

ARANZ Medical

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# Hands on Training for Clinical Practice

SilhouetteStar + SilhouetteCentral





# aranzmedical

helping people heal people

# Topics

Silhouette™ Product Suite

Silhouette Key Concepts and Aspects

Using SilhouetteCentral

Performing an Assessment

Using SilhouetteConnect

Noteworthy Topics

Care and Warnings

Troubleshooting

Support

# Silhouette™ Product Suite

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# Silhouette Product Suite

## SilhouetteCentral

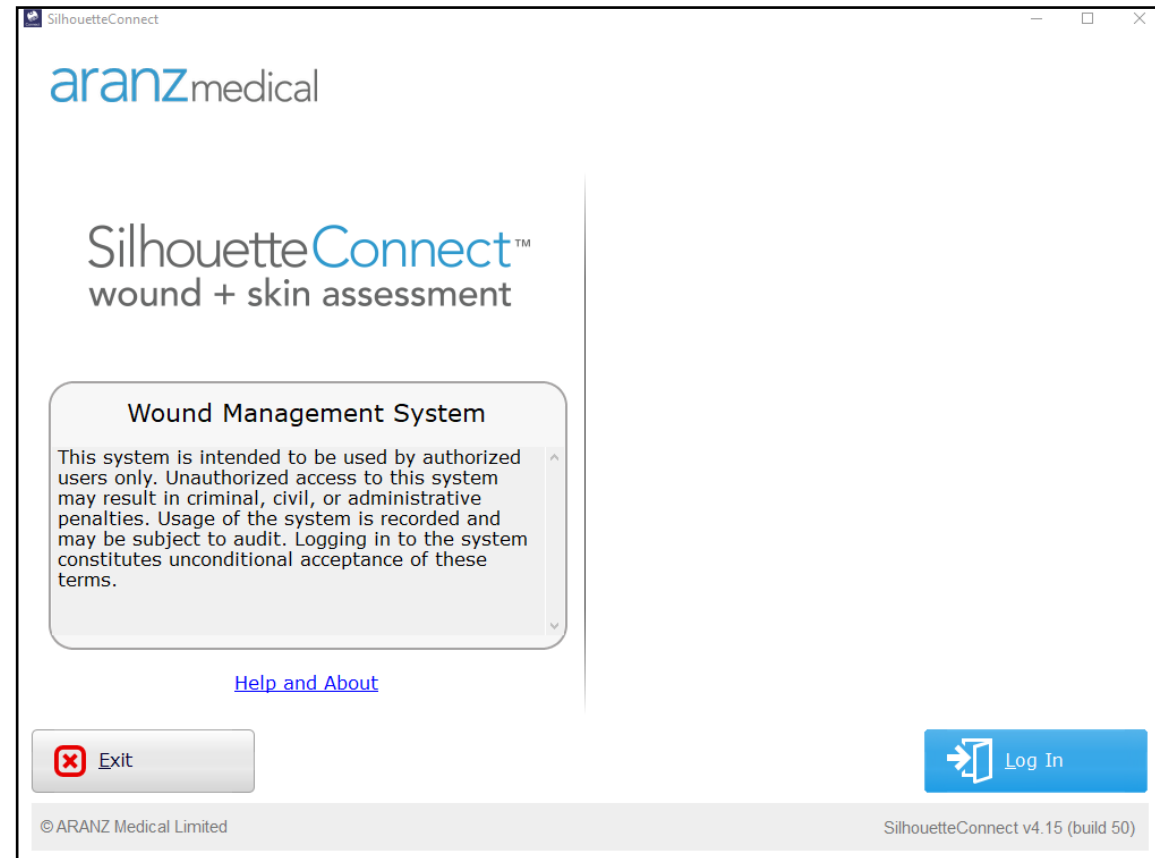
- Central storage location
  - For all collected data (images, measurements, reports, etc.)
  - From all users, sites, etc.
- Enables review by personnel from remote location.

The screenshot displays the SilhouetteCentral interface for a patient named Timmy Testerman. The top navigation bar includes the Silhouette logo, patient information (ID: 123123, DOB: 08-05-1989), and buttons for '+ Add Assessment' and 'Actions'. A left sidebar contains a menu with 'Overview' (selected), 'Details', 'Medical History', 'Medication', 'Clinician Notes', and 'Progress Notes'. Below the menu, a 'Wounds' section lists 'A: Left Clavicular region' and 'B: Scalp, Superior'. The main content area features a 'Patient' tab and a 'Wounds' panel with a human silhouette diagram. The diagram has two points: 'A' on the left clavicle and 'B' on the scalp. A 'Patient Timeline' at the bottom shows a 'Wound Assessment for Wound A (Left Clavicular region)' from 15 days ago, signed by ARANZ Support. The assessment details show 'Wound Images' as 'No images to display' and 'Comments' as 'no no no good'.

# Silhouette Product Suite

## SilhouetteConnect

- Is an application installed on a PC
- Used for data capture using SilhouetteStar in wired mode
- Downloads patients from SilhouetteCentral
- Can be used in an off-line mode



# Silhouette Product Suite

## SilhouetteStar

- 3D measurement
- Single Button
- USB connected
- Star imaging guidance

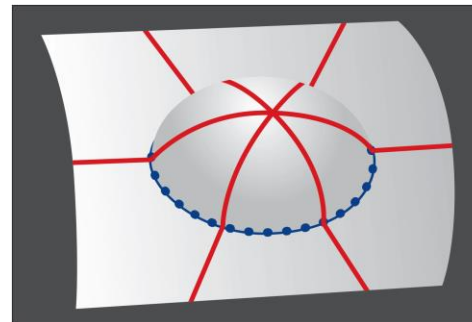
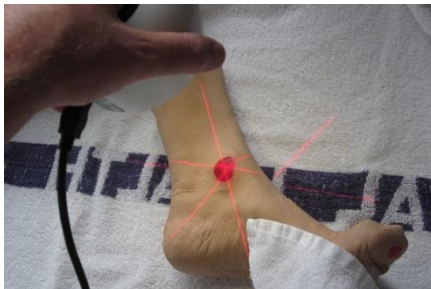


# Silhouette™ Key Concepts and Aspects

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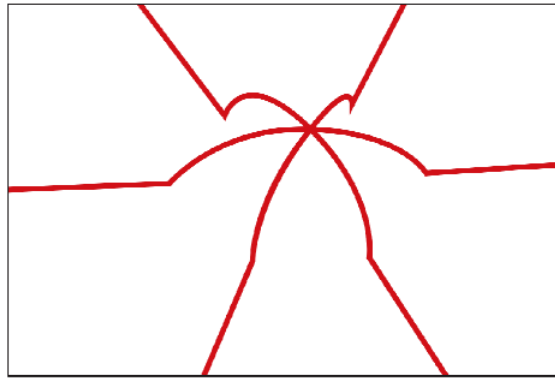
# How Does Silhouette Make Measurements

- When the image capture button is pressed SilhouetteStar captures a series of images with and without laser lines
- From these it creates a 3D mathematical model of the wound
- From this model, and together with the user-drawn outline, the wound dimensions are determined

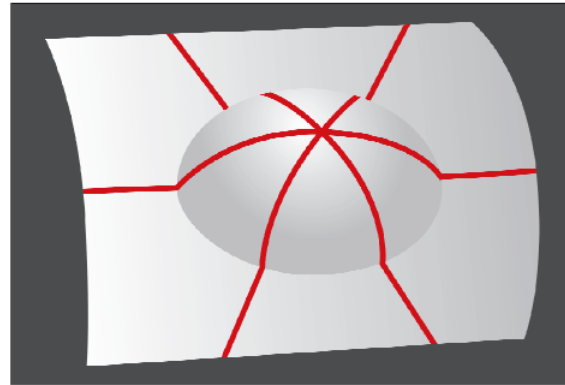


Area  
Perimeter  
Maximum depth  
Mean depth  
Volume

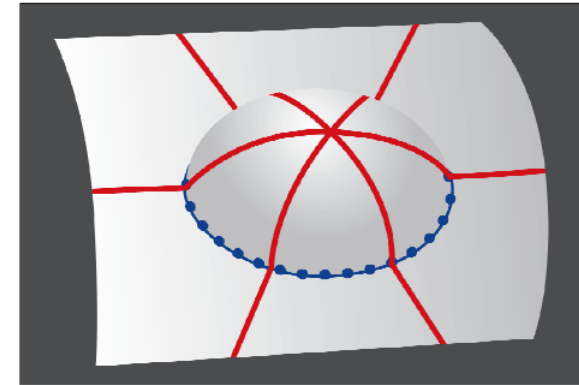
## Wound Model Creation – Convex Surface



(a)



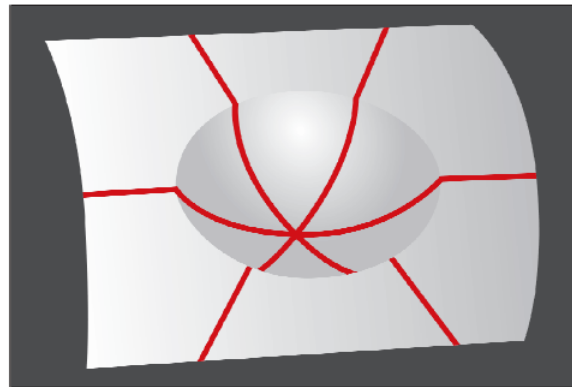
(b)



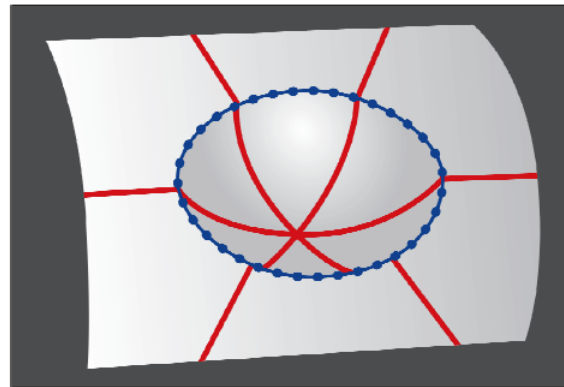
(c)

- a) the laser lines in three dimensional space
- b) a surface is stretched over the three laser lines
- c) the user drawn outline (blue dotted line) is added to the wound model

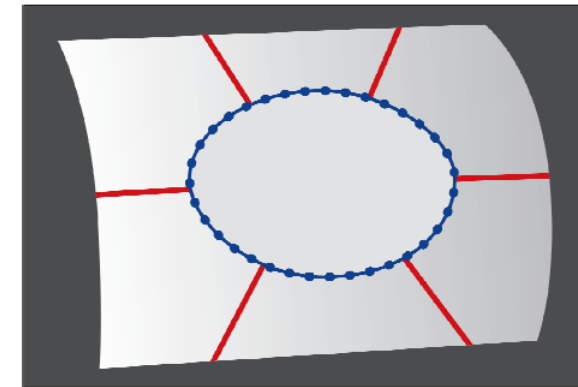
## Wound Model Creation – Concave Surface



(a)



(b)



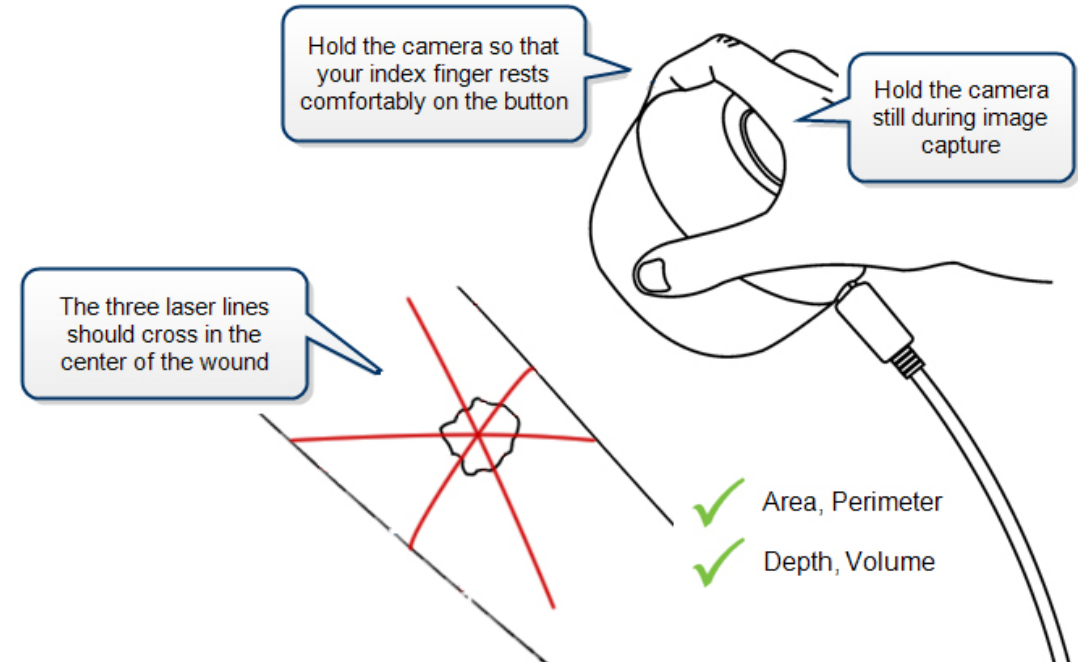
(c)

