Size Change-Patient Request	7 (29.2)	7 (24.1)
Size Change-Physician Assessment only	1 (4.2)	1 (3.4)
Wrinkling	4 (16.7)	5 (17.2)
Wound Dehiscence	1 (4.2)	1 (3.4)
Other	2 (8.3)	4 (13.8)
Patient Dissatisfied with Aesthetic Appearance of Breast	2 (8.3)	2 (6.9)
Upper Pole Fullness	0	2 (6.9)

¹13 patients

The main reasons for implant removal among primary reconstruction patients in the MENTOR® MemoryShapeTM Core Study through 3 and 6 years are shown in Table 7c below. There were 58 implants removed in 39 patients through 6 years. Of these 58 implants, 13 (22%) were replaced with a study device. The most common reason for implant removal was asymmetry (7 of the 58 implants removed).

²37 patients

² 16 patients

Table 7c. Main Reasons for Breast Implant Removal for Primary Reconstruction Cohort

Primary Reason for Implant Removal	Year 3 N=34 Implants Removed ¹ n (%)	Year 6 N=58 Implants Removed ² n (%)
Asymmetry	6 (17.6)	7 (12.1)
Capsular Contracture Baker Grade II with Surgical Intervention	0	2 (3.4)
Capsular Contracture Baker Grade III/IV	3 (8.8)	5 (8.6)
Extrusion	1 (2.9)	1 (1.7)
Infection	1 (2.9)	1 (1.7)
New Diagnosis of Breast Cancer	0	1 (1.7)
Nipple-Unacceptably Low Sensitivity	0	1 (1.7)
Position Dissatisfaction	0	3 (5.2)
Ptosis	0	2 (3.4)
Seroma	0	2 (3.4)
Size Change-Patient Request	6 (17.6)	6 (10.3)
Size Change-Physician Assessment only	4 (11.8)	4 (6.9)
Wrinkling	3 (8.8)	3 (5.2)
Other	10 (29.4)	17 (29.3)
Breast Mass/Cyst	0	1 (1.7)
Implant Immobility	0	4 (6.9)
Implant Rotation	3 (8.8)	3 (5.2)
Implant Rotation 180 Degrees	1 (2.9)	1 (1.7)
Lack of Projection	4 (11.8)	6 (10.3)
Patient Dissatisfied with Aesthetic Appearance of Breast	2 (5.9)	2 (3.4)
Missing	0	3 (5.2)

¹26 patients

The main reasons for implant removal among revision-reconstruction patients in the MENTOR® MemoryShapeTM Core Study through 3 and 6 years are shown in Table 7d below. There were 36 implants removed in 22 patients through 6 years. Of these 36 implants, 8 (22%) were replaced with a study device. The most common reasons for implant removal were asymmetry and lack of projection (6 each of the 36 implants removed).

²39 patients

Table 7d. Main Reasons for Breast Implant Removal for Revision-Reconstruction Cohort

rable 74. Main Reasons for Breast implant Removal for Revision Reconstruction Control		
	Year 3 N=22	Year 6 N=36
	Implants	Implants
	Removed ¹	Removed ²
Primary Reason for Implant Removal	n (%)	n (%)
Asymmetry	4 (18.2)	6 (16.7)
Capsular Contracture Baker Grade II with Surgical Intervention	1 (4.5)	2 (5.6)
Capsular Contracture Baker Grade III/IV	0	2 (5.6)
Breast Pain	1 (4.5)	1 (2.8)
Infection	1 (4.5)	1 (2.8)
Position Dissatisfaction	4 (18.2)	4 (11.1)
Seroma	1 (4.5)	1 (2.8)
Size Change-Patient Request	2 (9.1)	4 (11.1)
Wrinkling	4 (18.2)	4 (11.1)
Palpability-Implant	0	1 (2.8)
Other	4 (18.2)	10 (27.8)
Implant Immobility	0	2 (5.6)
Lack of Projection	2 (9.1)	6 (16.7)
Patient Dissatisfied with Aesthetic Appearance of	1 (4.5)	1 (2.8)
Breast		
Recurrent Breast Cancer	1 (4.5)	1 (2.8)

¹¹⁴ patients

OTHER CLINICAL DATA FINDINGS

Below is a summary of clinical findings from Mentor's MemoryShape™ Core Study with regard to connective tissue disease (CTD), CTD signs and symptoms, cancer, lactation complications, reproduction complications, and suicide. These issues, along with other endpoints, are being further evaluated as part of the MENTOR® MemoryShape™ Post Approval Studies.

CTD DIAGNOSES

In the MemoryShapeTM Core Study, there were 7 primary augmentation patients, 1 revision-augmentation patient, and 3 primary reconstruction patients reported to have a new diagnosis of a CTD by a rheumatologist. There were no new diagnoses of CTD in the revision-reconstruction cohort. There were 10 diagnoses for the 7 primary augmentation patients: spondyarthropathies (25 months post implantation), other connective tissue disease (35 months post implantation), Sjögren's syndrome (35 and 42 months post implantation), systemic lupus erythematosus (35, 42, and 44 months post implantation), fibromyalgia (36 and 37 months post implantation), and undifferentiated connective tissue disease (41 months post implantation). There was 1 diagnosis for the revision-augmentation patient: rheumatoid arthritis (11 months post implantation). There were 3 diagnoses for the 3 primary reconstruction patients: rheumatoid arthritis (10 months post implantation), other inflammatory arthritis (11 months post implantation), and other mechanical/degenerative condition (16 months

²22 patients

post implantation). It cannot be concluded that these CTD diagnoses were caused by the implants because there was no comparison group of similar women without implants.

