

Breast Implants - Certain Labeling Recommendations to Improve Patient Communication

Draft Guidance for Industry and Food and Drug Administration Staff

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For questions about this document, contact the Center for Devices and Radiological Health's (CDRH) Division of Infection Control and Plastic Surgery Devices at 301-796-6970.

When final, the recommendations in this guidance will supplement or in some cases replace recommendations in FDA's Guidance [Saline, Silicone Gel, and Alternative Breast Implants](#) guidance, issued November 17, 2006.



U.S. Department of Health and Human Services
Food and Drug Administration
Center for Devices and Radiological Health
Office of Product Evaluation and Quality

Preface

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Draft Guidance for Industry and Food and Drug Administration Staff

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff or Office responsible for this guidance as listed on the title page.

I. Introduction

This draft guidance contains recommendations concerning the content and format for certain labeling information for saline and silicone gel-filled breast implants. FDA is issuing this draft guidance to help ensure that a patient receives and understands the benefits and risks of these devices. The recommendations are being made based on concerns that some patients are not receiving and/or understanding information regarding the benefits and risks of these devices.

FDA's guidance documents, including this draft guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidance means that something is suggested or recommended, but not required.

II. Background

Breast implants are medical devices implanted under the breast tissue or chest muscle to increase breast size (augmentation) or 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 (reconstruction). They are also used in revision surgeries, which correct or improve the result of an original surgery. The use of breast implants in reconstructive and augmentation procedures is elective, and alternatives to the use of breast implants exist (such as an external breast prosthesis).

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98 There are two types of breast implants approved for sale in the United States: saline-filled and
99 silicone gel-filled. Saline-filled breast implants are inflated to the desired size with sterile
100 isotonic saline. Silicone gel-filled breast implants contain a fixed volume of silicone gel. Silicone
101 gel viscosity differs among implants and manufacturers.

102
103 Breast implants are manufactured with smooth and textured surfaces. The outer surface, or
104 “shell” for both types of breast implants is manufactured from polysiloxane silicone rubber and
105 may vary in shell surface, shape, profile, volume, and thickness. For breast implants with a
106 textured shell surface, each breast implant manufacturer utilizes a proprietary manufacturing
107 process to create the textured surface, which means that each manufacturer’s textured shell is
108 different.

109
110 Over the past few years, FDA has received new information pertaining to risks associated with
111 breast implants, including breast implant-associated anaplastic large cell lymphoma (BIA-
112 ALCL) and systemic symptoms commonly referred to as breast implant illness (BII) that some
113 patients attribute to their implants. BIA-ALCL is a type of non-Hodgkin’s lymphoma (cancer of
114 the immune system). In most cases, BIA-ALCL is found in the scar tissue and fluid near the
115 implant, but in some cases, it can spread throughout the body. An individual’s risk of developing
116 BIA-ALCL is considered to be low; however, this cancer is serious and can lead to death,
117 especially if not treated promptly. In most patients, it is treated successfully with surgery to
118 remove the implant and surrounding scar tissue, but some patients may require chemotherapy
119 and radiation therapy. The most common symptoms of BIA-ALCL are persistent swelling,
120 presence of a mass or pain in the area of the breast implant that may occur years after implant
121 placement. Systemic symptoms such as fatigue, memory loss, rash, “brain fog,” and joint pain
122 have been reported by some patients with breast implants. The term “breast implant illness” has
123 been used to describe these symptoms. Researchers are investigating these symptoms to better
124 understand their origins. The exact relationship of these symptoms with breast implants is
125 unclear at this time.

126
127 FDA has taken a number of steps to better understand and address risks associated with breast
128 implants,¹ including convening the General and Plastic Surgery Devices Advisory Panel
129 (“Panel”) on March 25-26, 2019 to discuss the long-term benefits and risks of breast implants for
130 achieving breast augmentation and reconstruction.² The meeting covered a range of important
131 topics on breast implant safety, including characterization of BIA-ALCL incidence and risk
132 factors, and methods for assessing systemic symptoms. The Panel gave recommendations on
133 these topics, including recommending that FDA require a boxed warning in breast implant
134 labeling and a standardized checklist as part of the informed consent process, revise the MRI
135 screening recommendations for silent ruptures of silicone gel-filled breast implants, and provide
136 greater transparency regarding materials present in breast implants; the Panel also discussed the
137 role of the patient device card in providing important information about the patient’s breast

¹ For more information, see <https://www.fda.gov/medical-devices/implants-and-prosthetics/breast-implants>.

