

Bodylogic: A New Method for Breast Implant Surgery Decision Making

Bruce Cunningham M.D, M.S.



Breast Implant Selection

In my opinion:

There is currently no workable formula to guide implant selection in breast augmentation that allows for individual surgical judgement and experience

Breast Implant Selection

Observations:

- For a given patient, there are any number of different devices which may be equally optimal, and even more that are practically acceptable*
- Shape, texture, dimension and fill can all mix and match in countless ways to provide good, consistent results*

Breast Implant Selection

Observations:

- *Within a given framework, surgical technique is just as important, and likely more important than specific implant choice*

Breast Implant Selection

In my opinion:

*There is a need for a system
that describes the involved
variables and provides leeway
in making choices for
individual patients and
circumstances*

Breast Implant Selection

Variables Influencing Implant Choice *Round Saline Implants*

- Upper pole skin thickness
- Breast base diameter
- Skin laxity
- Existing parenchyma
- Inframammary fold location
- Patient expectations

Breast Implant Selection

Principles

- 1. Upper pole skin thickness:*
 - If greater than 2cm, subglandular placement acceptable*
 - If less than 2 cm, subpectoral placement “may” to create smoother contour*

Breast Implant Selection

Principles – Subglandular Placement



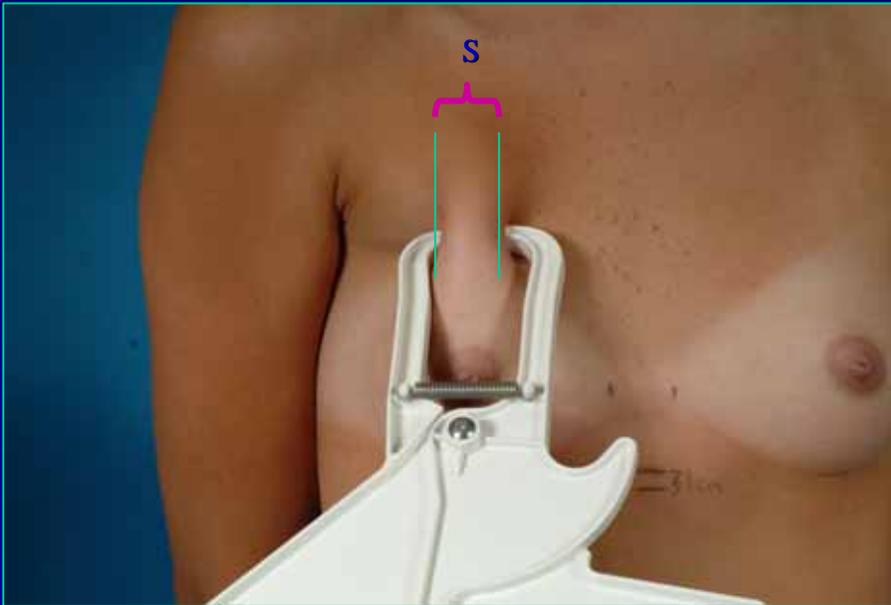
Breast Implant Selection

Principles



Breast Implant Selection

Principles



- *Skin fold calipers*
- *Measure skin pinch at proposed upper border of implant*
- *Guides decision for subpectoral versus subglandular*
- *Guides selection of saline versus silicone versus anatomic*

Breast Implant Selection

Principles

2. Base diameter:

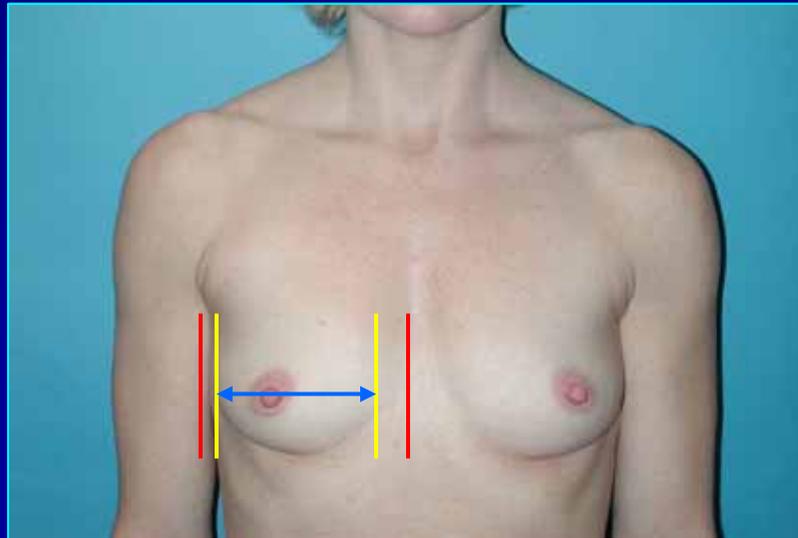
- Measured in cm with 1 cm tolerance*
- Guides implant selection*