CTD SIGNS AND SYMPTOMS

Compared to before having implants, the following significant changes were found in the rheumatologic symptoms and physical examination findings after adjusting for the age effect: decreased night sweats in the primary reconstruction cohort and increased combined pain overall. No significant changes were found in the primary augmentation, revision-augmentation, or revision-reconstruction cohorts. The MemoryShapeTM Core Study was not designed to evaluate cause and effect associations because there is no comparison group of women without implants, and because other contributing factors, such as medications and lifestyle/exercise, were not studied. Therefore, it cannot be determined whether these changes were due to the implants or not, based on the MemoryShapeTM Core Study. However, your patient should be aware that she may experience an increase in these types of symptoms after receiving breast implants.

CANCER

There were four primary augmentation patients and one revision-augmentation patient with new diagnoses of breast cancer through six years in Mentor's MemoryShapeTM Core Study. As previous breast cancer was an exclusion criteria for augmentation patients, there were no reports of breast cancer reoccurrence in this cohort. For primary reconstruction, four patients had a diagnosis of recurrent breast cancer and one patient had a new diagnosis of breast cancer. Two revision-reconstruction patients had a diagnosis of recurrent breast cancer. No revision-reconstruction patients had a new diagnosis of breast cancer.

Through 6 years, there were no reports of other new cancers, such as brain, respiratory, or cervical/vulvar in any cohort.

In addition, through 6 years, there were no cases of ALCL in any cohort.

LACTATION COMPLICATIONS

Four of the 44 primary augmentation patients who attempted to breastfeed following breast implantation experienced difficulty with breast feeding through 6 years in Mentor's MemoryShapeTM Core Study. All 4 of the revision-augmentation patients who attempted to breastfeed after receiving breast implants had no difficulty. None of the primary reconstruction or revision-reconstruction patients attempted to breastfeed.

REPRODUCTION COMPLICATIONS

Eight primary augmentation patients, one revision-augmentation patient, and three primary reconstruction patients reported a miscarriage. There were no reports of miscarriage in the revision-reconstruction cohort.

SUICIDE

There were no reports of suicide in any of the four cohorts in Mentor's MemoryShape[™] Core Study through six years.

DEVICE IDENTIFICATION CARD

Enclosed with each silicone gel breast implant is a Patient ID Card. To complete the Patient ID Card, place one device identification sticker (Patient Record Label) for each implant on the back of the card. Stickers are located on the internal product packaging attached to the label. If a sticker is unavailable, the lot number, catalog number, and description of the device may be copied by hand from the device label. Patients should be provided with these cards for personal reference.

DEVICE RETRIEVAL EFFORTS

Mentor requests that any explanted devices be sent to Mentor Worldwide LLC, Product Evaluation Department, 3041 Skyway Circle North, Irving, TX 75038-3540 USA for examination and analysis. Please call 1-866-250-5115 for instructions and shipping information for return of explanted devices.

PRODUCT EVALUATION

Mentor requires that any complications or explantation resulting from the use of this device be brought to the immediate attention of Mentor, Product Evaluation Department at Mentor, 3041 Skyway Circle North, Irving, TX 75038-3540 USA.

HOW TO REPORT PROBLEMS WITH AN IMPLANT

FDA requires that serious injuries (defined as those that need medical or surgical intervention to prevent permanent damage) be reported by hospitals if they are aware of the serious injuries. In addition, injuries or complications can be voluntarily reported directly by the patient to FDA's MedWatch.

If you have a patient who has experienced one or more serious problems related to her breast implants, you are encouraged to report the serious problem(s) to the FDA through the MedWatch voluntary reporting system. Examples of serious problems include disability, hospitalization, harm to offspring, and medical or surgical intervention to prevent lasting damage.

You are also required to report any product problem or serious adverse event to Mentor. Deaths must be reported to Mentor and FDA. You can report by telephone to 1-800-FDA-1088; by FAX, use Form 3500 to 1-800-FDA-0178; electronically at http://www.fda.gov/medwatch/index.html; or by mail to MedWatch Food and Drug Administration, HF-2, 5600 Fishers Lane, Rockville, MD 20857-9787. Keep a copy of the completed MedWatch form for your records.

This information reported to MedWatch is entered into databases to be used to follow safety trends (patterns) of a device and to determine whether further follow-up of any potential safety issues related to the device is needed.

RETURNED GOODS AUTHORIZATION

U.S. CUSTOMERS

Merchandise returned must have all manufacturers' seals intact and must be returned within 60 days from date of invoice to be eligible for credit or replacement. Please contact the Mentor Customer Service Department for details. Returned products may be subject to restocking charges.

INTERNATIONAL CUSTOMERS

Authorization for return of merchandise should be obtained from your respective dealer. Other conditions noted above also apply.

PRODUCT REPLACEMENT POLICY AND ADVANTAGE LIMITED WARRANTIES

Mentor's Lifetime Product Replacement Policy and Advantage Limited Warranties provide limited replacement and limited financial reimbursement in the event of shell leakage or breakage resulting in breast implant rupture. For more information, please contact Mentor's Consumer Affairs Department at (866) 250-5115 or visit www.mentorwwllc.com.



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