² For more information and meeting materials, see <https://www.fda.gov/advisory-committees/advisory-committee-calendar/march-25-26-2019-general-and-plastic-surgery-devices-panel-medical-devices-advisory-committee>.

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138 implant.³ In addition, FDA learned from presentations at the March 2019 Panel meeting and
139 through comments submitted to the associated public docket,⁴ that some patients may not be
140 receiving or understanding important information regarding the benefits and risks of breast
141 implants in a format that allows them to make a well-informed decision about whether or not to
142 have a breast implantation. Notably, approved labeling for currently marketed breast implants is
143 lengthy, often in excess of fifty pages.⁵

144
145 For these reasons, FDA is now providing recommendations concerning the content and format of
146 certain labeling information for these devices. Specifically, FDA is recommending that
147 manufacturers incorporate a boxed warning and a patient decision checklist into the labeling for
148 these devices to better ensure certain information is received and understood by patients. This
149 guidance also recommends updated and additional labeling information, including updates to the
150 silicone gel-filled breast implant rupture screening recommendations, inclusion of an easy-to-
151 find description of materials, and provision of patient device cards that were recommended at the
152 March 2019 Panel meeting.

153
154 The Agency will continue to monitor information about potential safety risks and take steps to
155 ensure they are being adequately conveyed to and understood by physicians and patients.
156

III. Scope

157
158 This draft guidance provides recommendations concerning the content and format of certain
159 labeling information for breast implants filled with saline or silicone gel indicated for breast
160 augmentation or breast reconstruction.

161
162 FDA believes it is important for patients considering breast implants to have the information they
163 need for a balanced discussion with their physicians regarding the benefits and risks of breast
164 implants. To help ensure that patients have this information, a boxed warning, a patient decision
165 checklist, and a patient information booklet/brochure specific to the breast implant should be
166 provided by manufacturers and given to patients prior to implantation. For those patients who
167 decide to have breast implants, a patient device card should also be provided to patients after
168 surgery. FDA intends to work with manufacturers of new breast implants through the premarket
169 approval application (PMA) process, and manufacturers of currently marketed breast implants
170 through the PMA supplement process, to integrate these important labeling recommendations.

171
172 This draft guidance is not intended to include a complete listing of all labeling components for
173 breast implants. When finalized, this draft guidance should be used as a complement to FDA's
174 "[Guidance on Medical Device Patient Labeling](#)"⁶ (which describes FDA's current thinking on

³ Ibid.

⁴ FDA-2019-N-0426.

⁵ In some cases, the labeling exceeds 100 pages. Links to patient labeling at the time FDA approved the implant are available here: <https://www.fda.gov/medical-devices/breast-implants/labeling-approved-breast-implants>.

⁶ <https://www.fda.gov/regulatory-information/search-fda-guidance-documents/guidance-medical-device-patient-labeling>.

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175 making medical device patient labeling understandable to and usable by patients), existing
176 regulations, and other relevant guidance documents containing additional labeling
177 recommendations.

178
179 This draft guidance, when finalized, also supplements FDA’s Guidance “[Saline, Silicone Gel,
180 and Alternative Breast Implants](#)”⁷ (hereafter referred to as the “[2006 Breast Implant Guidance](#)”)
181 and should not be construed as a replacement for that prior guidance. Manufacturers should
182 consider both the recommendations in this draft guidance, when finalized, as well as the
183 recommendations in the [2006 Breast Implant Guidance](#), unless it is specifically noted that the
184 recommendations in this guidance supersede the [2006 Breast Implant Guidance](#) (see Section V.
185 A Rupture Screening Recommendations Update and Section V. C Patient Device Card below).

186
187 We note that accurate product labeling and effective communication of that labeling are
188 important to help ensure that patients are aware of the risks associated with breast implants prior
189 to undergoing implantation. Moreover, a device shall be deemed misbranded if, among other
190 things: its labeling is false or misleading; its labeling does not contain adequate warnings; or any
191 information required to be in the labeling is not prominently placed with such conspicuousness
192 and in such terms to render it likely to be read and understood by the ordinary individual under
193 customary conditions of purchase and use (see sections 502(a), 201(n), 502(c), and 502(f)(2) of
194 the Federal Food, Drug, and Cosmetic Act (FD&C Act)).⁸

195

196 **IV. Labeling Components**

197 FDA recommends that the patient labeling for breast implants include a patient information
198 booklet/brochure, patient decision checklist, boxed warning, and patient device card.
199 Specifically, FDA believes manufacturers should include a boxed warning and patient decision
200 checklist to help ensure patients receive and understand information about the benefits and risks
201 of breast implants. This section contains FDA’s format and content recommendations for these
202 components, and to help illustrate, FDA has provided examples of each in the appendices.