Breast Implant Selection

Principles

2. Base diameter:

- Centered on NAC*
- Subtract SQ thickness - BUT how much???*



Breast Implant Selection

Principles

2. Base diameter:

- Measure external fold medial to lateral*

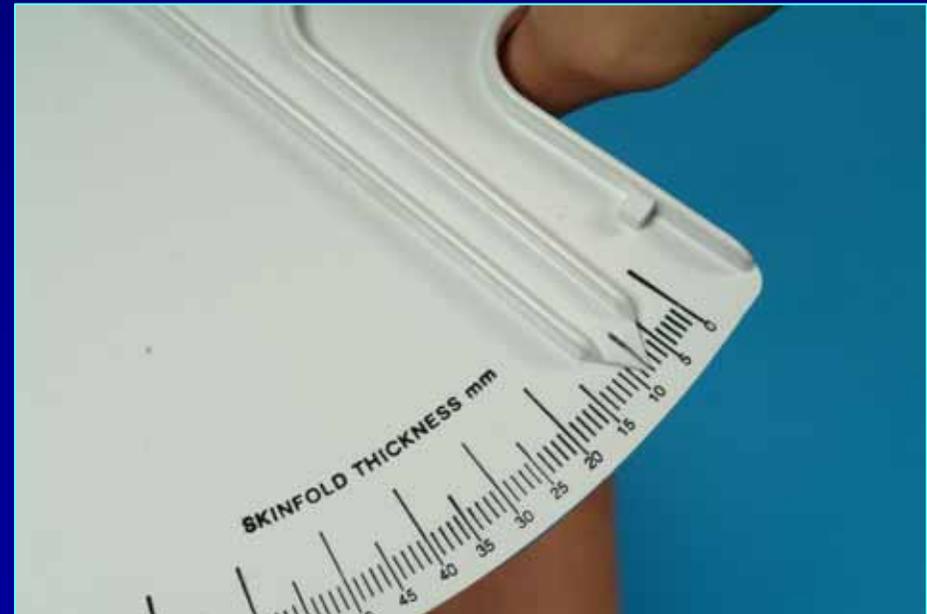


Breast Implant Selection

Principles

2. Base diameter:

- Measure medial skin fold*



Breast Implant Selection

Principles

2. Base diameter:

- Measure lateral skin fold*



Breast Implant Selection

Principles

Base diameter = External breast width – (1/2 medial pinch + 1/2 lateral pinch)

$$143 \text{ mm} - (8/2 \text{ mm} + 8/2 \text{ mm}) = 135 \text{ mm (13.5 cm)}$$

- Represents an average BD
- 1 cm tolerance (13.0 – 14.0 cm)

Breast Implant Selection

Principles

3. Skin laxity:

- Graded as tight, moderate, loose
- Guides choice of implant projection



Breast Implant Selection

Principles



- Graded as tight, moderate, and loose
- Generally speaking will use:
 - moderate profile for tight*
 - moderate plus for moderate*
 - High profile for loose*
- Taken into account with other variables
- Can avoid implant/soft tissue mismatch

Breast Implant Selection

Principles

4. Skin envelope fill :

- Graded as underfilled, filled, overfilled*
- Guides choice of implant projection*

Breast Implant Selection

Principles



- Graded as underfilled, filled, overfilled
- Generally speaking will use:
 - moderate plus/high profile*
for underfilled
 - moderate/moderate plus profile*
for filled
 - moderate profile*
for overfilled
- Taken into account with other variables
- Can avoid implant/soft tissue mismatch

Breast Implant Selection

Principles

5. Inframammary fold position :

- Maintain*
- Lower via supra-fascial release*
- Lower via subfascial release*

*(automatic 2cm lowering once
fascia violated)*

Breast Implant Selection

Principles

6. Patient expectations :

1 - Modest “natural” result

2 - Large “natural” result

3 - Large “slightly out of proportion” result

*4 - Large “significantly out of proportion”
result*

Breast Implant Selection

“Bodylogic” Implant Selection System

- *Implant system based of these principles*
- *Designed to identify variables that can affect the result*
- *Designed to be as simple as possible*
- *Designed to allow for individual judgment and experience*
- *Designed to be widely applicable*

Breast Implant Selection

Implant Design Variables

- *Base Diameter*
- *Volume*
- *Projection*

Breast Implant Selection

Choosing an Implant

- 1 - Select a primary variable*
- 2 - Select secondary variable that maximizes choice to meet specific needs*
- 3 - Select tertiary variable as required using options as available*