- a) a surface is stretched over the three laser lines
- b) the user-drawn outline (blue dotted line) is added to the wound model
- c) a cap is stretched across the user-drawn outline, over the concavity

# Performing an Assessment

## Capturing Images

- Ensure SilhouetteStar is connected
- Select the 'Images' button 
- Press the button once to turn the lasers on Hold SilhouetteStar directly over the wound
- Line up the 3 laser lines so they form a \* shape
- The laser lines should cross in approximately the center of the wound
- One of the laser lines should cross the deepest part of the wound
- Hold SilhouetteStar still during image capture

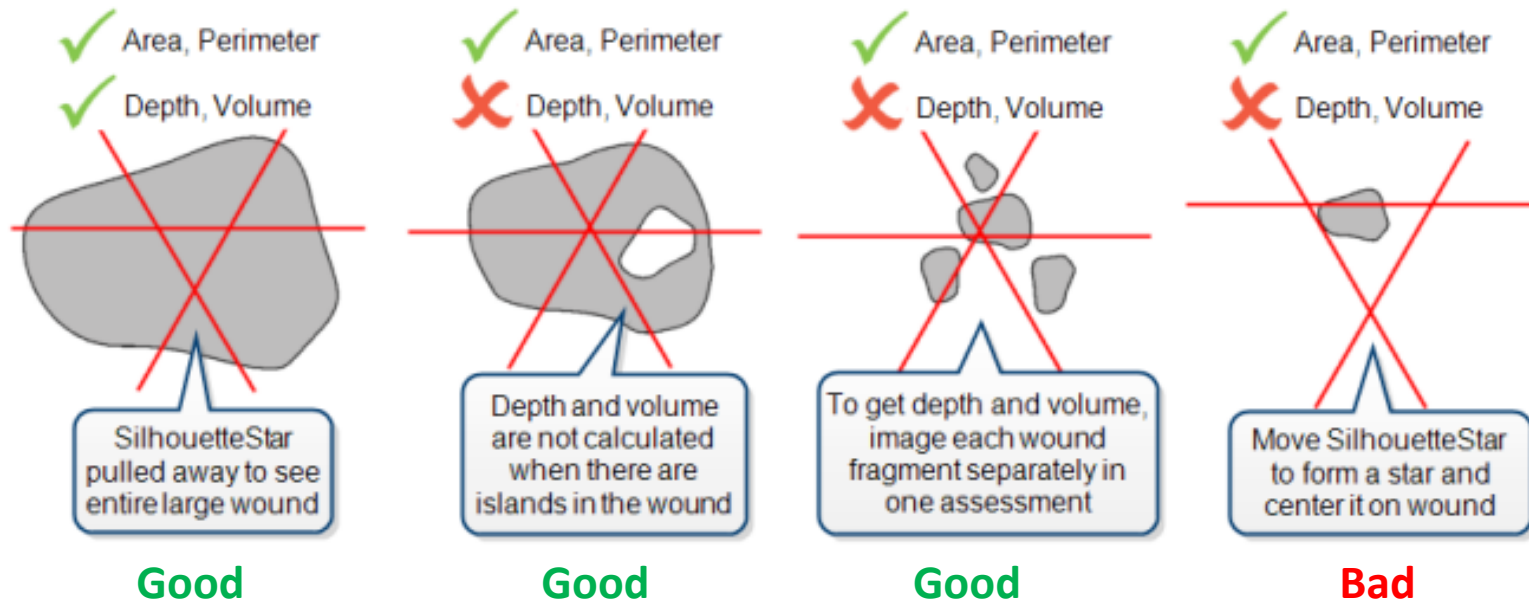


Tip: Always orient SilhouetteStar's capture button to the patient's head. This is important for image review purposes.

# Performing an Assessment

## Star imaging guidance

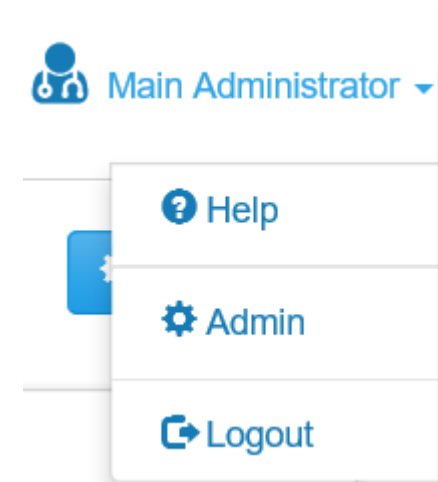
- The laser lines do not need to cross in a perfect star shape, but the star point needs to be inside the wound for depth and volume to be calculated
- An outline within an outline is called an island – depth and volume will not be calculated for a wound outline containing an island



# Using SilhouetteCentral

## User Interface Concepts

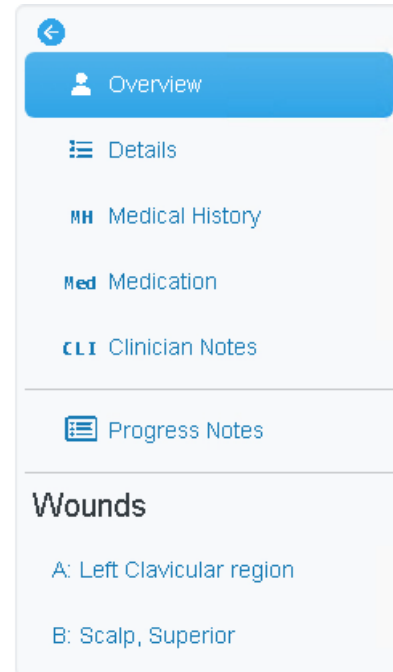
- Light Blue rectangle buttons:
  - Edits, Create, Save Data.
  - Options displayed are dependent on the page being viewed and assigned permissions.
- Light Blue text: move forward within category or wound
  - Examine details about a wound
  - Review an assessment in detail
- Application Menu (top right):
  - Help menu
  - Admin Functions
  - Log out



# Using SilhouetteCentral

## User Interface Concepts

- The Sidebar
  - Contains a summary of the selected patient with the ability to select/create features.



- Back to Patient Selection
  - Select the logo in any screen to return to the main patient tiles list.



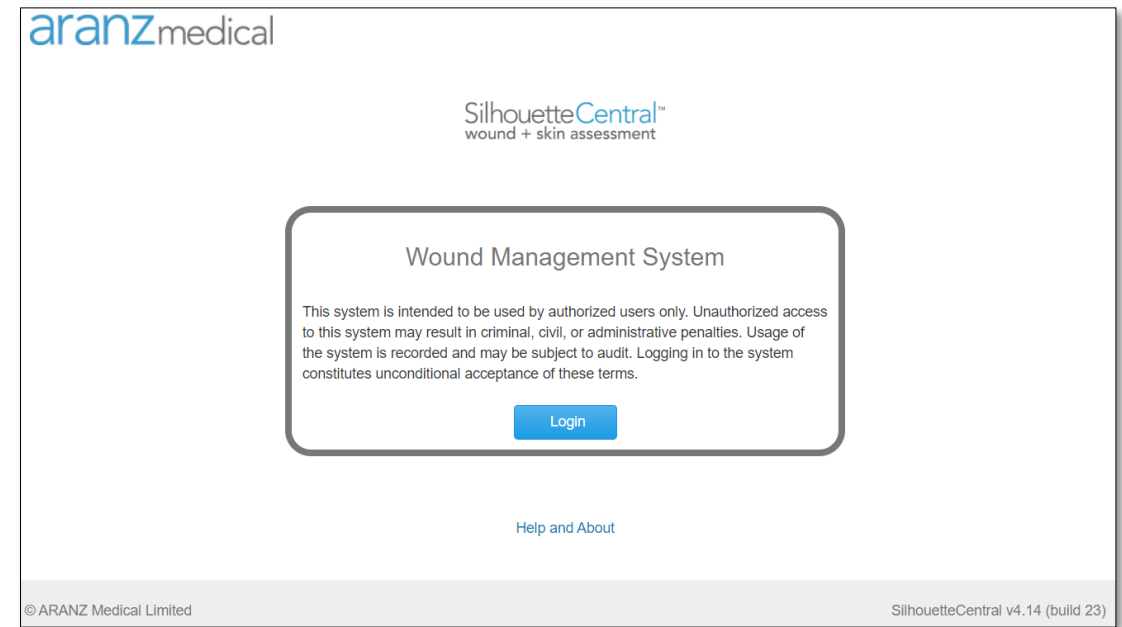
# SilhouetteCentral

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# Using SilhouetteCentral

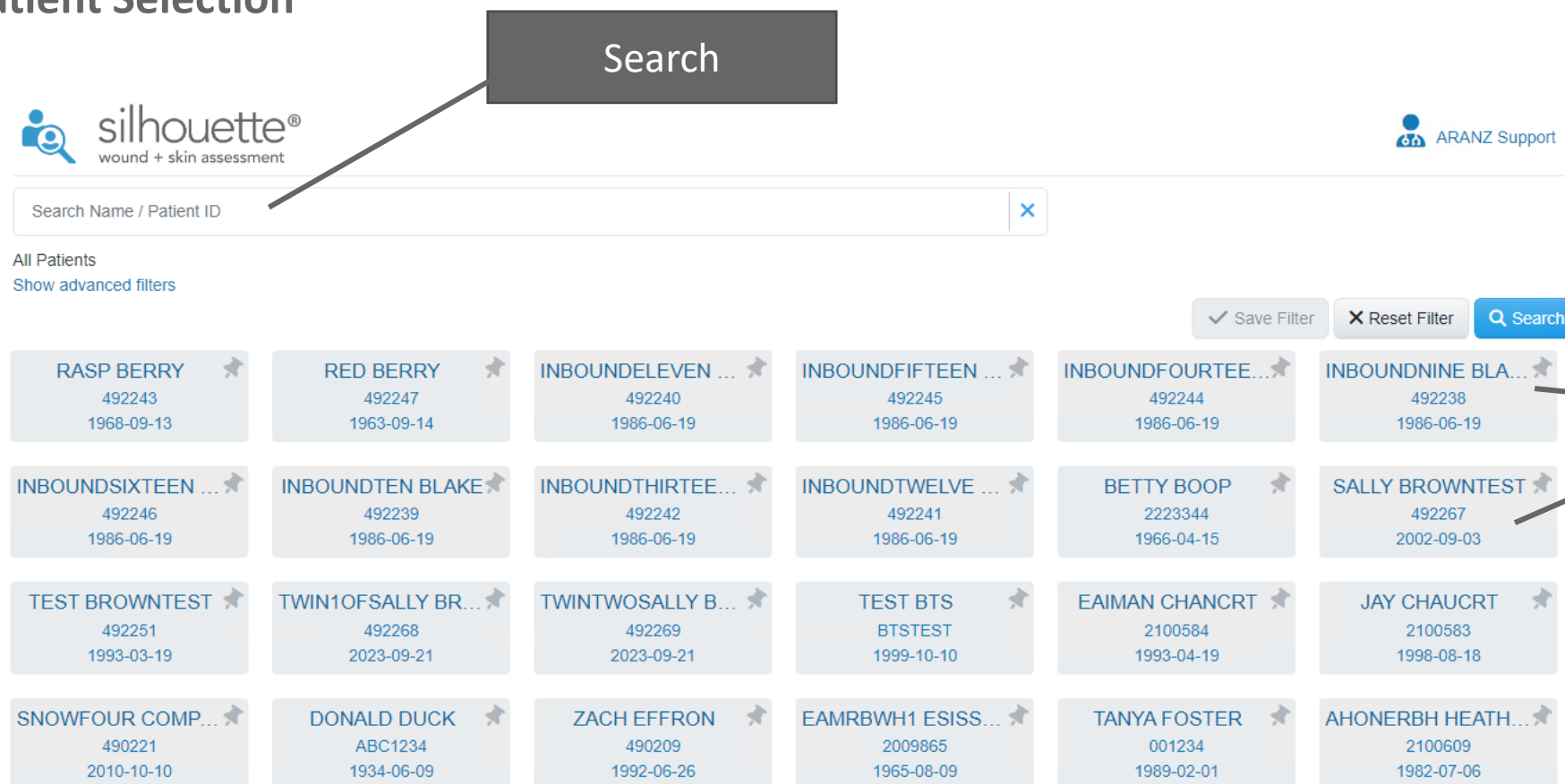
## Starting SilhouetteCentral

- Log into SilhouetteCentral
  - *If using a shared PC do not save credentials*
- Select patient by choosing the tile
  - *It is possible to search for an existing patient to narrow down the list*
  - *Select 'Load More' to see more patients if needed*
- Connect SilhouetteStar
- Take Wound Images
- Create an Assessment
- Trace Wound
- Save and Exit