203

204 **A. Boxed Warning**

205 FDA believes that a boxed warning should be part of physician and patient labeling materials for
206 breast implants. In general, boxed warnings are noticeable and easy to read and understand, and
207 FDA believes a boxed warning here would be particularly useful in communicating risks that
208 have been identified in new information and for which patients may be unaware. To achieve the
209 goals described above, FDA recommends that a boxed warning generally inform patients that:

210

- 211 • Breast implants are not considered lifetime devices;

⁷ <https://www.fda.gov/regulatory-information/search-fda-guidance-documents/saline-silicone-gel-and-alternative-breast-implants>.

⁸ Under section 301(a) of the FD&C Act, it is a prohibited act to introduce or deliver for introduction into interstate commerce any device that is misbranded.

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- 212 • The chance of developing complications increases over time;
- 213 • Some complications will require more surgery; and
- 214 • Breast implants have been associated with the risk of developing BIA-ALCL and may be
- 215 associated with systemic symptoms.

216

217 FDA believes that this form and content of boxed warning will help to ensure that patients
218 receive and understand information regarding the benefits and risks of these devices. An example
219 of a boxed warning that follows these recommendations is provided in **Appendix A**.

220

B. Patient Decision Checklist

222 FDA also believes that a patient decision checklist highlighting key information regarding risks
223 should be included at the end of the patient information booklet/brochure.

224

225 To help ensure the checklist is read and understood by patients, FDA recommends the following
226 elements and organization tips. First, FDA recommends that the introduction for the checklist
227 include a description of the purpose and importance of the checklist, as well as instructions to
228 patients on how to review and complete the document prior to deciding whether to undergo the
229 implant procedure. Next, to achieve the goals described above, FDA recommends that the body
230 of the checklist include the following:

231

- 232 • Situations in which the device should not be used or implanted;
- 233 • Considerations for a successful breast implant candidate;
- 234 • Risks of undergoing breast implant surgery;
- 235 • Importance of appropriate physician education, training and experience;
- 236 • Risk of BIA-ALCL and systemic symptoms; and
- 237 • Discussion of options other than breast implants.

238

239 Additionally, to help ensure the material is reviewed, FDA recommends the checklist allow for
240 patients and physicians to affirmatively acknowledge (e.g., via initials and/or signatures) that
241 specific information was read and discussed.

242

243 FDA recommends that a copy of the patient decision checklist be provided to the patient so that
244 the patient can refer back to this important information. The FDA also encourages device
245 manufacturers to develop a plan to ensure that patients are adequately informed of the risks of
246 breast implants and breast implant surgery, to update the checklist as additional data is collected
247 with post-market experience, and to provide a dedicated website link for each device that allows
248 providers involved in the care of breast implant patients and patients with that specific breast
249 implant to regularly monitor changes to the patient decision checklist, boxed warning, and
250 product label. FDA specifically recommends that the rates of BIA-ALCL included in the patient
251 decision checklist reflect current information based on estimated incidence rates. These rates
252 include overall incidence rates of BIA-ALCL, as well as rates for the manufacturer's specific
253 breast implant based on published literature, registries, and medical device reports.

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255 An example of a checklist that follows these recommendations is provided in **Appendix B**.
256 Please note the rates for risks provided in this example checklist are derived from percentages of
257 reported complications for approved breast implants in publicly available summaries of safety
258 and effectiveness data (SSEDs) at the time of issuance of this guidance document. These
259 numbers are provided for illustrative purposes only. FDA recommends that manufacturers’
260 patient decision checklists identify the percentages of reported complications for their specific
261 implants based on current information.
262

263 **V. Additional Labeling Recommendations**

264 This section contains additional labeling recommendations for the physician and patient labeling
265 of breast implants. Specifically, this section includes recommendations on rupture screening for
266 silicone gel-filled breast implants, materials/device description in the product labeling of breast
267 implants filled with saline or silicone gel indicated for breast augmentation or breast
268 reconstruction, and a patient device card.
269

270 The updated rupture screening recommendations follow the consensus recommendation of the
271 Panel to remove the current FDA MRI screening recommendations, and to adopt screening
272 recommendations that begin between years 5 and 6 post surgery, and occur every 2-3 years after
273 that.⁹ Additionally, FDA is also recommending ultrasound as an acceptable alternative for
274 screening asymptomatic patients pursuant to the Panel’s recommendation. These additional
275 labeling recommendations were discussed at the March 2019 Panel Meeting.¹⁰
276