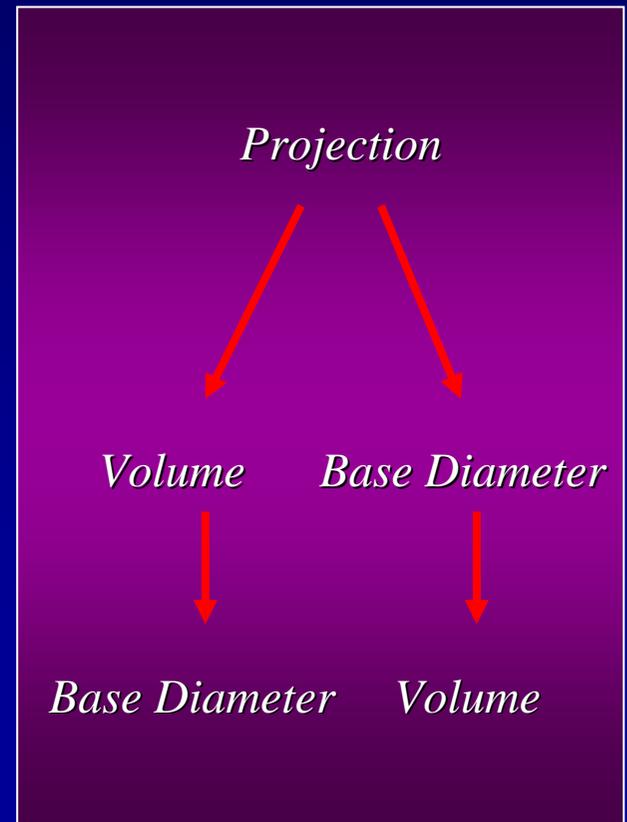
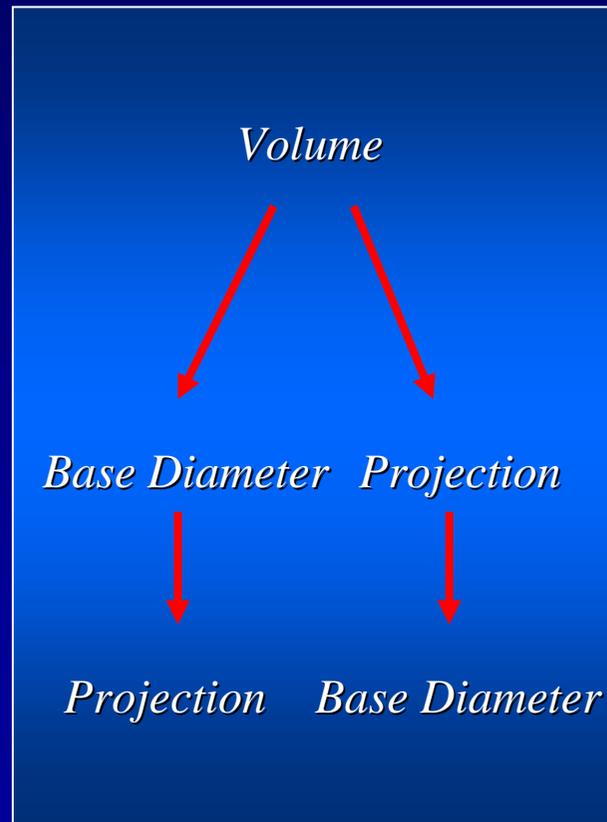
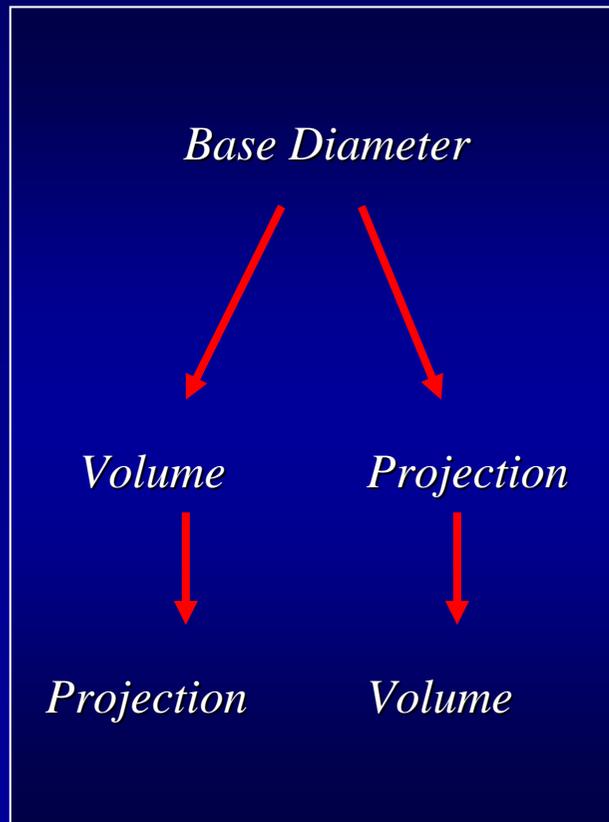
Breast Implant Selection

Choosing an Implant

- *Once the first two variables are set, the third variable is chosen by default*
- *Goal is to choose the first two to best match up to the patient, and not end up with the third variable causing a deformity*

