Implant- Secured Dentures using Locator® Abutments
Learning Objectives

At the end of this training session you should be able to:

- Explain the benefits that implant-secured dentures using Locator® can bring to patients
- Determine the appropriate Locator abutment height
- Demonstrate how to incorporate Locator into a new denture
- Demonstrate how to incorporate Locator into an existing denture
- Explain the process of relining a denture with Locator

LOCATOR® IS A REGISTERED TRADEMARK OF ZEST ANCHORS, INC. ALL RIGHTS RESERVED
What is Locator®?

Denture Cap - placed in the denture

Locator Abutment - placed in the implant
What is Locator®?

Like the snap on a pair of jeans, the denture caps in the denture “self-locate” the Locator® abutments. The denture is removable.
What is Locator®?

The denture “snaps” into the patient’s mouth and is now implant retained without the need for adhesives or clips.
Why Locator®?

- **Patient Satisfaction**
  - Patients can now eat more variety in foods with the Locator system which can lead to an improved diet

- **User Friendly for the Patient**
  - The self-locating design of the Locator system is designed to allow patients to easily seat their dentures

- **Flexibility**
  - Up to 40° divergence between two implants can be accommodated
  - Denture restorations are possible even in cases of limited space inside the denture due to small vertical dimensions
  - Retrofit Locator attachments in new or existing dentures is possible

- **Simple to Restore**
  - Dental professionals of all ability levels, including recent graduates, can learn to restore implant-secured dentures using Locator

- **Practice Builder**
  - Dental professionals can use Locator as a tool to promote value-added services to their patients
Locator® Retention

Tissue-supported

Implant-retained
Two procedures to make an implant-secured denture using Locator® Abutments

1. Locator for **NEW** dentures

2. Locator for **EXISTING** dentures
Two procedures to make an implant-secured denture using Locator® Abutments

1. Locator for **NEW** dentures
Implant-Secured Dentures using Locator® Abutments

Locator for New Dentures
Locator® for NEW Dentures

Step 1: Finger tighten Locator Abutment into implant using Locator Driver.
Locator® for NEW Dentures

**Step 2**: Torque Locator Abutment to 35 Ncm.
Locator® for NEW Dentures

Step 3: Repeat steps 1 & 2 to torque in all Locator Abutments in all implants.
Locator® for NEW Dentures

Step 4: Place impression copings on Locator Abutments.
Locator® for NEW Dentures

Step 5: Take impression, border mold, and send to lab.

Impression copings will remain in the impression.
Locator® for NEW Dentures

Step 6: Lab places analogs into impression.
Locator® for NEW Dentures

Locator Processing Package

2 Denture Caps, 2 block-out spacers, 2 clear, pink and blue retention rings.
Locator® for NEW Dentures

Step 7: Lab pours master cast and places Denture Caps over analogs.
Locator® for NEW Dentures

Denture Caps retrofitted and cured into new denture.

**Step 8:** Lab fabricates new denture on master cast.
Locator® for NEW Dentures

Black processing inserts inside the Denture Cap.

Black processing inserts are used for fabricating the denture only and must be removed.
Locator® Core Tool can be separated into 3 parts:

- Removal Tool
- Seating Tool
- Optional Driver
Locator® Core Tool

Removal Tool

Sharp edge to “pluck-out” and remove black processing insert.
Locator® for NEW Dentures

Step 9: Lab “plucks-out” and removes black processing insert using the Removal Tool of the Locator Core Tool.