277 As noted above, manufacturers should consider both the recommendations in this draft guidance,
278 when final, as well as the recommendations in the [2006 Breast Implant Guidance](#), unless it is
279 specifically noted that the recommendations in this guidance supersede the [2006 Breast Implant](#)
280 [Guidance](#) (see Section V. A Rupture Screening Recommendations Update and Section V. C
281 Patient Device Card below).
282

283 **A. Rupture Screening Recommendations Update**

284 When final, the recommendations below supersede the labeling recommendations with respect to
285 rupture screening in Sections 10.2 and 10.3 of the [2006 Breast Implant Guidance](#). The magnetic
286 resonance (MR) screening recommendations in Section 8.5 of the [2006 Breast Implant Guidance](#)
287 related to premarket studies are consistent with current recommendations. We recommend the
288 physician and patient labeling for silicone gel-filled breast implants¹¹ include the specific,
289 updated rupture screening recommendation as shown below:
290
291

⁹ 24-hour Panel meeting summary available at, <https://www.fda.gov/media/122960/download>.

¹⁰ For more information and meeting materials, see <https://www.fda.gov/advisory-committees/advisory-committee-calendar/march-25-26-2019-general-and-plastic-surgery-devices-panel-medical-devices-advisory-committee>.

¹¹ Saline filled breast implants do not have screening recommendations as rupture is detectable without screening.

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292 **Physician Labeling:**

293 For asymptomatic patients, the first ultrasound or magnetic resonance imaging (MRI) should be
294 performed at 5-6 years postoperatively, then every 2 years thereafter.

295
296 For symptomatic patients or patients with equivocal ultrasound results for rupture at any time
297 postoperatively, an MRI is recommended.

298
299 **Patient Labeling:**

300 It is recommended that you have periodic imaging of your silicone gel-filled breast implants to
301 screen for implant rupture regardless of whether your implants are for cosmetic augmentation or
302 reconstruction. These recommendations do not replace other additional imaging that may be
303 required depending on your medical history or circumstances (i.e., screening mammography for
304 breast cancer).

305
306 Even if you have no symptoms, you should have your first ultrasound or MRI at 5-6 years after
307 your initial implant surgery and then every 2 years thereafter. If you have symptoms at any time
308 or uncertain ultrasound results for breast implant rupture, an MRI is recommended.

309

310 **B. Materials/Device Descriptions**

311 At the March 2019 Panel meeting,¹² patients and panel members expressed concern about not
312 knowing the materials used in breast implants and the possible deleterious health effects of these
313 materials. They emphasized the importance of greater communication and transparency
314 regarding the materials present in breast implants to help patients to make an informed decision
315 about implantation in light of potential adverse effects due to these materials, including in the
316 event of rupture, leakage or diffusion. Therefore, in addition to the recommendations provided in
317 Section 10.3 of the [2006 Breast Implant Guidance](#), FDA recommends the patient information
318 booklet/brochure also include a detailed device description of the materials of construction of the
319 breast implant shell and filling in a format that is understandable to the patient. **Appendix C**
320 provides an example of a format that follows these recommendations. Please note the
321 concentrations included in the Materials Device Description Example in **Appendix C** are
322 provided for illustrative purposes only.

323

324 Although this information is currently publicly available in the FDA Summary of Safety and
325 Effectiveness Data (SSED) for each of the approved breast implants,¹³ FDA recommends this
326 detailed device description information be available and easily accessible to the patients to help
327 ensure transparency and patient safety. This device description information is intended to help
328 inform the patients of the types and quantities of chemicals and heavy metals that are detected in
329 breast implants. The patient should also be informed that most of these chemicals stay inside the

¹² For more information and meeting materials, see <https://www.fda.gov/advisory-committees/advisory-committee-calendar/march-25-26-2019-general-and-plastic-surgery-devices-panel-medical-devices-advisory-committee>.

¹³ See <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMA/pma.cfm>.

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330 shell of the implant but small quantities have been found to diffuse (gel bleed) through the
331 implant shell, even if the implant is intact and not ruptured or leaking.
332

333 **C. Patient Device Card**

334 Breast implants are subject to medical device tracking requirements under section 519(e) of the
335 FD&C Act; tracking is intended to facilitate notification and recall in the event a device presents
336 a serious risk to health that requires prompt attention. As such, we believe it is important to
337 include specific information related to the device in the patient device card. When final, the
338 recommendations below supersede the labeling recommendations with respect to the patient
339 device card in Section 10.4 of the [2006 Breast Implant Guidance](#).
340