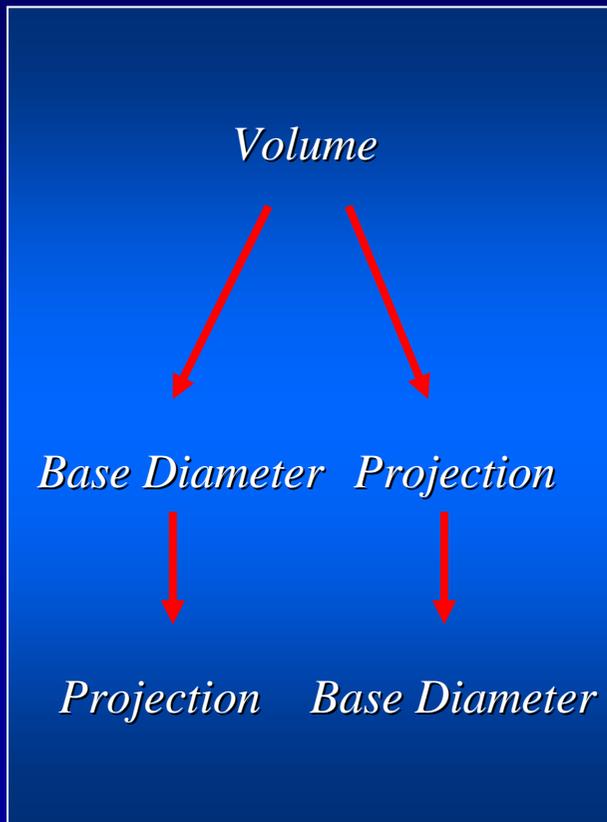
Breast Implant Selection

Implant Design Variables



Breast Implant Selection

Implant Design Variables

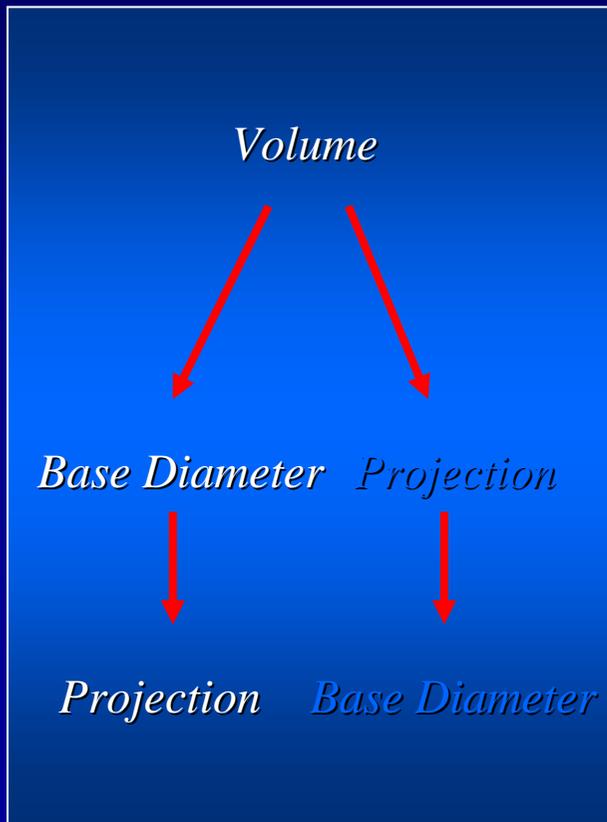


- 1 - Volume
- 2 - Projection or BD?
 - Base diameter
- 3 - Projection

Reason - For a given volume, have a much greater variety of choice in base diameter As opposed to projection

Breast Implant Selection

Implant Design Variables



- 1 - Volume
- 2 - Projection or BD?
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Reason - For a given volume, have a much greater variety of choice in base diameter As opposed to projection

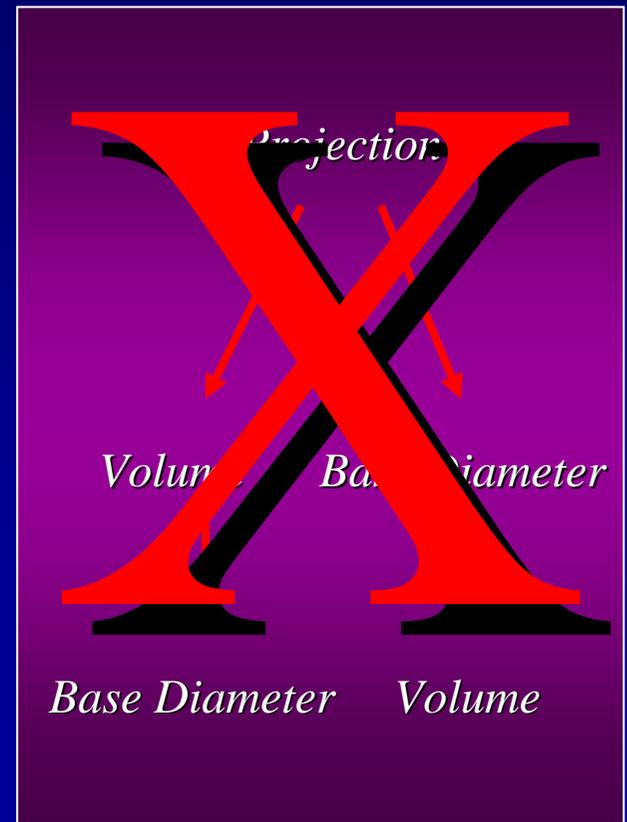
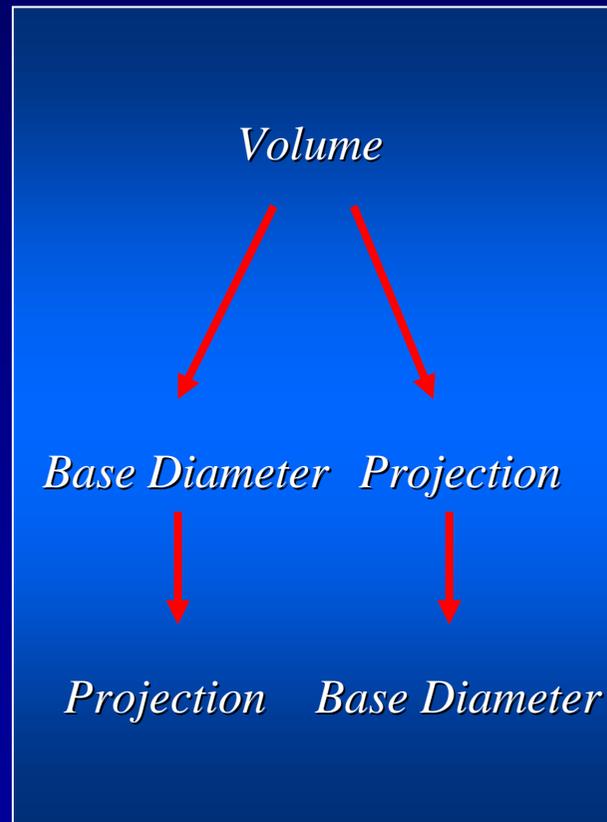
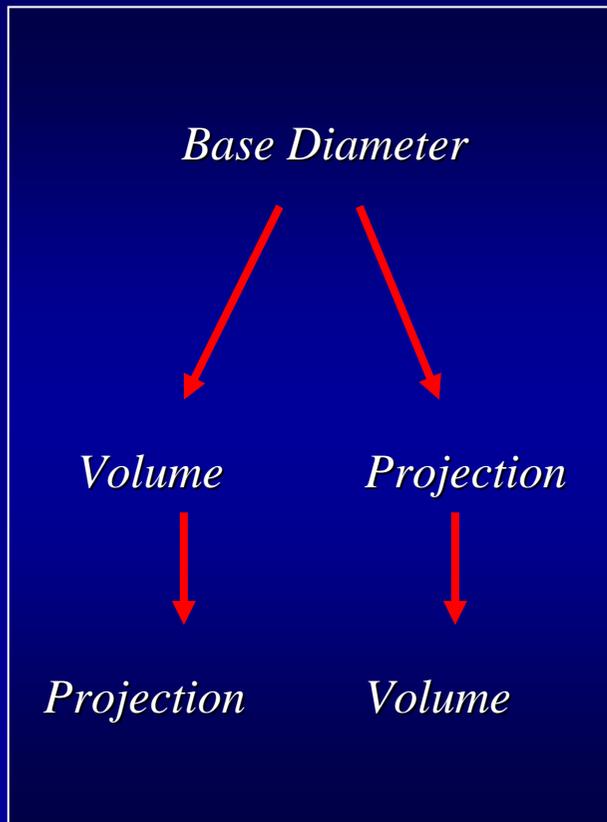
Breast Implant Selection