Image courtesy of Dr. Bob Vogel
Locator® for NEW Dentures

• New denture trimmed
• Black processing inserts removed
• Locator Retention Rings to be placed into Denture Caps
LOCATOR® Retention Rings

- Dual retention
- Can last up to 18 months
LOCATOR® Retention Rings

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<thead>
<tr>
<th>COLOR</th>
<th>Clear</th>
<th>Pink</th>
<th>Blue</th>
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<td>IMPLANT ANGLE DIVERGENCE</td>
<td>1° - 10°</td>
<td>1° - 10°</td>
<td>1° - 10°</td>
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<tr>
<td>RETENTION FORCE</td>
<td>5 lbs</td>
<td>3 lbs</td>
<td>1.5 lbs</td>
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Up to 20° angulation between 2 implants

Inner undercut

Outer undercut
LOCATOR® Retention Rings

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<td>IMPLET ANGLE DIVERGENCE</td>
<td>1° - 10°</td>
<td>1° - 10°</td>
<td>1° - 10°</td>
<td>11° - 20°</td>
<td>11° - 20°</td>
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<tr>
<td>RETENTION FORCE</td>
<td>5 lbs</td>
<td>3 lbs</td>
<td>1.5 lbs</td>
<td>3 – 4 lbs</td>
<td>1.5 lbs</td>
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Up to 20° angulation between 2 implants

Extended Range:
Up to 40° angulation
LOCATOR® Retention Rings

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<td>11° - 20°</td>
<td>11° - 20°</td>
</tr>
<tr>
<td>RETENTION FORCE</td>
<td>3 – 4 lbs</td>
<td>1.5 lbs</td>
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Extended Range: Up to 40° angulation
Step 10: Place Retention Ring on tip of Seating Tool
Locator® for NEW Dentures

Step 11: Push Locator Retention Ring into Denture Cap until you hear an audible “click”.

Seating Tool
NEW DENTURE with Locator® Denture Caps and Retention Rings complete and ready to be shipped to restorative office for final fitting and adjustments with patient.
LOCATOR® Abutments

- Cuff height
- Margin
LOCATOR® Abutment Heights - Straumann® Tissue Level Implants

Regular Neck & Wide Neck

(NO Narrow Neck)

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<th>Image</th>
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LOCATOR® Abutment Heights- Straumann® Bone Level Implants

Regular CrossFit™

1.0 mm  2.0 mm  3.0 mm  4.0 mm  5.0 mm  6.0 mm
LOCATOR® Abutment Heights-
Straumann® Bone Level Implants

Narrow CrossFit™

2.0 mm  3.0 mm  4.0 mm  5.0 mm  6.0 mm
Which Locator® Abutment height to choose?

Remove healing caps /healing abutments.

Highest point of tissue

Top of implant

Measure distance from top of implant to highest point of tissue for each implant.
Which Locator® Abutment height to choose?

Margin of Locator Abutments should be slightly supra-gingival to the highest point of tissue for **each** location.

- 4.0 mm abutment
- 1.0 mm abutment
- 1.0 mm abutment
- 4.0 mm abutment

Images courtesy of Dr. Bob Vogel
Optimal Implant Placement for Implant-Secured Full Dentures using Locator® Abutments

- **Maxilla**
  - 4 implants minimum recommended due to soft bone type

- **Mandible**
  - 2 – 4 implants
Optimal Implant Placement for Implant-Secured Full Dentures using Locator® Abutments

Not recommended due to possible anterior-posterior rock.

Implants placed to prevent anterior-posterior rock.
Two procedures to make an implant-secured denture using Locator® Abutments

1. Locator for NEW dentures

2. Locator for EXISTING dentures
Two procedures to make an implant-secured denture using Locator® Abutments

2. Locator for **EXISTING** dentures
Implant-Secured Dentures
using
Locator® Abutments

Locator for Existing Dentures
Locator® Retrofit to EXISTING Dentures

- Accurate
  - If necessary, reline the existing denture first to make the best fit possible, then retrofit the Locator abutments into the denture

- Lab-less Procedure
  - Fewer appointments for the patient
  - Restorative control for the restorative doctor
Locator® Retrofit to EXISTING Dentures

Step 1: Torque Locator Abutments to 35 Ncm.
Locator® Retrofit to EXISTING Dentures

Step 2: Place blockout spacers over Locator Abutments to prevent lockdown of excess acrylic that may overflow into undercuts during pick-up.

Blockout spacer

Rubber dams will also suffice.
Locator® Retrofit to EXISTING Dentures

Step 3: Place all denture caps over Locator abutments.
Locator® Retrofit to EXISTING Dentures

Step 4: Using a marking material, identify location in denture where Denture Caps will be retrofitted. Create a concave recess in the denture with a bur at each location where a Denture Cap will be retrofitted.