# Using SilhouetteCentral

## Patient Selection



**Search**

silhouette®  
wound + skin assessment

ARANZ Support

Search Name / Patient ID

All Patients  
Show advanced filters

✓ Save Filter   ✕ Reset Filter   🔍 Search

|                                            |                                            |                                           |                                            |                                           |                                            |
|--------------------------------------------|--------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------|--------------------------------------------|
| RASP BERRY<br>492243<br>1968-09-13         | RED BERRY<br>492247<br>1963-09-14          | INBOUNDELEVEN ...<br>492240<br>1986-06-19 | INBOUNDFIFTEEN ...<br>492245<br>1986-06-19 | INBOUNDFOURTEE...<br>492244<br>1986-06-19 | INBOUNDNINE BLA...<br>492238<br>1986-06-19 |
| INBOUNDSIXTEEN ...<br>492246<br>1986-06-19 | INBOUNDTEN BLAKE<br>492239<br>1986-06-19   | INBOUNDTHIRTEE...<br>492242<br>1986-06-19 | INBOUNDTWELVE ...<br>492241<br>1986-06-19  | BETTY BOOP<br>2223344<br>1966-04-15       | SALLY BROWNTTEST<br>492267<br>2002-09-03   |
| TEST BROWNTTEST<br>492251<br>1993-03-19    | TWIN1OFSALLY BR...<br>492268<br>2023-09-21 | TWINTWOSALLY B...<br>492269<br>2023-09-21 | TEST BTS<br>BTSTEST<br>1999-10-10          | EAIMAN CHANCRT<br>2100584<br>1993-04-19   | JAY CHAUCRT<br>2100583<br>1998-08-18       |
| SNOWFOUR COMP...<br>490221<br>2010-10-10   | DONALD DUCK<br>ABC1234<br>1934-06-09       | ZACH EFFRON<br>490209<br>1992-06-26       | EAMRBWH1 ESISS...<br>2009865<br>1965-08-09 | TANYA FOSTER<br>001234<br>1989-02-01      | AHONERBH HEATH...<br>2100609<br>1982-07-06 |

**Select an existing patient**

# Using SilhouetteCentral

## Review Patient: Patient Dashboard

### Displays:

- Patient's overview and details
- Patient's wounds and location on body
- Number of assessments
- Investigation History
- Medical History
- Medications

### Create:

- Wound, if a new wound. Or select an existing wound.
- Update imaging consent, investigation history, medical history and medications

The screenshot displays the SilhouetteCentral interface for a patient named Timmy Testerman. The top header includes the Silhouette logo and the text 'wound + skin assessment'. The patient's name, ID (123123), and date of birth (08-05-1989, 34 years old) are shown. A navigation sidebar on the left lists 'Overview' (selected), 'Details', 'Medical History', 'Medication', 'Clinician Notes', and 'Progress Notes'. Below this is a 'Wounds' section with two entries: 'A: Left Clavicular region' and 'B: Scalp, Superior'. The main content area features a 'Patient' tab and a 'Wounds' section with a '+ Wound' button and a body diagram showing the locations of wounds A and B. At the bottom, a 'Patient Timeline' shows a 'Wound Assessment for Wound A (Left Clavicular region)' from 15 days ago, signed by ARANZ Support, Dr (16-02-2024 09:10). The timeline entry includes sections for 'Wound Images' (No images to display) and 'Comments' (no no no good).

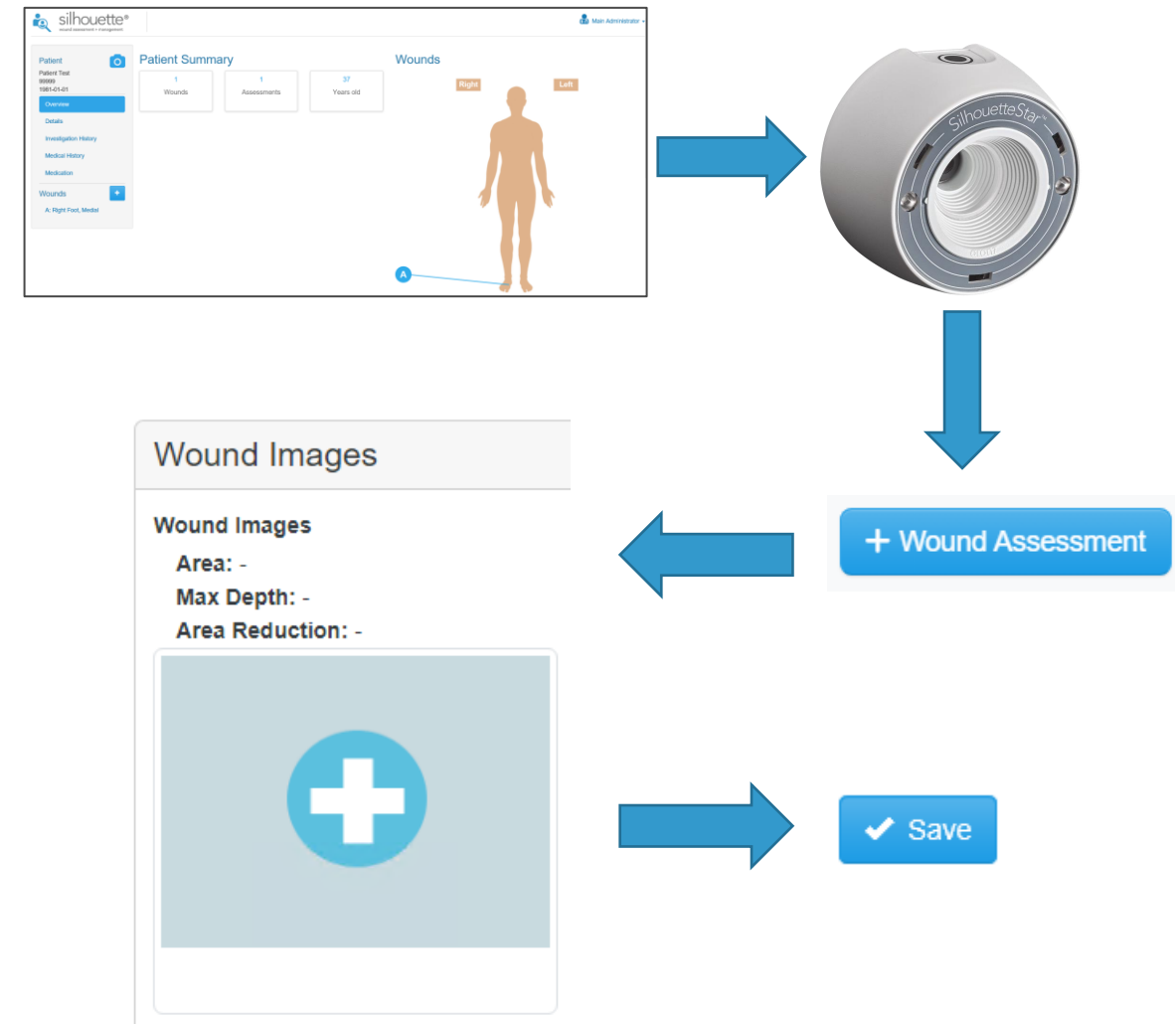
# Performing an Assessment

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# Wound Assessment Workflow

## Wound Assessment Steps

- Log into SilhouetteCentral
  - *If using a shared PC do not save credentials*
- Select a patient by choosing the tile
  - *It is possible to search for an existing patient to narrow down the list*
  - *Select 'Load More' to see more patients if needed*
- Review patient using the Patient Dashboard
  - Review patient details (graphs, etc.)
- Data collection
  - Capture image(s)
  - Assign image to wound(s)
  - Trace image(s)
- Add notes (if desired) and Save the assessment
- Log off SilhouetteCentral



# Wound Assessment Workflow

## Capturing Wound Images

### Using the SilhouetteStar to capture images

Images can be captured whenever the SilhouetteStar device is connected and there is a patient selected.

#### To capture images:

1. Press the button on the SilhouetteStar to turn the lasers on.
2. Form a star with the lasers inside the wound, making sure one laser is crossing the deepest part of the wound.
3. Press the button on the SilhouetteStar to take the image, holding the device as still as possible for approx. 2 seconds. The SilhouetteStar 1 initiates the image capture when the button is pressed.
4. The lasers turn off after a timeout. If the lasers turn off and there are still more images to be captured, then press the button to turn them on again.

**\*\*Captured images are uploaded to the selected patient's portfolio and can be used when creating assessments.**

**\*\*Images stay in the portfolio until they are used in an assessment or until they are deleted by the user.**

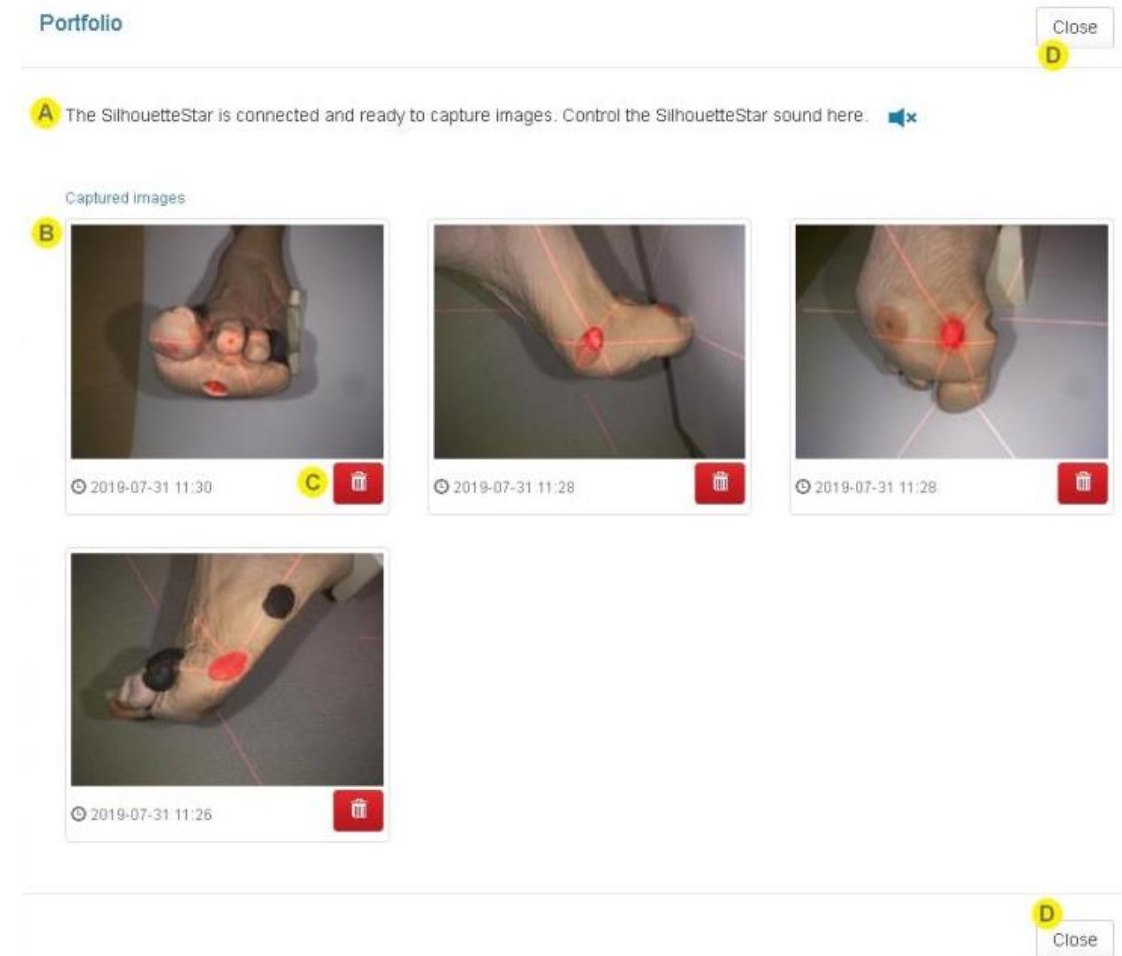
# Wound Assessment Workflow

## Capturing Wound Images

### Portfolio - Image Review Mode – Part A

When you have opened the image portfolio by selecting the camera icon from the patient sidebar it is in image review mode (as opposed to being in image assignment mode)

- A. The status of the connected SilhouetteStar is displayed at the top of the portfolio with any sound mute controls available. The messages you might see here are:
- Connect the SilhouetteStar using the supplied USB cable to take images.
    - This message is shown in SilhouetteConnect when there is no USB connected SilhouetteStar
  - The SilhouetteStar is connected and ready to take images. Control the SilhouetteStar sound here.
    - This message is shown in SilhouetteCentral or SilhouetteConnect when any SilhouetteStar is connected. Select the speaker icon to mute or unmute the device sound.