341 This piece of labeling has been referred to in different ways by manufacturers, such as
342 manufacturer device card, patient identification card, or patient information card. Regardless of
343 the name used, the purpose of the patient device card is to provide patients with specific
344 information about their device(s). As such, FDA recommends that the card clearly be labeled so
345 that the physician can easily find it and provide it to the patient immediately following surgery.
346

347 Additionally, we recommend that the device card include, but need not be limited to, the
348 following information:
349

- 350 • A statement that “This card belongs to the patient. Please give it to the patient.”
- 351 • Device’s serial or lot number;
- 352 • Device’s style and size;
- 353 • Unique Device Identifier (UDI);¹⁴
- 354 • Boxed Warning; and
- 355 • Web link to access most current patient decision checklist, boxed warning, and labeling
356 for the specific implant that the patient received.
357

¹⁴ For additional details on the requirements for the unique device identifier, see FDA’s Unique Device Identification System final rule (78 FR 58785 (Sep. 2013)).

358

Appendix A: Boxed Warning Example

WARNING:

- **Breast implants are not considered lifetime devices. The longer people have them, the greater the chances are that they will develop complications, some of which will require more surgery.**
- **Breast implants have been associated with the development of a cancer of the immune system called breast implant-associated anaplastic large cell lymphoma (BIA-ALCL). This cancer occurs more commonly in patients with textured breast implants than smooth implants, although rates are not well defined. Some patients have died from BIA-ALCL.**
- **Patients receiving breast implants have reported a variety of systemic symptoms such as joint pain, muscle aches, confusion, chronic fatigue, autoimmune diseases and others. Individual patient risk for developing these symptoms has not been well established. Some patients report complete resolution of symptoms when the implants are removed without replacement.**

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Appendix B: Patient Decision Checklist Example

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To the patient considering breast implants filled with saline or silicone gel intended for breast augmentation or breast reconstruction:

The review and understanding of this document is a critical step in making the decision whether you should choose breast implant surgery. You should learn about breast implants and then carefully consider the benefits and risks associated with breast implants and breast implant surgery before you make that decision. This form lists important risks, including those known or reported to be associated with the use of the device based on information from clinical trials, scientific literature, and reports from patients who have undergone device placement.

The patient labeling should include the patient information booklet/brochure, patient device card, boxed warning and patient decision checklist. This patient decision checklist is intended to supplement the additional patient labeling that should be provided to you by your physician. After reviewing the information in the patient information booklet/brochure for the specific implant that will be used, please read and discuss the items in this checklist carefully in consultation with your physician. You should place your initials in the location provided next to each item to indicate that you have read and understood the item. Your full signature at the end of this document means that you have read the materials and that your physician has answered all questions to your satisfaction.

Considerations for a Candidate for Successful Breast Implantation

I understand that I am not a candidate for breast implants if any of the following situations applies to me:

- I have an active infection anywhere in my body;
- I have an existing cancer or pre-cancer of my breast tissue that has not been adequately treated; or
- I am pregnant or nursing.

I understand that if I have any of the following conditions, I may be at a higher risk for a poor surgical outcome:

- Autoimmune disease (e.g., Hashimoto’s, Lupus, Rheumatoid Arthritis) or family history of autoimmune disease;
- Medical condition that affects my body’s ability to heal (e.g., diabetes, connective tissue disorder);
- Active smoker or a former smoker;
- Currently taking drugs that weaken the body’s natural resistance to disease, such as steroids and chemotherapy drugs (e.g., prednisone, tacrolimus, sirolimus, mycophenolate, azathioprine, cyclosporine, methotrexate, chlorambucil, leflunomide, or cyclophosphamide);

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- 409
- History of chemotherapy or planned chemotherapy following breast implant placement;
 - History of radiation therapy or planned radiation following breast implant placement;
 - Conditions that interfere with wound healing or blood clotting (e.g., hemophilia, von Willebrand disease, factor V leiden, hyperhomocysteinemia, protein C deficiency, anti-thrombin III deficiency, or systemic lupus erythematosus); or
 - Reduced blood supply to the breast tissue.

410

411 I understand the following conditions have not been adequately studied to determine whether the
412 conditions put me at higher risk:

413

- 414
- 415
- 416
- Clinical diagnosis of depression or other mental health disorder (including body dysmorphic disorder or eating disorder); or
 - Have other products permanently implanted in the breast.