Choosing an Implant

- All three methods are viable strategies for choosing an implant!*
- Basing the primary variable on BD or volume gives the most versatility*
- Must take into account patient desires*
- Must match your selection to the patients anatomy*

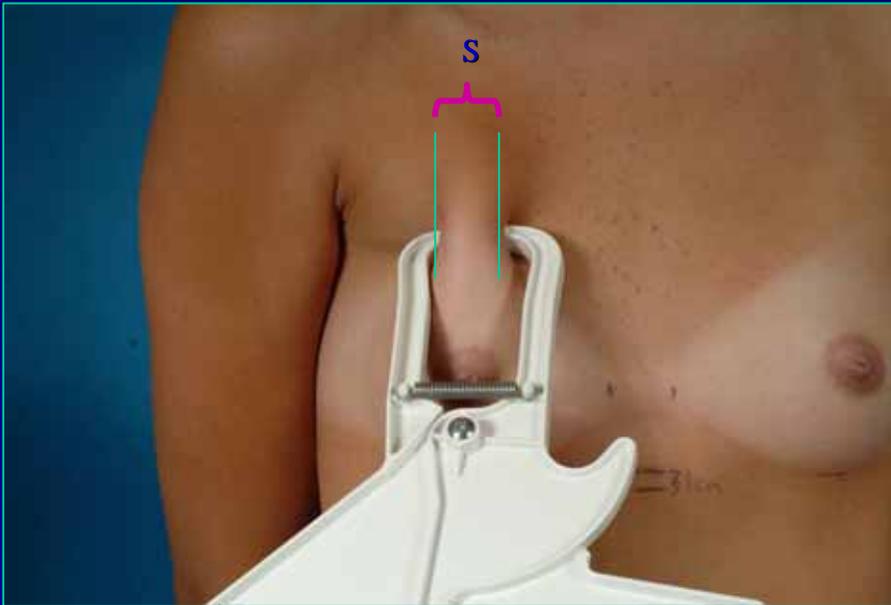
Breast Implant Selection

Implant Design Variables



Breast Implant Selection

Principles



- *Skin fold calipers*
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Breast Implant Selection