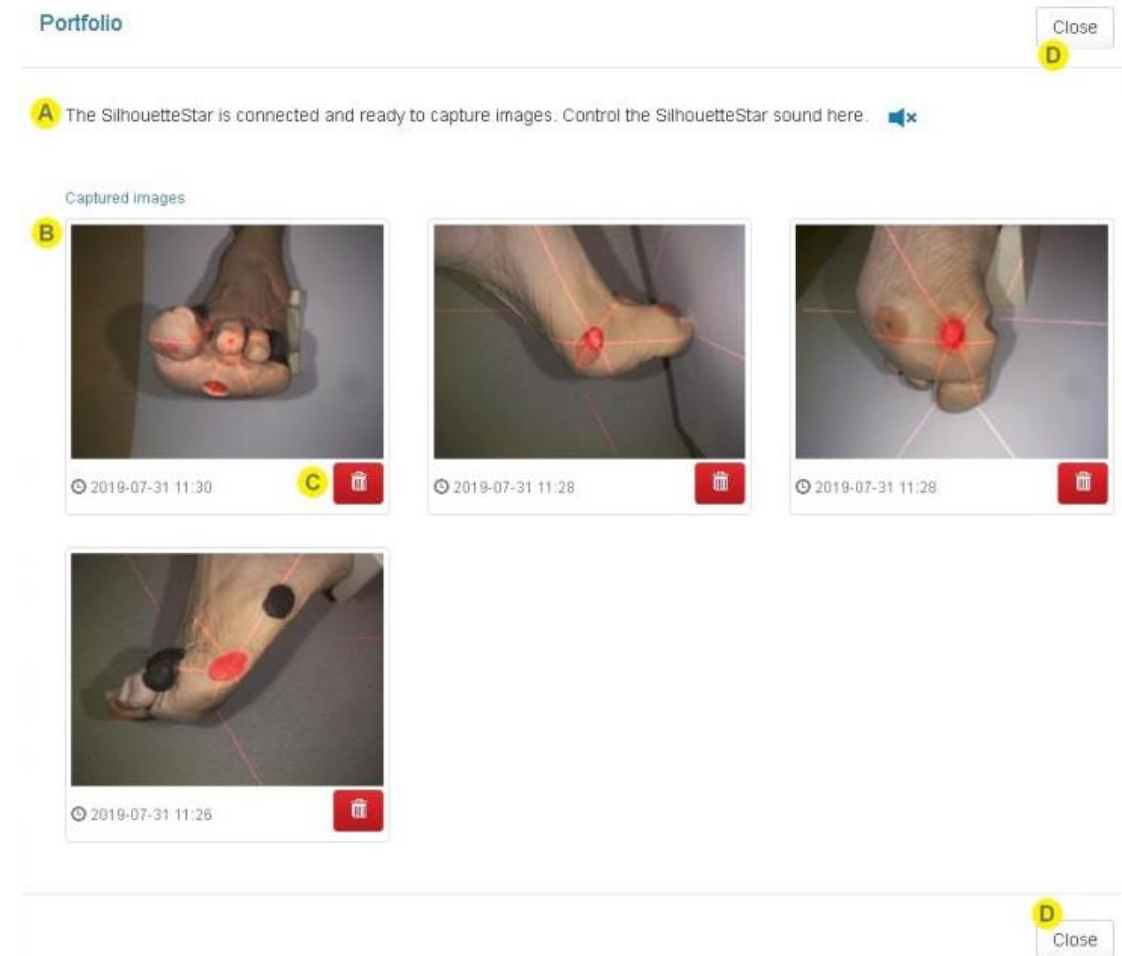
# Wound Assessment Workflow

## Capturing Wound Images

### Portfolio - Image Review Mode – Part B

When you have opened the image portfolio by selecting the camera icon from the patient sidebar it is in image review mode (as opposed to being in image assignment mode)

- B. The available images are shown with the time they were captured. Select an image to view it in larger image viewer (see the Viewing Images topic) and review the laser detections.
- C. A delete button is provided for each image to give you the option of removing images you do not wish to keep. It is good practice to take a couple of images, review which to keep and which to discard. Selecting the Trash Can button turns the button into an undo button. You have about 5 seconds to use the undo button before the image is deleted.
- D. Select the Close button to close the image portfolio. Images can still be collected with a SilhouetteStar device as long as there is a patient selected. You can reopen the image portfolio to review the images at any time.



# Wound Assessment Workflow

## Capturing Wound Images

### Portfolio - Image Assignment Mode

When you have opened the image portfolio from an image capture field in an assessment it is in image assignment mode (as opposed to being in image review mode).

- A. The banner in the portfolio dialog provides information about the wound you are assigning images for.
- B. The available images are shown with the time they were captured.  
Select the images you want to assign to the wound assessment image capture field. You can select multiple images and selected images are highlighted with a blue border.
- C. A delete button is provided for each image to give you the option of removing images you do not wish to keep.  
It is good practice to take a couple of images and then review which to keep and which to discard.  
Selecting the Trash Can button turns the button into an undo button. You have about 5 seconds to use the undo button before the image is deleted.
- D. Select the OK button to confirm the selection and assign the images to the assessment.  
The image assignment is not completed until you save the assessment. If you subsequently Cancel the assessment creation or editing then the images appear back in the patient portfolio.



# Performing an Assessment

## Image Capture: Lighting Requirements

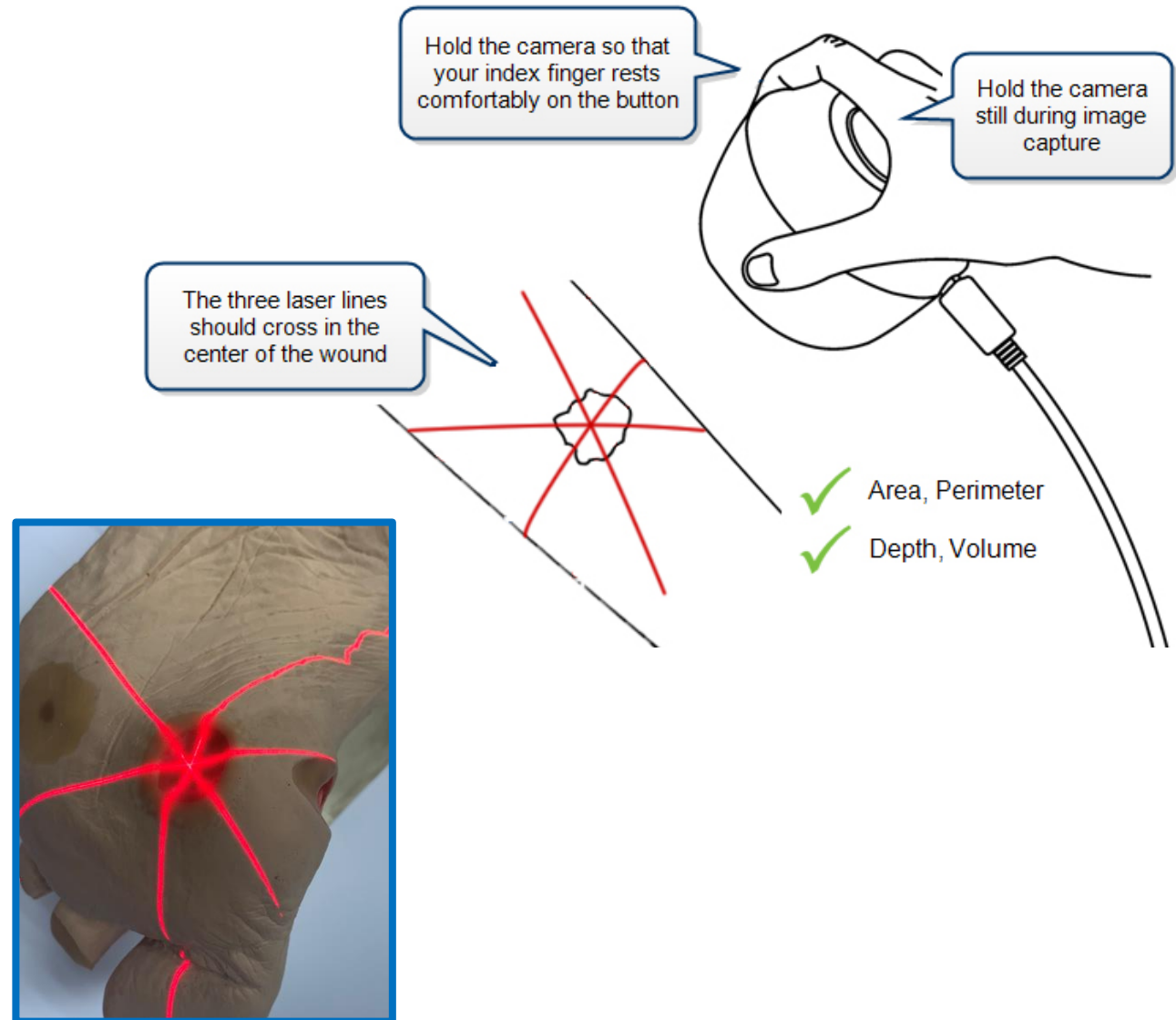
- Normal office lighting levels
- Indirect, white and bright light preferable
- Do not capture images in direct sunlight
- Do not illuminate wound directly with a lamp

## Taking Images:

- Ensure Camera is connected
- Hold SilhouetteStar directly over the wound
- Hold down shutter button and laser lines will appear
- Take image of wound ensuring all laser lines cross through the wound.
- Hold SilhouetteStar still during image capture

*Tip: Always orient SilhouetteStar's capture button to the patient's head.*

*This is important for image review purposes.*

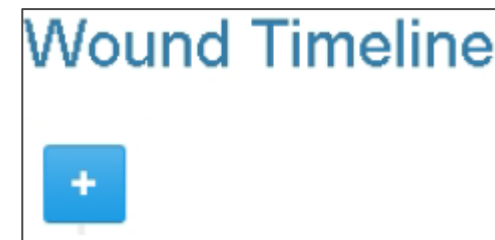


# Assigning Images

## Assigning and Tracing a Wound

Sequence:

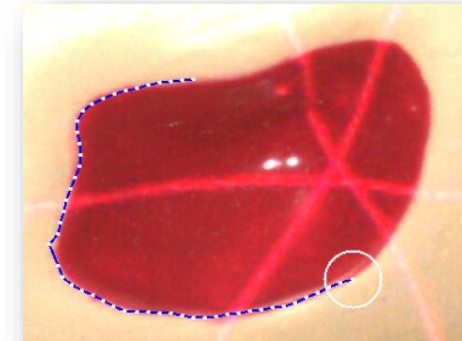
1. Capture image (s)
2. Close the image portfolio using the Close button
3. Select the wound that has been imaged by selecting the wound label on the patient sidebar.
4. Create a new assessment by clicking the + icon at the top of the wound timeline.
5. Select the image(s) to add to the assessment by clicking on them.
6. Select Close and images will now be part of the assessment
7. Select the image(s) for tracing



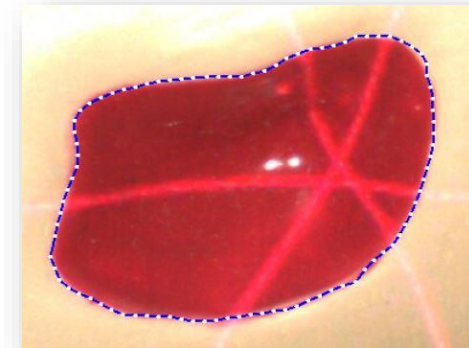
# Tracing

## Tracing the Outline

- Zoom in so that the wound fills the screen
- Move the on-screen pencil to the edge of the wound. Move the pencil without drawing by using a dragging motion.
- Select the pencil and hold it in one spot to start tracing. A white target will appear around the starting point.
- Move in a continuous motion (eg. clockwise) to create the outline. You may make a series of dots or use a click and drag motion.
- Stop before the circular target is reached
- Select the circular target to close the wound
- You will not be able to continue on in SilhouetteCentral until the boundary is closed
- You can adjust any of the points as necessary via edit functions