417

418 Patient Initials: _____

419

420 **Risks of Breast Implant Surgery**

421

422 I understand that there are risks of undergoing breast implant surgery. I understand that risks of
423 undergoing breast implant surgery may include:

424

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- bleeding (may occur but specific rates are not publicly available in SSEDs),
 - hematoma (reported in up to 2.8% of procedures),
 - infection requiring possible removal of implant (reported in up to 9% of procedures),
 - scarring (reported in up to 7% of procedures),
 - breast pain (reported in up to 36.5% of procedures),
 - chronic pain (may occur but specific rates are not publicly available in SSEDs),
 - skin or nipple areola sensitivity changes or loss (reported in up to 35% of procedures),
 - inability to breast feed (reported in up to 1.6% of procedures),
 - asymmetry (reported in up to 28% of procedures),
 - fluid collections (seroma) (reported in up to 6.5% of procedures),
 - swelling (reported in up to 9% of procedures),
 - damage to deeper structures (may occur but specific rates are not publicly available in SSEDs),
 - tissue death of my breast skin or nipple (reported in up to 2% of procedures),
 - impact of aging or weight change on size and shape of breast (reported in up to 10% of procedures),
 - impact on imaging of breast tissue (may occur but specific rates are not publicly available in SSEDs) and
 - risks of anesthesia (reported in up to 1% of procedures).

443

444 My provider has discussed these risks and has provided me with the patient information
445 booklet/brochure with information on the types of risks that are possible and expected rates of
446 occurrence.

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448 My physician has discussed the potential use of other implanted products during my breast
449 implant surgery. My physician has also discussed the risks and benefits of using these implanted
450 products and their planned surgical approach.

451
452 Patient Initials: _____
453

454 **Risk of Cancer - Breast Implant-Associated Anaplastic Large Cell Lymphoma (BIA-**
455 **ALCL)**

456
457 I understand that breast implants are associated with the development of a type of cancer of the
458 immune system called Breast Implant-Associated Anaplastic Large Cell Lymphoma (BIA-
459 ALCL). The current information available suggests that the risk of developing BIA-ALCL varies
460 from 1 in 3,817 to 1 in 30,000 patients with textured breast implants. I understand that this
461 cancer has been reported more frequently for textured breast implants, but that patients with
462 smooth surfaced implants have also been diagnosed.

463
464 I understand that patients with breast implants have a higher risk of developing BIA-ALCL
465 within the scar tissue and fluid surrounding the breast implant.

466
467 I understand that BIA-ALCL typically takes several years to develop after implantation, but
468 cases have been reported as early as within one year. Typical symptoms to be aware of include:
469 swelling, breast tightness, pain, lumps, or swelling of the breast months or years after I receive
470 my implants.

471
472 I understand that treatment for BIA-ALCL involves an operation to remove the implants and the
473 surrounding scar tissue capsule. Based on the stage of the cancer at diagnosis, some patients have
474 required chemotherapy or radiation. While BIA-ALCL typically responds well to therapy, some
475 patients have died from BIA-ALCL. Diagnosis and treatment may be at my own expense and is
476 not always covered by insurance.

477
478 Patient Initials: _____
479

480 **Systemic Symptoms**

481
482 I understand that some patients who have received breast implants have reported a variety of
483 systemic symptoms including joint pain, fatigue, rash, memory loss, and “brain fog” that some
484 patients have called breast implant illness. While the causes of these symptoms are unclear, some
485 patients have reported relief of these symptoms with removal of their implants and surrounding
486 scar tissue capsule. Researchers are working to better understand the possible link between breast
487 implants and these symptoms.

488
489 I also understand that some patients with breast implants have reported health problems in their
490 children after birth or breastfeeding. While a causal link between breast implants and these
491 reported health problems in children has not been demonstrated, more research is needed.
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493 Patient Initials: _____

494

495 **Breast-Implant Specific Risks**

496

497 I understand that a breast implant is NOT a lifetime device and the longer I have my implants,
498 the more likely I am to experience a complication and the more likely I am to require a
499 reoperation requiring the replacement or removal of my breast implant. As many as 20 percent of
500 women who receive breast implants for augmentation have to have their implants removed
501 within 8 to 10 years, but my implants may last for a shorter or longer time.

502

503 I understand that my breast implant may rupture or leak. I understand that if I have a saline-filled
504 implant, my breast may deflate in appearance if there is a rupture or leakage of the saline.

505

506 I understand that if I have a silicone gel-filled breast implant, I or the doctor may not be able to
507 tell on physical exam whether my implant has ruptured or is leaking silicone gel. Because
508 rupture or leakage of silicone gel-filled breast implants is difficult to detect, I understand that
509 periodic imaging evaluation is recommended for screening of silicone gel-filled breast implant
510 rupture. It is recommended that I have periodic imaging of my silicone gel-filled breast implants
511 to screen for implant rupture regardless of whether my implants are for cosmetic augmentation or
512 reconstruction. These recommendations do not replace other additional imaging that may be
513 required depending on my medical history or circumstances (i.e., screening mammography for
514 breast cancer).