Principles

2. Base diameter:

- Measure external fold medial to lateral*

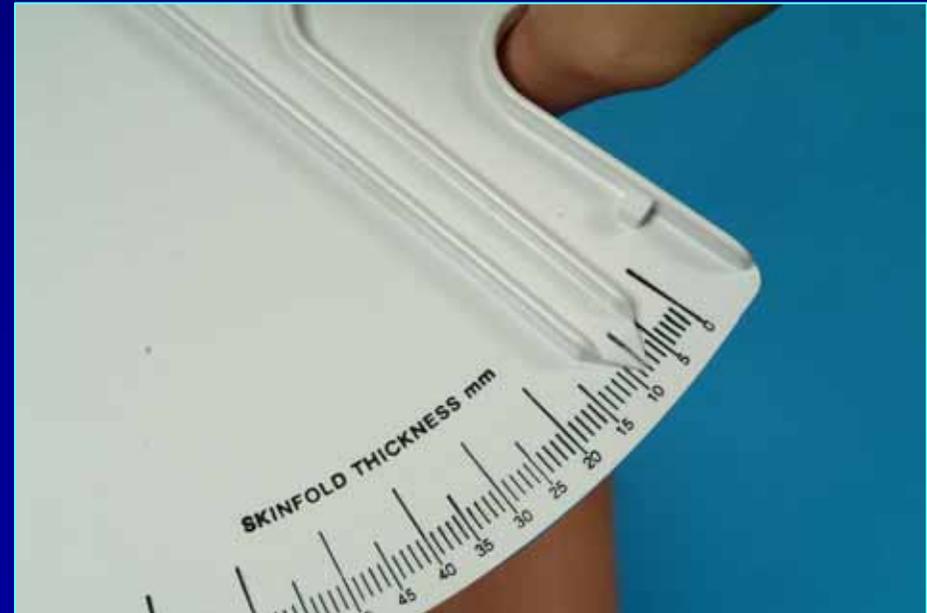


Breast Implant Selection

Principles

2. Base diameter:

- Measure medial skin fold*



Breast Implant Selection

Principles

2. Base diameter:

- Measure lateral skin fold*



Breast Implant Selection

Principles



- Graded as tight, moderate, and loose
- Generally speaking will use:
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Breast Implant Selection