Open wound outline



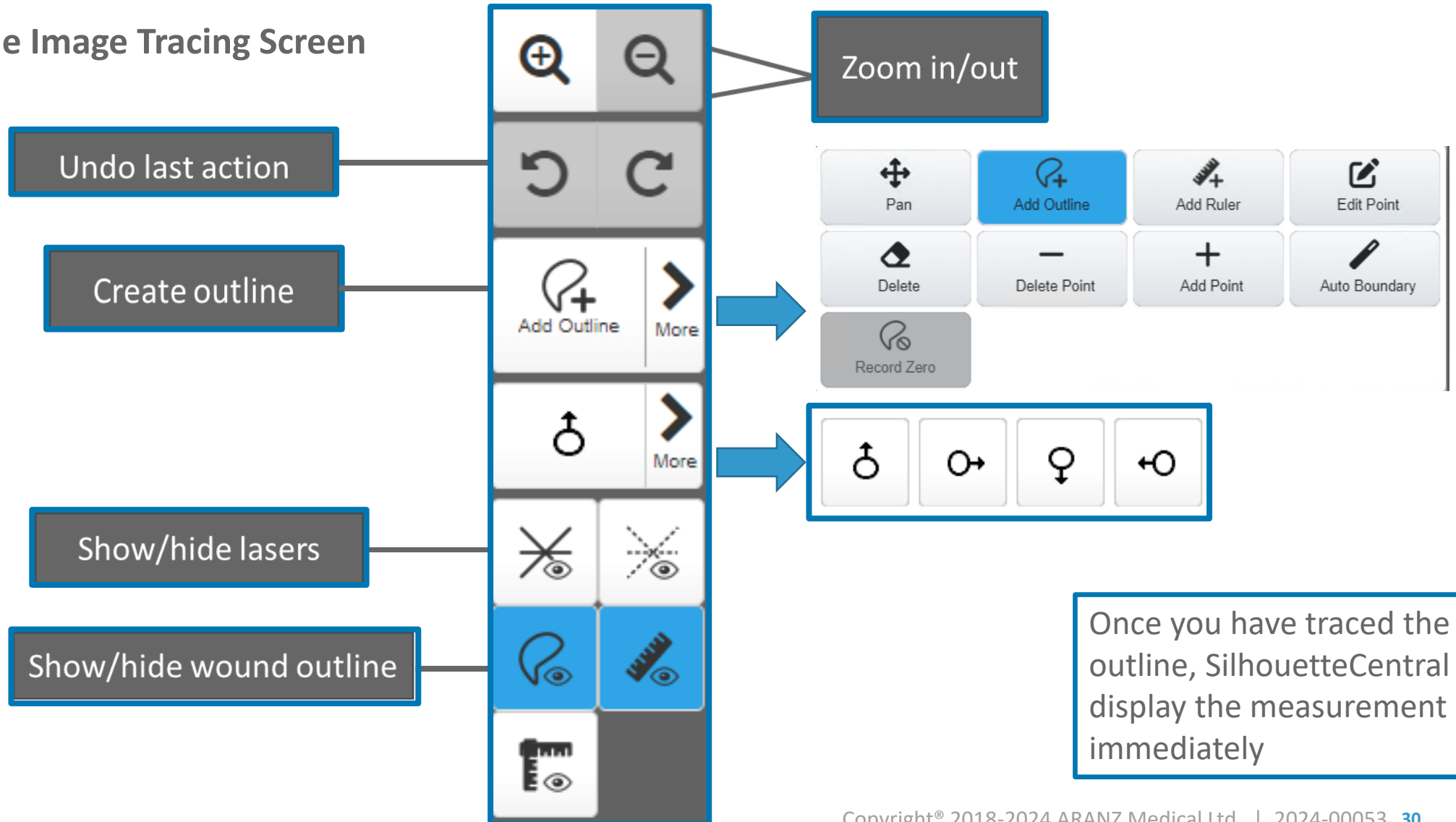
Closed wound outline



The target

# Tracing Tools

## Toolbar on the Image Tracing Screen

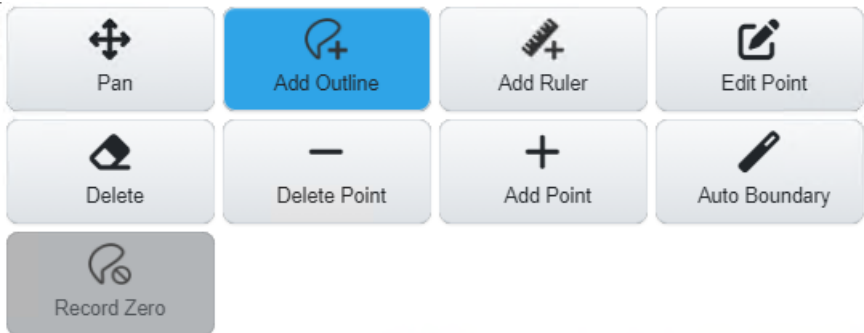


Once you have traced the outline, SilhouetteCentral will display the measurement immediately

# Tracing Tools

## Toolbar on the Image Tracing Screen

- The selected tool has a blue background.
- A tool that can be selected has a light gray background.
- A disabled tool that can not be selected has a dark gray background.
- Measurements for the image are updated as you use the tools. In some scenarios the interface might block further actions while measurements are calculated.

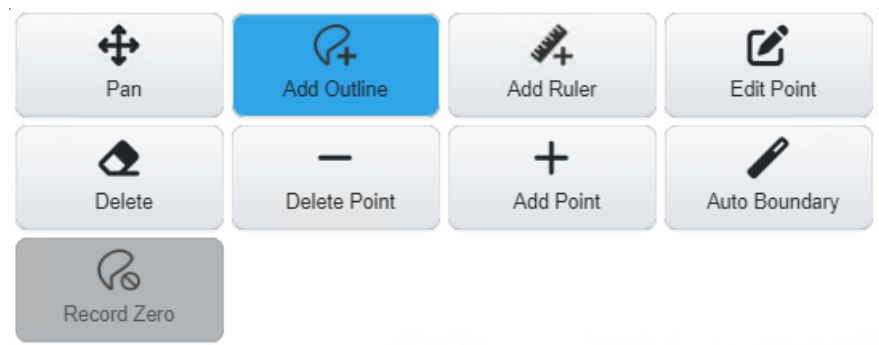


|                                                                                                    |                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Pan         | Select the Pan tool to move the image when it is zoomed.                                                                                                                    |
| <br>Add Outline | Select the Add Outline tool to add an outline to the image.                                                                                                                 |
| <br>Add Ruler   | Select the Add Ruler tool to add a ruler to the image. A ruler is used to measure the distance between two points.                                                          |
| <br>Edit Point  | Select the Edit Point tool to edit outlines and rulers.                                                                                                                     |
| <br>Delete    | Select the Delete tool to delete outlines or rulers from the image.<br>Once the delete tool is selected then select the outline or ruler you wish to delete from the image. |

# Tracing Tools

## Toolbar on the Image Tracing Screen

- The selected tool has a blue background.
- A tool that can be selected has a light gray background.
- A disabled tool that can not be selected has a dark gray background.
- Measurements for the image are updated as you use the tools. In some scenarios the interface might block further actions while measurements are calculated.



|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| <br>Delete Point  | Use the Delete Point tool to select and remove individual points from an outline                                           |
| <br>Add Point     | Use the Add Point tool to add points into an outline line segment by clicking or touching where you wish to add the point. |
| <br>Auto Boundary | Auto Boundary (Automatic Wound Boundary Detection)                                                                         |
| <br>Record Zero   | Record Zero – Manually sets all measurements to be zero. Requires no tracing to be on image.                               |

## Auto Boundary (Automatic Wound Boundary Detection)

- To use the tool:
  - Use the **Add Outline** tool to draw a region of interest around the wound. This helps the automatic detection by identifying the approximate area of the image where the wound is. Always draw the region of interest so that the wound is fully encapsulated inside of the drawn outline.
  - Select the **Auto Boundary** tool.
    - If the wound boundary is able to be detected automatically inside the ROI, then the ROI outline will be replaced with the automatically detected boundary outline.
    - If the wound boundary can not be detected inside the ROI for any reason, then an error will be shown at the top of the screen. Make an edit to the ROI or delete it to clear the error. You can then retry the automatic wound boundary detection or trace the wound boundary manually.
  - Once the automatic wound boundary detection is completed, use the **Edit Point**, **Add Point** and **Delete Point** tools to adjust the generated outline.



## Auto Boundary (Automatic Wound Boundary Detection)



- ⚠ The automatic wound boundary detection feature provides best effort detection of the wound boundary. The automatic detection can be confused by foreign objects or complex features in and around the wound. Make sure you review the generated boundary using your clinical judgment, and only accept it if you agree it is an accurate outline of the wound boundary.
- ⚠ The Auto Boundary tool can be selected multiple times. Each time the wound outline will get smaller until a boundary can not be discovered inside the existing boundary
- ⚠ The automatic wound boundary detection feature does not replace a clinician's judgment. A clinician with appropriate expertise is still required to review and edit the auto outline before accepting it. The more complex the wound boundary the more likely the user will need to manually edit the automatic boundary or revert to manually tracing the image.

# Auto Boundary (Automatic Wound Boundary Detection)

## Auto Boundary Detection



*Before Auto Boundary Detection*



*After Auto Boundary Detection*

# Wound Status

## Wound Statuses

1. Wounds can be set to 1 of 4 states:
  - a. Open
  - b. Healed
  - c. Released from Follow-up
  - d. Amputated
2. When a wound is set to Open, it appears under the Wounds heading in the Patient Sidebar.
3. When a wound is set to Healed/Amputated, it appears under the Inactive dropdown menu in the Patient Sidebar.

Wound State \*

▼

Open  
Healed  
Released from Follow-up  
Amputated

Wounds

A: Scalp, Superior  
B: Left Foot, Heel

Inactive ▼

C: Right Calf

# Assessment Types

Select Assessment Type

Patient

Wound

First Appointment

Patient Visit Assessment

Wound Assessment

Pathology Assessment

BGL Record

Diagnostic Imaging Results

Lower Limb Neurovascular Assessment

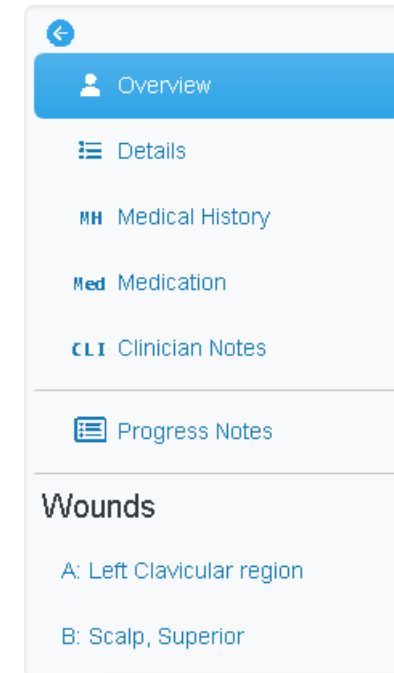
# Patient Notes

Notes are accessible from the Sidebar.

There are multiple types of notes:

- Investigation History – includes diagnostic tests and pathology.
- Medical History – current conditions, contributing factors, history of smoking and drinking, and previous clinical history.
- Medication – medications and sensitivities
- Clinician Notes – Records for different types of clinicians

To access any of the patient note sections, click on the blue text of the Sidebar to open the category.



# Notes

## Notes – continued

To add or view notes:

- Click on the category
- To add, click **Actions** -> **Edit** and then add in notes
- Click **Save** to save data.

The image displays two screenshots of the Aranz Medical web application interface for a patient named Timmyyy Tester (Patient ID: 123, Date of Birth: 2023-09-04, 0 years old).

**Top Screenshot:** The 'Investigation History' section is active. The 'Actions' dropdown menu is open, showing options: Edit, Wound, Add Wound, Export, Data Correction, and Merge Patient. A red arrow points to the 'Edit' option.

**Bottom Screenshot:** The 'Investigation History' section is active. The 'Save' button is highlighted with a red arrow. The 'Investigation History' form shows 'Diagnostic' as 'Venous duplex' and 'Pathology' as 'Albumin'.

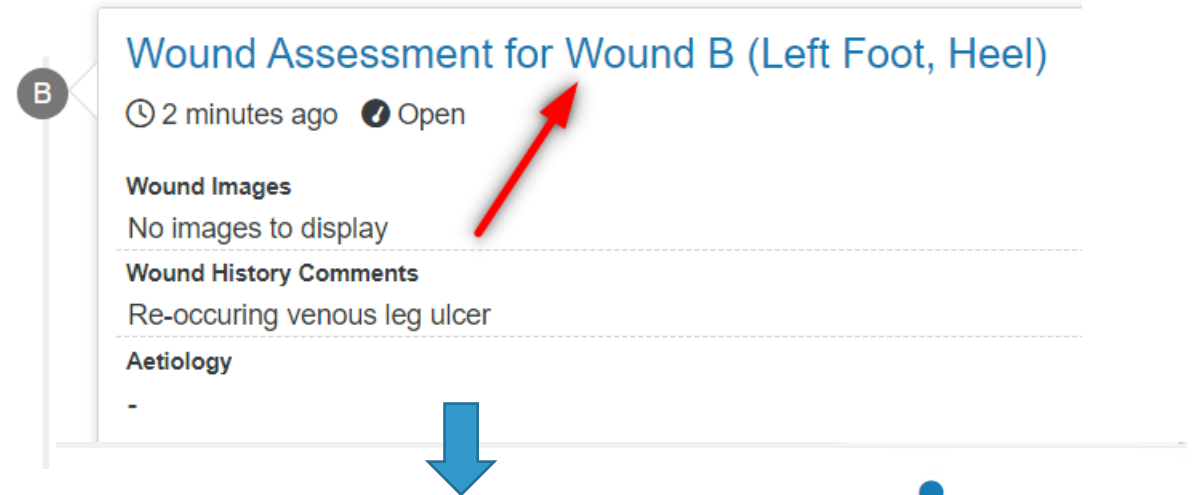
# Notes

## Generating a Wound Assessment Report

From the Patient Dashboard:

1. Find the assessment you want to create a report for in either the Patient Timeline, or select the Wound from the sidebar, and use the Wound Timeline
2. Select the assessment
3. Click on 'Actions' in the top right
4. Select 'Create Report' to save the report to your PC

### Wound Timeline

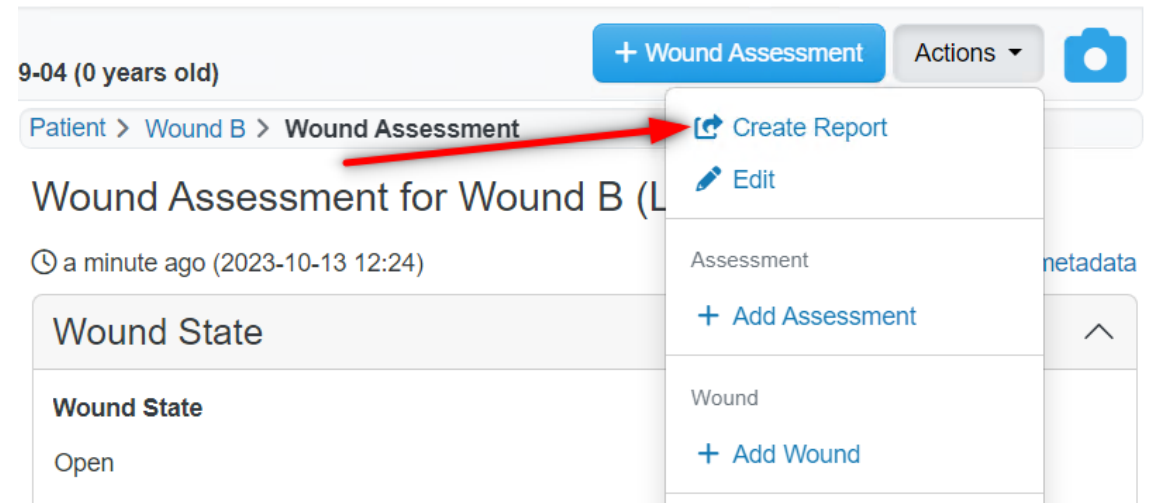


**Wound Assessment for Wound B (Left Foot, Heel)**  
 ⌚ 2 minutes ago ⓘ Open

**Wound Images**  
 No images to display

**Wound History Comments**  
 Re-occurring venous leg ulcer

**Aetiology**  
 -



9-04 (0 years old) + Wound Assessment Actions ▾

[Patient](#) > [Wound B](#) > [Wound Assessment](#)