515

516 Even if I have no symptoms, I should have regular imaging evaluations as described in the
517 “Recommended Follow-Up” section below. These imaging evaluations may not detect all
518 ruptures or leaks, be costly, and the expense may not be covered by my medical insurance.

519

520 I understand that silicone can migrate from my implant into nearby tissues (e.g., chest wall,
521 lymph nodes under the arm) and organs (e.g., liver, lungs) where it may not be possible to
522 remove. Ruptured silicone implants should be removed as soon as possible because they may
523 cause health problems.

524

525 I understand that all breast implants can interfere with mammography and breast exams, which
526 could delay the diagnosis of breast cancer. Mammography can also cause the breast implant to
527 rupture or leak. I should tell the mammography technician if I have breast implants.

528

529 I understand that the long-term risks of breast implants may include:

- 530 • painful or tightening of scar tissue around my implant (capsular contracture) (reported in
531 up to 51.7% of patients),
- 532 • rupture or leaking of the implant (reported in up to 31.2% of patients),
- 533 • wrinkling of the implant (reported in up to 20% of patients),
- 534 • visibility of the implant edges (reported in up to 6% of patients),
- 535 • shifting of the implant (reported in up to 11.5% of patients), or
- 536 • need for reoperation (reported in up to 59.7% of patients).

537

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538 I understand that I will receive a patient device card after my surgery that has information on
539 each of my specific implants. I understand that it is important for me to keep each card in case I
540 or my doctor need to know what kind of implant I have many years later.

541
542 I understand that all breast implants contain chemicals and small amounts of heavy metals. A list
543 of the components, chemicals, and heavy metals is available in the patient information
544 booklet/brochure.

545
546 Patient Initials: _____

547
548 **Recommended Follow-up**

549
550 Even if I have no symptoms, I should have my first ultrasound or MRI at 5-6 years after my
551 initial implant surgery and then every 2 years thereafter. If I have symptoms or uncertain
552 ultrasound results for breast implant rupture at any time, an MRI is recommended.

553
554 I understand that I will need routine and regular follow up with my physician as long as I have a
555 breast implant for examination of my breast implant as well as to discuss any updates regarding
556 breast implant issues.

557
558 Patient Initials: _____

559
560 **Questions for My Physician**

561
562 I have had the opportunity to ask my physician questions about his or her experience, medical
563 degree, specialty of training, and credentials. I understand that breast implants have associated
564 procedural risks and should only be used by physicians who are appropriately trained.

565
566 Patient Initials: _____

567
568 **Options Following Mastectomy**

569
570 I understand that breast reconstruction is an elective procedure which I can choose to do or not.

571
572 I understand that I may choose not to have breast reconstruction (“going flat”) and may choose to
573 use an external prosthesis in my bra to look like I have a breast when wearing clothes.

574
575 I understand the surgical options for breast reconstruction, including the use of a breast implant
576 and the use of my own tissue (“autologous reconstruction”).

577
578 I understand that if my breast implants are ever removed I may be left with dimpling, chest wall
579 concavity, puckering, or sagging of my breasts or skin.

580
581 I understand that more surgeries may be necessary in the future due to complications or to
582 remove or replace the breast implants.

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583
584 I have discussed all of the options for breast reconstruction with my provider, including whether
585 I am a candidate and the benefits and risks of each, and I believe that breast reconstruction with a
586 breast implant is the best option for me.

587
588 Patient Initials: _____

589
590 **Breast Augmentation Options**

591
592 I understand that breast augmentation is an elective procedure to increase the size of my breasts.

593
594 I understand that breast augmentation may result in permanent changes to my breast tissue and if
595 my implants are ever removed I may be left with changes to size and shape of my breasts,
596 including but not limited to dimpling, puckering, or sagging.

597
598 If I am an augmentation patient, any additional surgeries or medical procedures will likely be at
599 my own expense.

600
601 Patient Initials: _____

602
603
604 **CONFIRMATION OF DISCUSSION OF RISKS**

605
606 **Patient:** I acknowledge that I have received and read the patient information booklet/brochure
607 for the specific implant that will be used during my surgery and that I have had time to discuss
608 the information in it and on this document with my doctor. I have had the opportunity to ask
609 questions and understand the benefits and risks of breast implants for me, given my specific
610 health conditions. I have considered alternatives to breast implants, including reconstruction
611 without breast implants, no reconstruction/augmentation, and their benefits and risks.