Principles

6. Patient expectations :

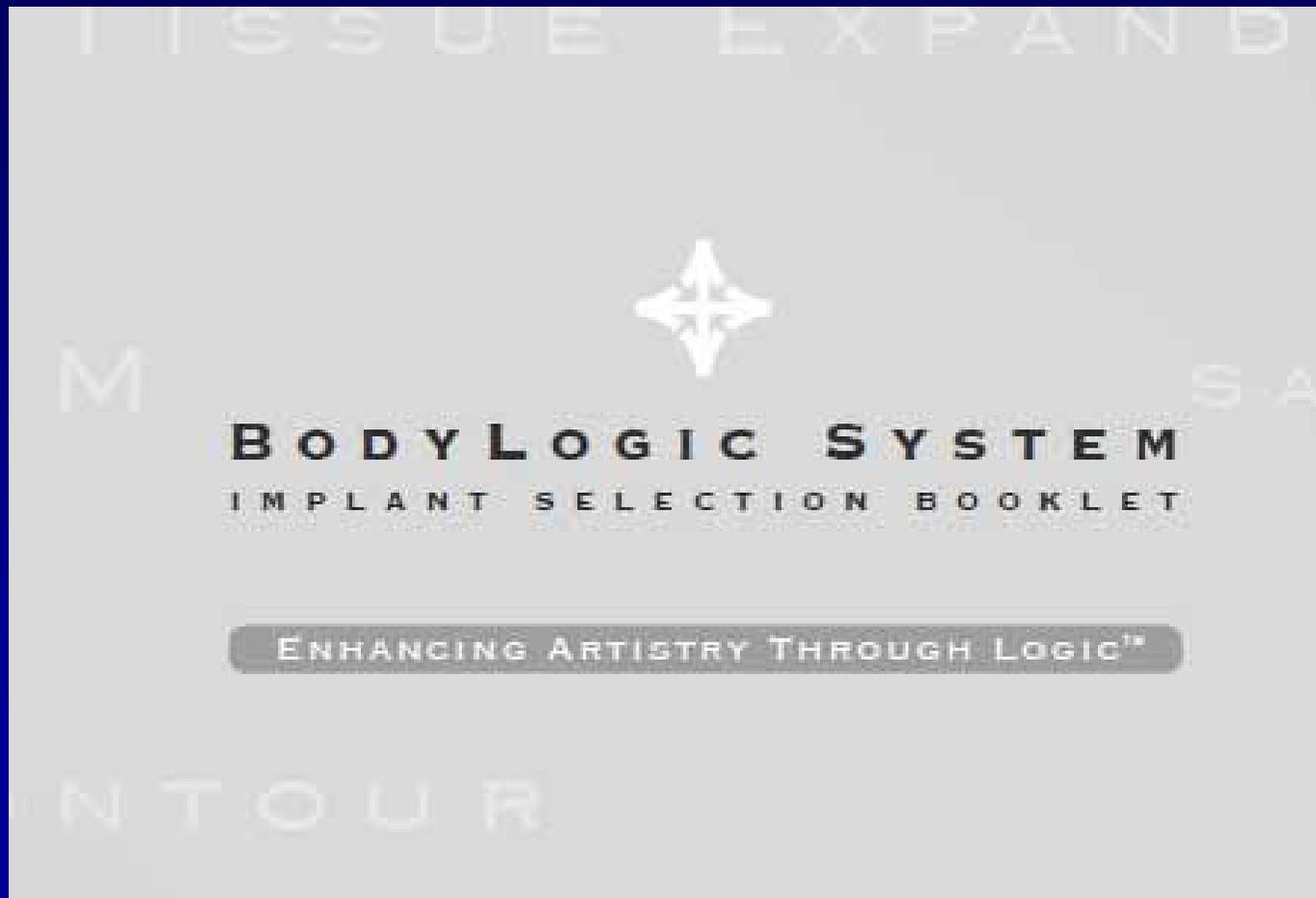
1 - Modest “natural” result

2 - Large “natural” result

3 - Large “slightly out of proportion” result

*4 - Large “significantly out of proportion”
result*

Breast Implant Selection



Breast Implant Selection

 BODYLOGIC PREOPERATIVE WORKSHEET

Patient Name: _____

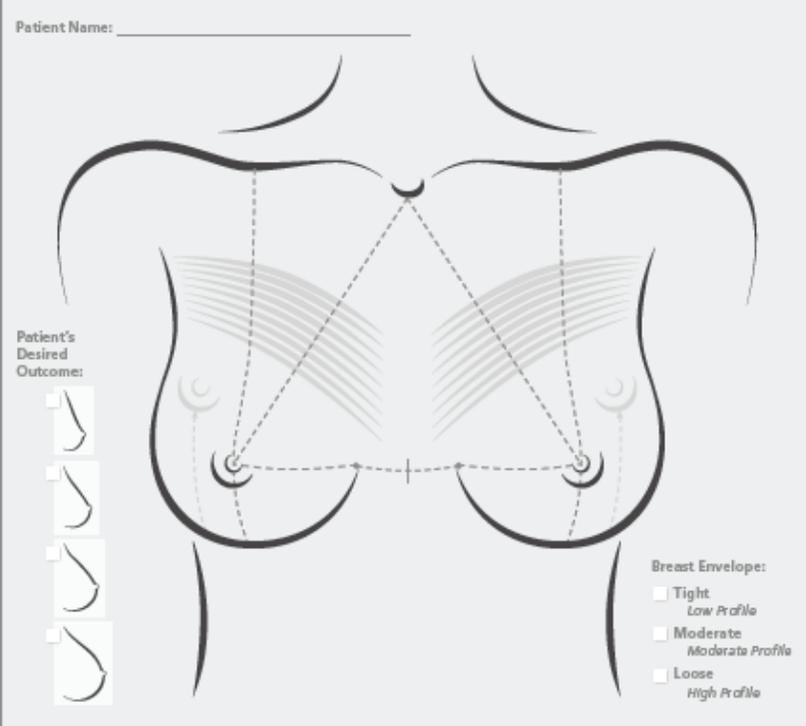
Patient's Desired Outcome:











Breast Envelope:

Tight
Low Profile

Moderate
Moderate Profile

Loose
High Profile

Patient Dimensions:

	Right	Left		Right	Left
Sternal Notch to Nipple:	_____	_____	Upper Pole Pinch:	_____	_____
Meridian to Medial Limit:	_____	_____	Areolar Diameter:	_____	_____
Breast Base Width:	_____	_____	Intermammary Distance:	_____	_____
Nipple to IMF:	_____	_____	Internipple Distance:	_____	_____
Nipple to IMF (stretched):	_____	_____	Tissue Coverage:	<input type="checkbox"/> Adequate	<input type="checkbox"/> Compromised

Breast Implant Selection

Surgery Planning:

Patient Age: _____ Weight: _____ Height: _____

Breast Masses: None Size & Location: _____

Larger Breast: Right Left Estimated Discrepancy: _____

Nipple Level Discrepancy: _____

IMF Level Discrepancy: _____

Surgery Type: Augmentation Reconstruction Revision

Surgery Date: _____ Location: _____

Incision Approach: Inframammary Periareolar Axillary

Implant Placement: Subpectoral Subglandular Other _____

Implant Selection:

Mentor Implant Type: Memory Gel Smooth Round
 Siltex® Round
 Lumera™ Contoured

	Right	Left
Catalog #	_____	_____
Profile	_____	_____
Projection	_____	_____
Nominal Volume	_____	_____
Final Volume	_____	_____