**Wound Assessment for Wound B (L**

⌚ a minute ago (2023-10-13 12:24)

**Wound State**

**Wound State**  
 Open

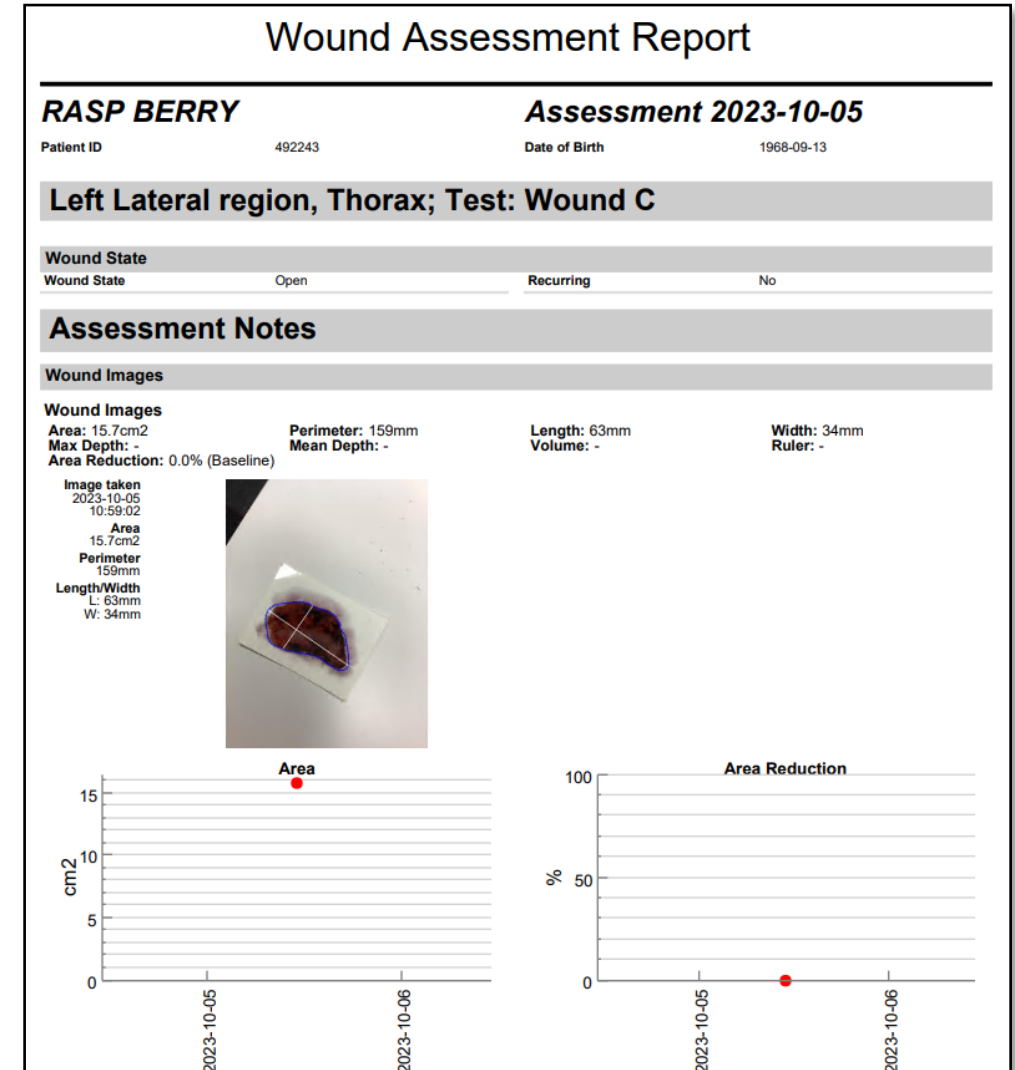
**Actions:**  
 ➤ Create Report  
 ✎ Edit  
 + Add Assessment  
 + Add Wound

# Notes

## Generating a Wound Assessment Report

From the Patient Dashboard:

1. Find the assessment you want to create a report for in either the Patient Timeline, or select the Wound from the sidebar, and use the Wound Timeline
2. Select the assessment
3. Click on 'Actions' in the top right
4. Select 'Create Report' to save the report to your PC



# Using SilhouetteConnect

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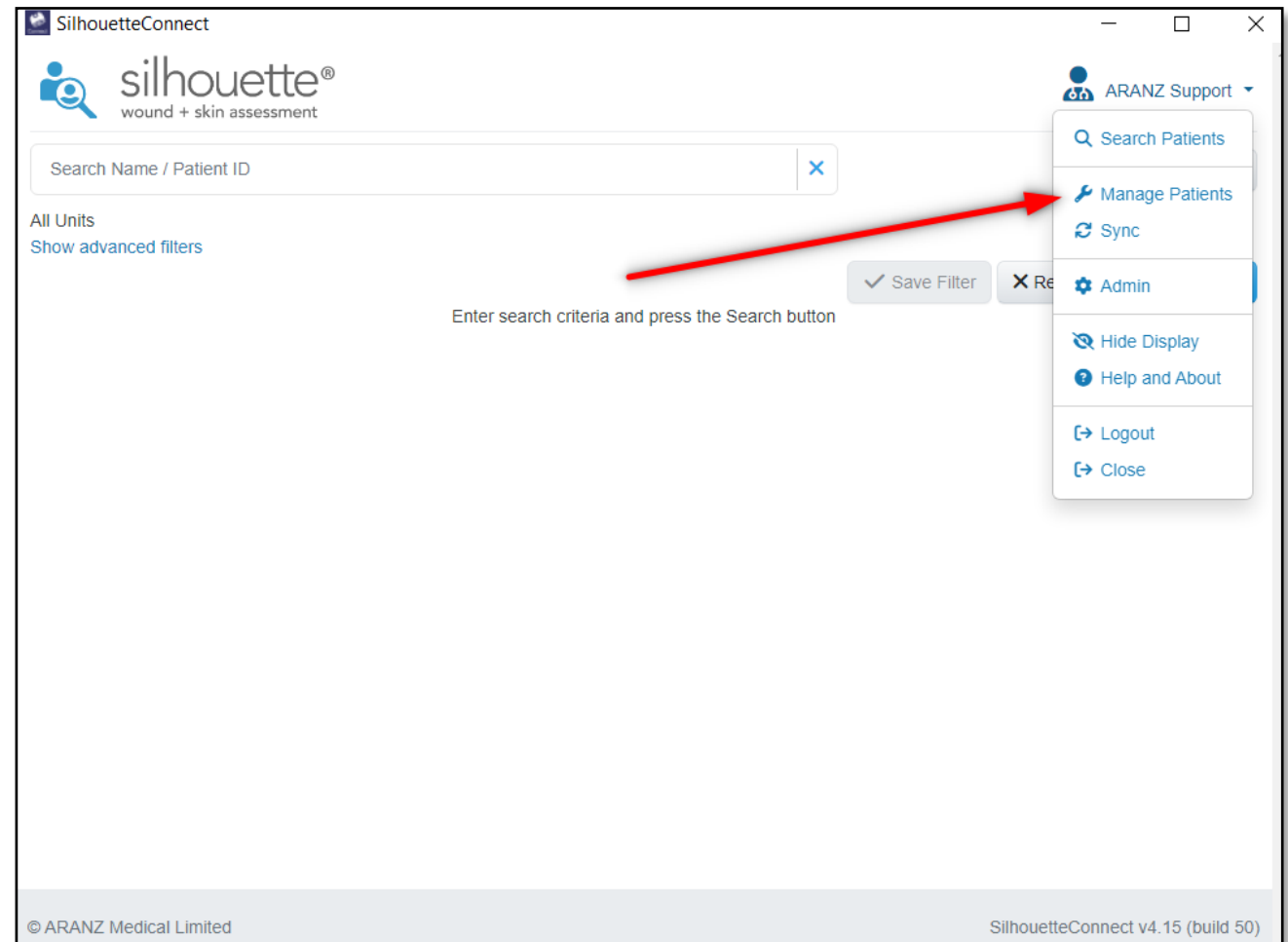
# Using SilhouetteConnect – Manage Patients

## Using SilhouetteConnect – Manage Patients

SilhouetteConnect downloads patient data from SilhouetteCentral for use on the PC.

Data is collected, and then ‘synchronised’ to send the data back to SilhouetteCentral.

To ‘download’ patient data from SilhouetteCentral, click on your username in the top right, and select ‘Manage Patients’



# Using SilhouetteConnect

## Using SilhouetteConnect – Manage Patients

The panel on the left shows patients available for use on the SilhouetteConnect.

The panel on the right shows all patients in SilhouetteCentral.

Selecting patients and moving them to the left or right panels shows which patients to download to the PC, and which to remove from the PC.

Click ‘Sync’ in the bottom right to commit the change and start the download of new patient data.

**SilhouetteConnect - Manage Patients**

### Patients on this SilhouetteConnect

| Last Name                      | First Name | Middle Name | Patient ID |
|--------------------------------|------------|-------------|------------|
| <input type="checkbox"/> Irwin | Steve      |             | 834        |
| <input type="checkbox"/> Smith | John       |             | 123        |

### Available Patients

| Last Name                                  | First Name | Middle Name | Patient ID |
|--------------------------------------------|------------|-------------|------------|
| <input type="checkbox"/> Of Arc            | Joan       |             | 125        |
| <input checked="" type="checkbox"/> Tester | Timmy      |             | 987        |
| <input type="checkbox"/> White             | Betty      |             | 621        |

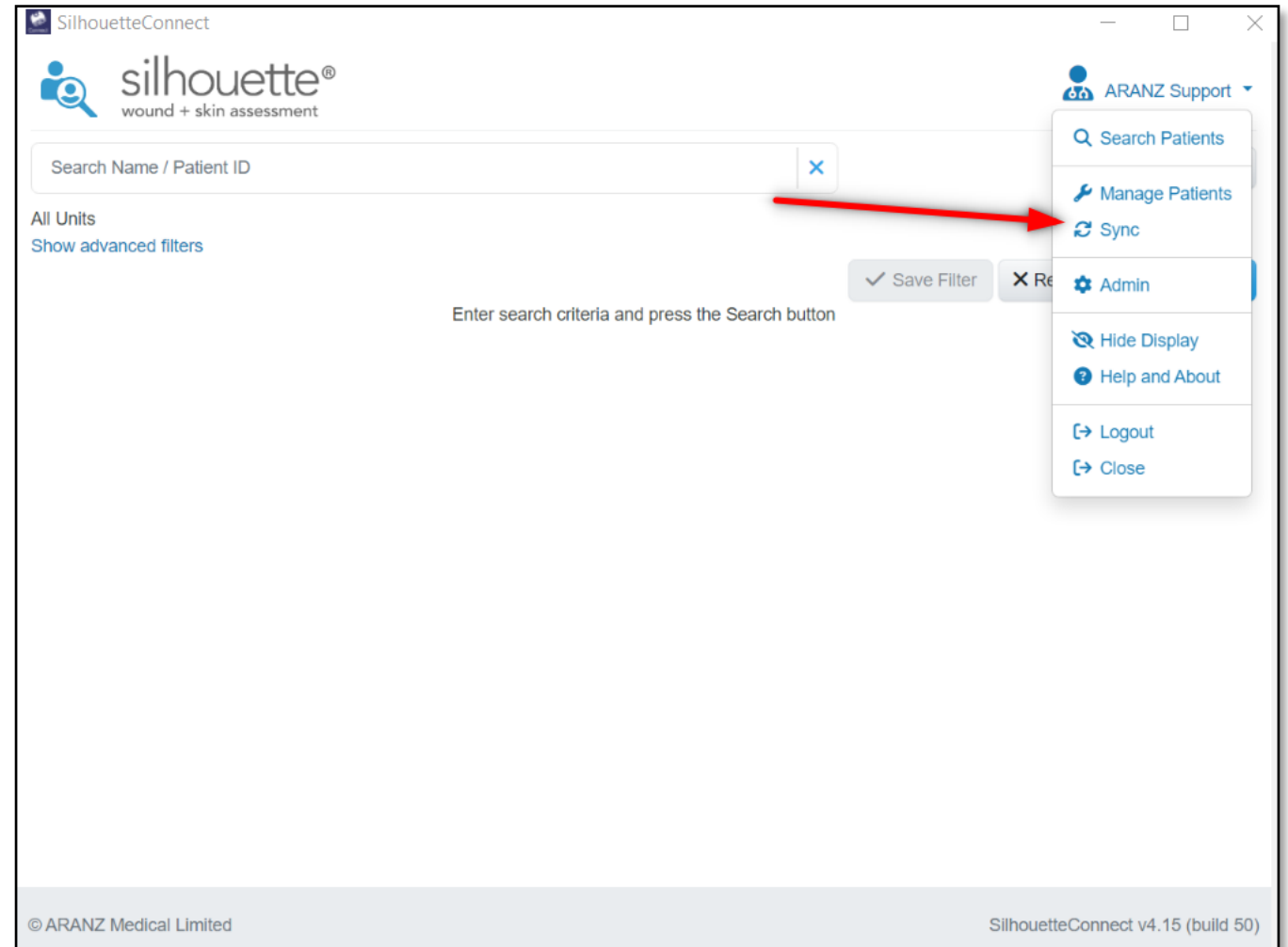
☒ Cancel

# Using SilhouetteConnect – Synchronisation

## Using SilhouetteConnect

When synchronising, any new captured data will be uploaded to SilhouetteCentral, and any new data for patients downloaded onto SilhouetteConnect will be downloaded.