612
613
614 _____
615 Patient Signature and Date

616
617
618
619 **Physician:** I acknowledge that I have discussed the benefits and risks of breast implants as
620 described in the patient information booklet/brochure as well as this document. I have also
621 explained the benefits and risks of the alternatives. I have encouraged the patient to ask
622 questions, and I have addressed all questions.

623
624
625 _____
626 Physician Signature and Date

627

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628 **Appendix C: Materials Device Description Example**

629
630 FDA recommends that patient labeling include tables listing breast implant materials, chemicals
631 that can be released from breast implants and heavy metals present in breast implants. The
632 following tables provide examples for providing this information.

633 **1. Breast Implant Device Materials**

634

| Device Materials |
|--|
| Dimethyl Silicone Elastomer Dispersion |
| Diphenyl Silicone Elastomer Dispersion |
| MED 4750 Silicone Elastomer |
| Silicone Gel |
| Platinum catalyst |

635

636 **2. Chemicals Released by Breast Implants**

637

638 **Volatiles:** Chemicals that are released by breast implants as a gas.

639 **Extractables:** Chemicals that are released by breast implants following soaking in water
640 and/or organic solvent (liquid).

| Volatiles | | Extractables | |
|------------------------------|---------------------|--------------------------|--------------------|
| Compound | Whole Device (ppm*) | Compound | Whole Device (ppm) |
| D ₃ Siloxane | 0.18 | D ₃ Siloxane | 0.5 |
| D ₄ Siloxane | 0.46 | D ₄ Siloxane | <2.5 |
| D ₅ Siloxane | 1.47 | D ₅ Siloxane | <4.8 |
| Methoxytrimethylsilane | 0.43 | D ₆ Siloxane | <8.4 |
| Dimethoxydimethylsilane | 0.03 | D ₇ Siloxane | <8.4 |
| Methoxytriethoxysilane | ND | D ₈ Siloxane | <8.3 |
| Tetramethyldiethyldisiloxane | 0.04 | D ₉ Siloxane | <10.92 |
| Acetone | 0.18 | D ₁₀ Siloxane | <21.86 |

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| | | | |
|-------------------------|-------------|----------------------------------|-------------------|
| Isopropanol | 0.26 | D ₁₁ Siloxane | 32.92 |
| 2-Pentanone | ND | D ₁₂ Siloxane | 47.85 |
| Methyl Butanoate | 0.01 | D ₁₃ Siloxane | 113.11 |
| Ethylbenzene | ND | D ₁₄ Siloxane | 172.4 |
| m- & p-xylene | 0.08 | D ₁₅ Siloxane | 203.8 |
| 4-Methyl-3-penten-2-one | 0.01 | D ₁₆ Siloxane | 584.9 |
| o-xylene | ND | D ₁₇ Siloxane | 533.0 |
| Alpha-Pinene | ND | D ₁₈ Siloxane | 429.4 |
| Cyclohexanone | ND | D ₁₉ Siloxane | 609.9 |
| 1-Ethyl-2-methylbenzene | 0.01 | D ₂₀ Siloxane | 775.5 |
| Decane | ND | o-Xylene | <0.4 |
| Benzaldehyde | 0.01 | Siloxane | 3.9 |
| 1,3,5-Trimethylbenzene | 0.01 | Di(Ethylhexyl) Phthalate | ND |
| Limonene | 0.01 | Total Extractables (µg/g) | <4086.7 |
| Undecane | 0.35 | | |
| Acetophenone | 0.01 | | |
| Dodecane | 0.07 | | |
| Total Volatiles | 3.67 | | |

641
642
643
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647

Data preceded with a “<” symbol means that the level of the individual component, if present, was below the method detection limit indicated. ND=Not detected.

*ppm = parts per million

3. Heavy Metals Found in Breast Implants

| Heavy Metals | |
|---------------------|----------------------------|
| Metal | Concentration (ppm) |
| Antimony | 0.014 |
| Arsenic | 0.123 |
| Barium | 0.001 |
| Beryllium | 0.006 |
| Cadmium | 0.002 |
| Chromium | 0.028 |
| Cobalt | 0.052 |
| Copper | 0.025 |

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| | |
|------------|-------|
| Lead | 0.011 |
| Magnesium | 0.391 |
| Mercury | 0.004 |
| Molybdenum | 0.001 |
| Nickel | 0.050 |
| Platinum | 0.299 |
| Selenium | 0.069 |
| Silver | 0.001 |
| Tin | 0.004 |
| Titanium | 0.033 |
| Vanadium | 0.310 |
| Zinc | 0.034 |

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