Saline Smooth Round
 Siltex® Round
 Siltex® Contoured

Spectrum Smooth Round
 Siltex® Round
 Siltex® Contoured

Becker Smooth 25
 Smooth 50
 Siltex® 25
 Siltex® 50

Tissue Expander Low Height
 Medium Height
 Tall Height

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Breast Implant Selection

ROUND MEMORYGEL
SMOOTH ROUND MEMORYGEL™

Diameter	Volume	Projection	Profile	Catalog #
8.2 cm	100 cc	2.7 cm	Moderate Plus	350-1001BC
8.3 cm	125 cc	3.5 cm	High	350-1254BC
8.8 cm	150 cc	3.7 cm	High	350-1504BC
8.9 cm	125 cc	2.8 cm	Moderate Plus	350-1251BC
9.3 cm	100 cc	2.1 cm	Moderate	350-7100BC
9.3 cm	175 cc	3.9 cm	High	350-1754BC
9.5 cm	150 cc	2.9 cm	Moderate Plus	350-1501BC
9.7 cm	200 cc	4.0 cm	High	350-2004BC
10.0 cm	125 cc	2.2 cm	Moderate	350-7125BC
10.0 cm	175 cc	3.1 cm	Moderate Plus	350-1751BC
10.1 cm	225 cc	4.2 cm	High	350-2254BC
10.3 cm	150 cc	2.3 cm	Moderate	350-7150BC
10.5 cm	200 cc	3.2 cm	Moderate Plus	350-2001BC
10.5 cm	250 cc	4.3 cm	High	350-2504BC
10.8 cm	275 cc	4.4 cm	High	350-2754BC
10.9 cm	225 cc	3.3 cm	Moderate Plus	350-2251BC
11.1 cm	300 cc	4.5 cm	High	350-3004BC
11.2 cm	175 cc	2.4 cm	Moderate	350-7175BC
11.3 cm	250 cc	3.4 cm	Moderate Plus	350-2501BC
11.4 cm	325 cc	4.6 cm	High	350-3254BC
11.7 cm	200 cc	2.5 cm	Moderate	350-7200BC
11.7 cm	275 cc	3.5 cm	Moderate Plus	350-2751BC
11.7 cm	350 cc	4.8 cm	High	350-3504BC
12.0 cm	300 cc	3.6 cm	Moderate Plus	350-3001BC
12.0 cm	375 cc	4.8 cm	High	350-3754BC
12.2 cm	225 cc	2.6 cm	Moderate	350-7225BC
12.2 cm	400 cc	5.0 cm	High	350-4004BC
12.3 cm	250 cc	2.8 cm	Moderate	350-7250BC
12.3 cm	325 cc	3.8 cm	Moderate Plus	350-3251BC
12.5 cm	350 cc	3.9 cm	Moderate Plus	350-3501BC
12.5 cm	425 cc	5.0 cm	High	350-4254BC
12.8 cm	375 cc	4.0 cm	Moderate Plus	350-3751BC
12.8 cm	450 cc	5.1 cm	High	350-4504BC
13.1 cm	400 cc	4.0 cm	Moderate Plus	350-4001BC
13.2 cm	275 cc	2.9 cm	Moderate	350-7275BC

Breast Implant Selection

ROUND MEMORYGEL

SMOOTH ROUND MEMORYGEL™

Diameter	Volume	Projection	Profile	Catalog #
8.2 cm	100 cc	2.7 cm	Moderate Plus	350-1001BC
8.3 cm	125 cc	3.5 cm	High	350-1254BC
8.8 cm	150 cc	3.7 cm	High	350-1504BC
8.9 cm	125 cc	2.8 cm	Moderate Plus	350-1251BC
9.3 cm	100 cc	2.1 cm	Moderate	350-7100BC
9.3 cm	175 cc	3.9 cm	High	350-1754BC
9.5 cm	150 cc	2.9 cm	Moderate Plus	350-1501BC
9.7 cm	200 cc	4.0 cm	High	350-2004BC
10.0 cm	125 cc	2.2 cm	Moderate	350-7125BC
10.0 cm	175 cc	3.1 cm	Moderate Plus	350-1751BC
10.1 cm	225 cc	4.2 cm	High	350-2254BC
10.3 cm	150 cc	2.3 cm	Moderate	350-7150BC
10.5 cm	200 cc	3.2 cm	Moderate Plus	350-2001BC
10.5 cm	250 cc	4.3 cm	High	350-2504BC
10.8 cm	275 cc	4.4 cm	High	350-2754BC
10.9 cm	225 cc	3.3 cm	Moderate Plus	350-2251BC
11.1 cm	300 cc	4.5 cm	High	350-3004BC
11.2 cm	175 cc	2.4 cm	Moderate	350-7175BC
11.3 cm	250 cc	3.4 cm	Moderate Plus	350-2501BC
11.4 cm	325 cc	4.6 cm	High	350-3254BC
11.7 cm	200 cc	2.5 cm	Moderate	350-7200BC
11.7 cm	275 cc	3.5 cm	Moderate Plus	350-2751BC
11.7 cm	350 cc	4.8 cm	High	350-3504BC

Breast Augmentation

Mentor Round Smooth Saline



Upper pole thickness - >2cm

Base diameter - 11 to 12 cm

Existing breast parenchyma - Moderate

Skin laxity - Loose

Inframammary fold - Maintain



Subglandular

Moderate profile

High profile

Breast Implant Selection

Mentor Round Smooth Saline - Mod Profile

<u><i>Fill Volume</i></u>	<u><i>Base Diameter</i></u>	<u><i>Projection</i></u>
<i>200-225 cc</i>	<i>11.0 cm</i>	<i>3.4 cm</i>
<i>225-250 cc</i>	<i>11.5 cm</i>	<i>3.5 cm</i>
<i>250-275 cc</i>	<i>11.9 cm</i>	<i>3.6 cm</i>

Patient expectations - Large natural result (2+)

Breast Implant Selection

Mentor Round Smooth Saline - High Profile

<u><i>Fill Volume</i></u>	<u><i>Base Diameter</i></u>	<u><i>Projection</i></u>
<i>290-350 cc</i>	<i>10.5 - 10.8 cm</i>	<i>4.7 - 5.9 cm</i>
 <i>310-375 cc</i>	<i>10.7 - 11.0 cm</i>	<i>4.8 - 6.0 cm</i>
<i>330-400 cc</i>	<i>11.0 - 11.3 cm</i>	<i>4.8 - 6.2 cm</i>
<i>380-450 cc</i>	<i>11.4 - 11.7 cm</i>	<i>5.2 - 6.4 cm</i>

Patient expectations - Large natural result (2+)

Breast Implant Selection

Technique

- *Dissect pocket to fit implant*
- *Sit patient up during procedure*
- *Assess inframammary fold carefully*
- *Use sizers as needed*
- *Fill device at least to stated lower fill volume*

Breast Implant Selection

Implant Selection

- *Basic observations*
- *Four determinations*
- *One question*
- *Appropriate implant selection*
- *Rare re-operation for size change*

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