To synchronise, click on your username in the top right, and select **'Sync'**

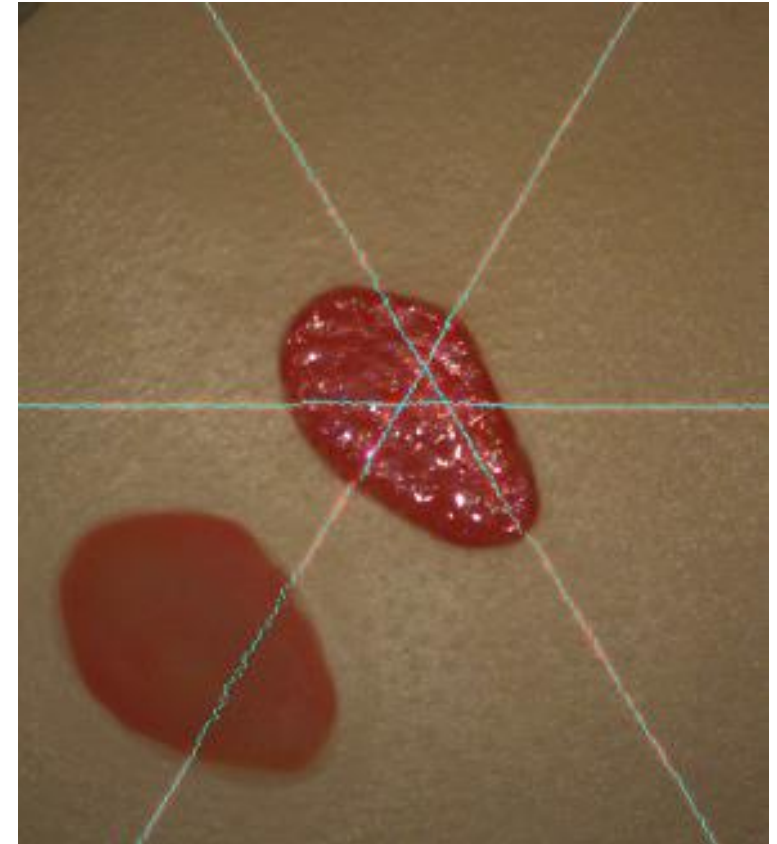


# Noteworthy Topics

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# Image Quality

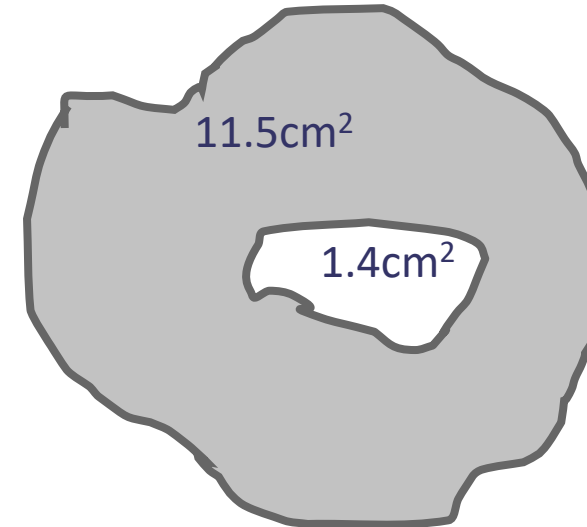
- Ensure there are plenty of laser detections
  - Indicated by the blue/green overlays both inside and outside the wound.
  - If the composite image shows blue/green dots or bright spots in or near the wound that don't correspond to the laser line then consider retaking the image with less ambient light (e.g. have someone shade the wound area)
- The 3 laser lines cross inside the boundary
- One of the laser lines crosses through the deepest part of the wound



# Performing an Assessment

## Imaging a Wound with an Island

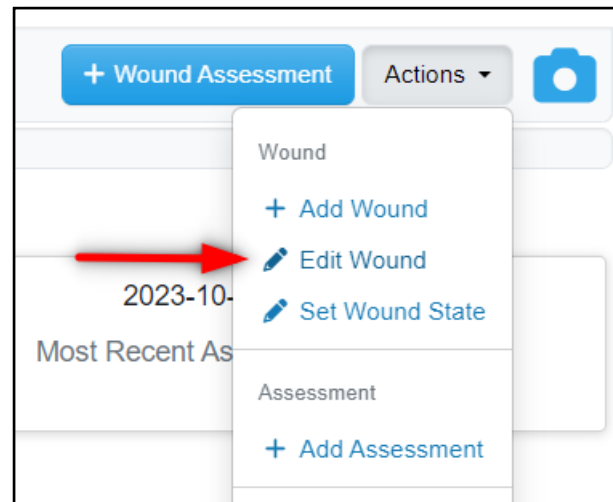
1. Image ulcer
2. Outline ulcer
3. Draw separate outline of island
4. Area of island will be subtracted from area of target ulcer
5. Multiple islands can be managed
6. Volume will not be calculated



Reported area of wound is  $10.1\text{cm}^2$

# Changing the Anatomical Site

- On the dashboard, select the wound label whose anatomical site you need to change
- Select **Actions** -> **Edit Wound**, and make the necessary changes then **Save**.



Wound A: Left Foot, Sole (Open)

**Group**

**Gross Division**

**Handedness**

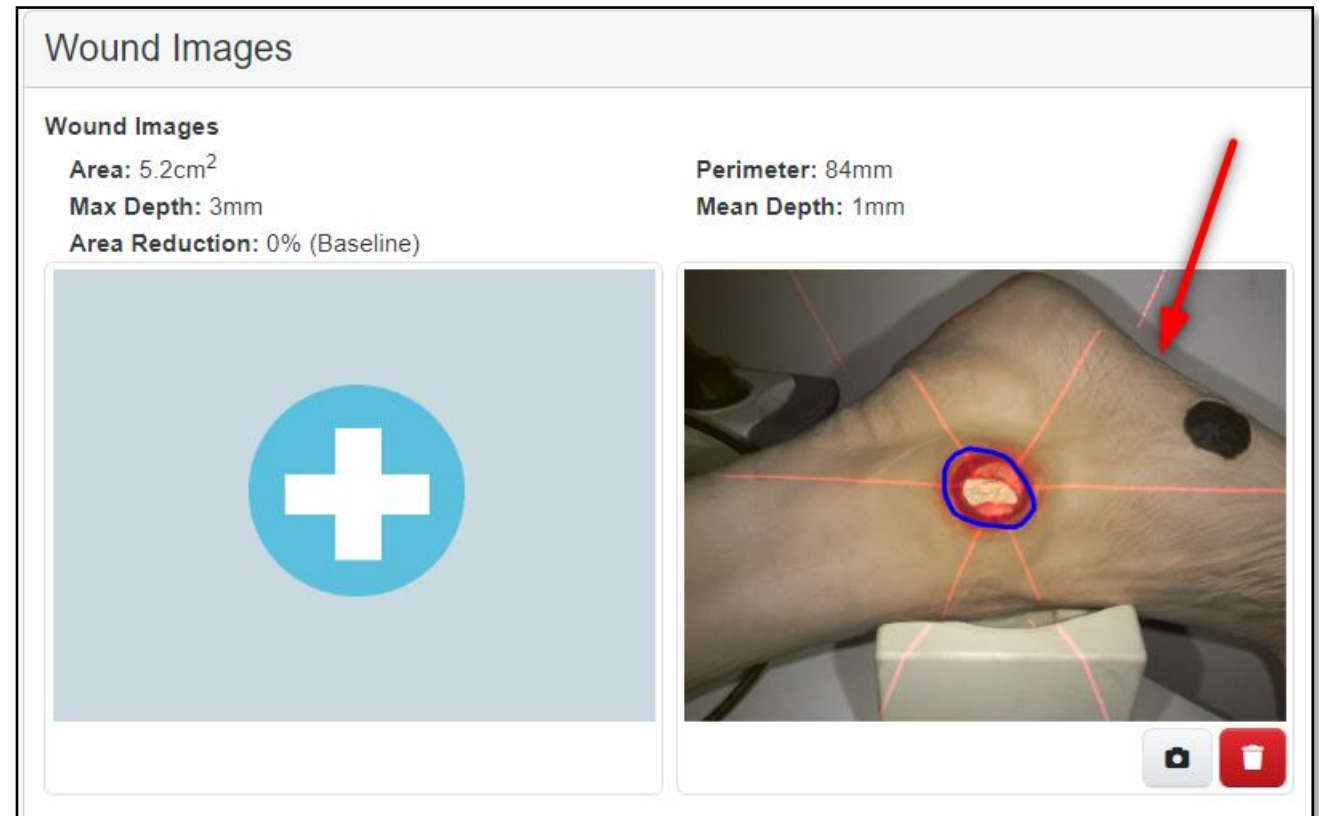
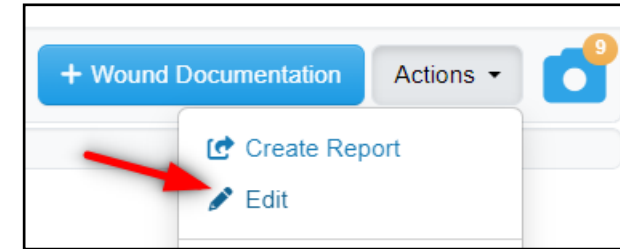
**Region**

**Wound Auxiliary Text**

Close

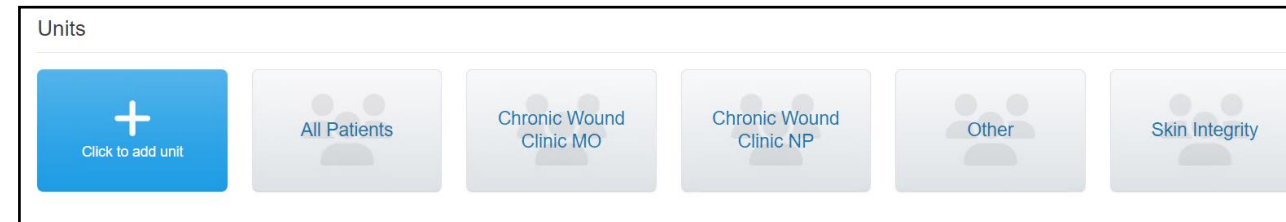
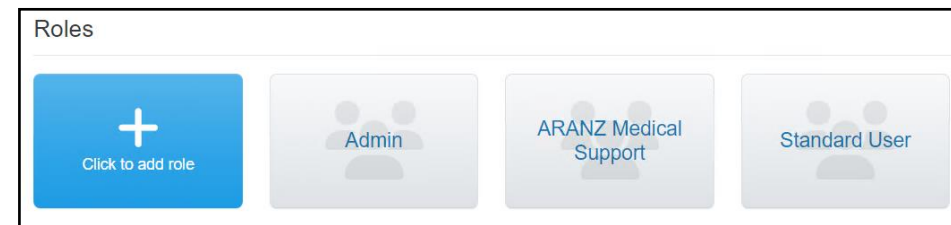
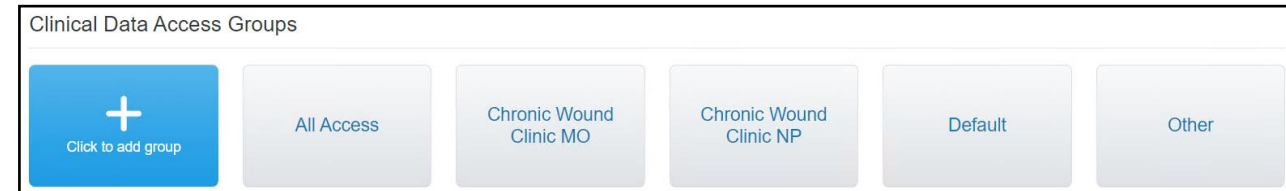
# Editing an Image / Measurement

- Select the assessment to be edited.
- Select **Actions** -> **Edit**
- Click on wound image, then edit the tracing as desired
- Click **Accept**
- Click **Save** to keep the changes