When creating the concave recesses, continue to use the marking material to verify passive fit of denture on tissue with no contact to denture caps.
Locator® Retrofit to EXISTING Dentures

Create small vent holes in denture to extrude excess acrylic (optional).
Locator® Retrofit to EXISTING Dentures

**Step 5**: Apply small amount of acrylic on top of denture cap and recess of denture.

**Step 6**: Seat denture in oral cavity and instruct patient to maintain a passive, light, centric occlusion until acrylic fully cures.

**Step 7**: Remove denture.

It is recommended to pick up one Denture Cap at a time.
Step 8: Remove excess acrylic with bur and fill voids with additional acrylic where needed.
Step 9: “Pluck” out black processing inserts using the Removal Tool of the Locator Core Tool.
Locator® Retrofit to EXISTING Dentures

Step 10: Place Retention Ring on tip of Seating Tool.
Locator® Retrofit to EXISTING Dentures

Step 11:
Place Retention Rings in Denture Caps using Seating Tool.

Images courtesy of Dr. Bob Vogel
Locator® Retrofit to EXISTING Dentures

Images courtesy of Dr. Bob Vogel
Clinical “Trick” for NEW Locator® Dentures

Place tall healing caps/abutments at time of final impression.

Lab fabricates new denture with concave recesses for a chairside retrofit of Denture Caps
Summary:

Two procedures to make an implant-secured denture using Locator® Abutments

1. Locator for NEW dentures

2. Locator for EXISTING dentures
Reline a Locator® Denture

- The alveolar ridge of an edentulous patient may resorb

- A Locator denture may need to be relined as a result of bone resorption

- Locator denture reline process similar to conventional denture reline
Reline a Locator® Denture

Two Procedures:

1. Reline a Locator Denture- Keep Existing Denture Caps.ppt

2. Reline a Locator Denture- Replace Denture Caps.ppt
Summary:
Reline a Locator® Denture

Why Reline a Locator Denture?
- The alveolar ridge of an edentulous patient may resorb
- A Locator denture may need to be relined as a result of bone resorption
- Locator denture reline process similar to conventional denture reline

Two Locator Reline Procedures:
1. Reline Locator denture- keep existing Denture Caps
2. Reline Locator denture- replace Denture Caps
Locator® Cases

- Locator Case- Dr. Best- Full Denture.ppt
- Locator Case- Dr. Myers- Partial.ppt
"I said YES to dental implants...
I hated my old dentures. They hurt, and more than once embarrassed me by coming loose. I love my new implant-supported dentures. I feel better, look better, and am 100% more confident in everything I do. The procedure was simple and there was very little discomfort.”

**BENEFITS OF IMPLANT-SUPPORTED DENTURES**
- Help preserve the bone
- Help maintain the integrity of the facial structures
- Increase stability
- Eliminate the need for adhesives
- Help reduce pain from ill-fitting dentures
- Help to improve your eating habits – eating right can improve overall health
- Restore chewing ability – eat what you like
- Can improve speech
- Can improve self-confidence

**THERE ARE 3 KINDS OF IMPLANT-SUPPORTED DENTURES:**

**IMPLANT-RETAINED DENTURES**
Locks into place, but can unlock for removal

**IMPLANT BAR SUPPORTED DENTURES**
Snaps securely onto a bar or other device

**FIXED CROWN AND BRIDGE**
Permanently screwed into place

**TRADITIONAL DENTURES CAN’T PREVENT BONE LOSS**

Missing all of your upper or lower teeth can cause severe problems that even regular dentures can’t remedy.

Implant-supported dentures are the only treatment that helps to prevent bone loss, helps to preserve your appearance, and gives you strong and stable protection against the slipping and chattering of traditional dentures.
Locator® Hands-on

- Locator for New Dentures Step-by-Step Hands-On.ppt
- Locator for Chairside Retrofit Step-by-Step Hands-On.ppt
Thank You

- Evaluations