# SilhouetteCentral – Clinical Data Access Groups, Roles and Units

- **Clinical Data Access Groups**
  - Gives users access to specific units within their access group
  - I.e. Clinical Data Access Group allows staff access to one or all Units
- **Roles**
  - Specify permissions of Site Staff within their Group
- **Units**
  - This is where the patient data is stored
  - Each patient can only belong to one unit
  - Users are allocated units based on their access Group i.e. Clinical Data Access Group allows users to manage data within a specific Unit



# Your Computer

## Date, Time, Time-zone:

- The computer's clock is used by Silhouette for the date/time of the assessment, visit, etc. - please ensure it is always correct

### Date & time

#### Date and time

3:53 PM, 1 March, 2018

Set time automatically

☒ On

Set time zone automatically

☐ Off

Change date and time

Change

Time zone

(UTC-05:00) Eastern Time (US & Canada)

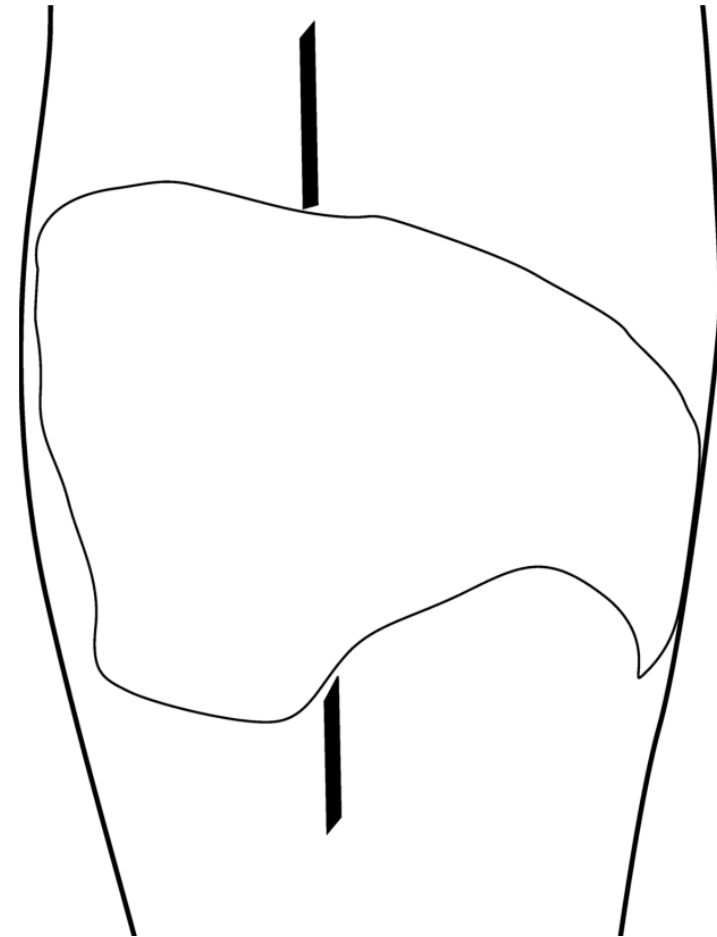
▼

Adjust for daylight saving time automatically

☒ On

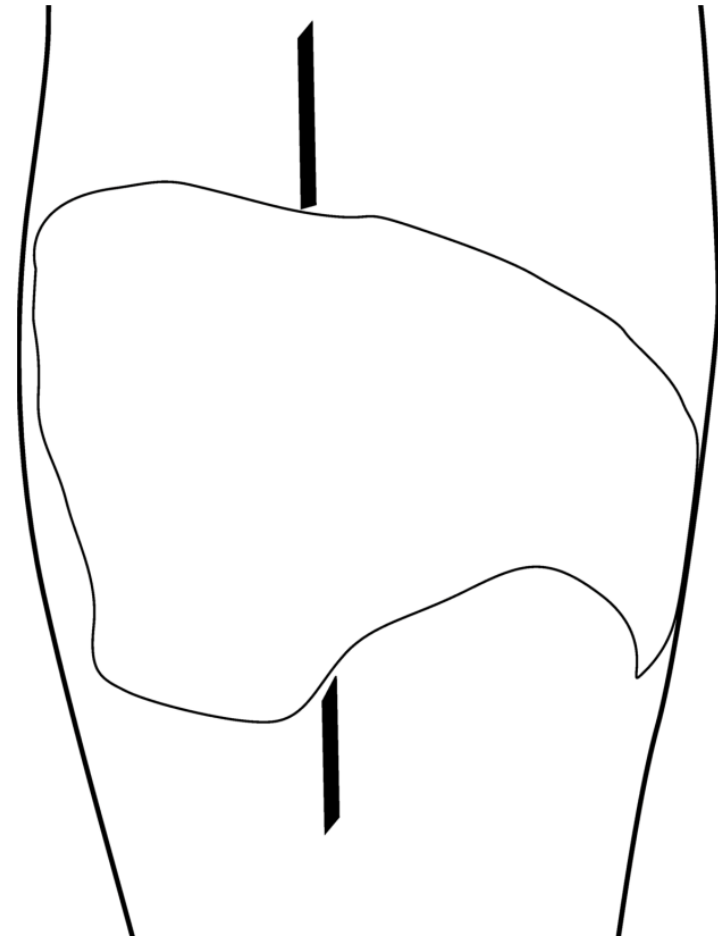
## Capturing a Multiple Image Assessment - 1

- A wound that is approximately 20cm on its longest side and viewable from a single camera viewpoint can be captured in one image.
- For larger wounds or wounds where images can't be captured in one viewpoint, multiple images need to be taken.
- SilhouetteCentral automatically combines measurements from images assigned to the same wound in the same assessment.



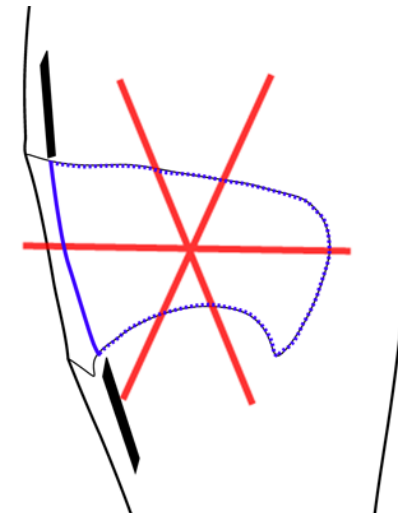
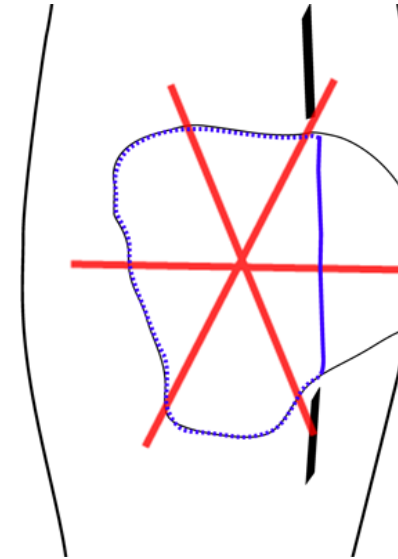
## Capturing a Multiple Image Assessment - 2

- Steps
  1. Plan where the different images of the wound will be captured
  2. Use a surgical marker to mark on healthy skin where the edges of the different images will be located



## Capturing a Multiple Image Assessment - 3

3. Capture an image of each segment of the wound and the surgical marker lines. Ensure the laser crossing point is located within the wound segment
4. Assign each image to the same wound (eg. all Wound A)
5. For the first image, start at the surgical marker point and trace the wound boundary, stopping when you reach the other surgical marker point, then select the target to close the wound outline
6. For the next image, trace the second segment



**Timmy Testerman**  
Patient ID: 9999999999999999 Date of Birth: 12/12/2000

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←

-  Overview
-  Details
-  Medical History
-  Medication
-  Clinician Notes

---

 Progress Notes

---

**Wounds**

A: Scalp, Superior

Progress Note

Timmy Testerman (Date of Birth: 30-07-1987, ID: 999999)

Filename: ProgressNote\_999999\_Testerman\_Timmy\_04-03-2024T1137\_Rev\_2.pdf

Date: 04-03-2024 11:37:52

Revision: 2

Contents

• Patient Notes

• Wound A: Wound Assessment Report (04-03-2024 11:33:47)

Patient Notes

Details

|             |           |               |                        |
|-------------|-----------|---------------|------------------------|
| Patient ID  | 999999    | Unit          | High Risk Foot Service |
| Last Name   | Testerman | First Name    | Timmy                  |
| Middle Name |           | Date of Birth | 30-07-1987             |
| Gender      | Male      |               |                        |

Other Details

|         |              |
|---------|--------------|
| Address | Phone Number |
|---------|--------------|

# Progress Notes

1. To generate a Progress Note, select a patient.
2. Open the 'Progress Note' tab on the patient sidebar.
3. Click on 'Add Progress Note' in the top right.
4. Select the items you wish to add to the Progress Note
5. Electronically sign the document by entering in your Silhouette account's password.

## E-Signature

By clicking confirm you are electronically signing the items below with the equivalent of your signature on paper.

Generating

- Progress Note (patient 999999)

ARANZ Support

.....

Confirm

Cancel

Timmy Testerman

Patient ID: 999999 Date of Birth: 30-07-1987 (36 years old)

Generate

Cancel

Overview

Details

Medical History

Medication

Clinician Notes

Progress Notes

Wounds

A: Scalp, Superior

Patient > Progress Notes > Add Progress Note

Patient Notes

Details

Medical History

Medication

Clinician Notes

Assessments

All

Selected (3)

Lower Limb Neurovascular Assessment

04-03-2024 11:54 Signed: ARANZ Support (04-03-2024 11:55)

BGL Record

04-03-2024 11:53 Signed: ARANZ Support (04-03-2024 11:55)

Diagnostic Imaging Results

04-03-2024 11:53 Signed: ARANZ Support (04-03-2024 11:55)

Pathology Assessment

04-03-2024 11:52 Signed: ARANZ Support (04-03-2024 11:55)

Patient Visit Assessment

04-03-2024 11:52 Signed: ARANZ Support (04-03-2024 11:55)

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# Progress Notes

6. The new Progress Note has now been generated and can be opened by clicking on the blue text.
7. The report will be opened and can now be saved to your PC.

## Progress Notes

| Generated Date     | Revisi... | Progress Note                    | Signed By     | Edit                                                                                |
|--------------------|-----------|----------------------------------|---------------|-------------------------------------------------------------------------------------|
| 04-03-2024 11:58   | 1         | ProgressNote_999999_Testerman... | ARANZ Support |  |
| 04-03-2024 11:54   | 1         | ProgressNote_999999_Testerman... | ARANZ Support |  |
| ▼ 04-03-2024 11:37 | 2         | ProgressNote_999999_Testerman... | ARANZ Support |  |

Progress Note

Timmy Testerman (Date of Birth: 30-07-1987, ID: 999999)

Filename: ProgressNote\_999999\_Testerman\_Timmy\_04-03-2024T1158\_Rev\_1.pdf  
Date: 04-03-2024 11:58:26  
Revision: 1

Contents

- Patient Notes
- Patient Visit Assessment Report (04-03-2024 11:52:17)
- BGL Record Report (04-03-2024 11:53:45)
- Lower Limb Neurovascular Assessment Report (04-03-2024 11:54:03)

Patient Notes

| Details     |           |               |                        |
|-------------|-----------|---------------|------------------------|
| Patient ID  | 999999    | Unit          | High Risk Foot Service |
| Last Name   | Testerman | First Name    | Timmy                  |
| Middle Name |           | Date of Birth | 30-07-1987             |
| Gender      | Male      |               |                        |

# Care and Warnings

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# General Care

- Laser and LED lighting may interfere with other equipment in the clinical environment
- If USB cable becomes lost or damaged, please contact support for a replacement (do not use a generic USB cable).
- Do not use in high humidity or high temperature conditions
- If you need to return for service for any reason, ensure that the camera is thoroughly wiped clean
- Don't leave the camera in places where it will be exposed to temperature extremes for extended periods of time, e.g., don't leave in a vehicle in the hot sun or in freezing conditions.
- Model 2010.xx (SilhouetteStar) contains a Lithium-Ion battery that must be charged to use the camera.
  - Use the supplied charger or an approved USB port.
  - The camera will only charge when it is sleeping (sleeping kiwi) or off.
  - The camera can be left on charge when not in use when in day-to-day operation.
  - For long term storage the camera should not be left on charge. It is recommended to store the camera with approximately 50% charge.
- More detail in the Quick Reference Guide supplied with the camera.

## Care and Maintenance

- SilhouetteStar should be cared for as for any precision optical instrument
  - Do not knock, drop or shake any components of the device
  - Ensure there is no dirt, moisture or scratching over the camera, laser and LED apertures on the front of the device
- After use, SilhouetteStar should be placed face down onto a smooth flat surface
- Care should be taken to avoid placing SilhouetteStar on abrasive surfaces since this may cause scratching to the front optical cover
- Care should also be taken to ensure the USB cable is carefully placed to avoid tripping and snagging
- There are no user servicable parts in SilhouetteStar

# Cleaning the SilhouetteStar

## ➤ Compatible Cleaning Agents

- *Mild Detergent* - water based wipes
- *Alcohol (isopropyl) based wipes*
- *Hydrogen Peroxide based wipes*

Ensure excess fluid from wipes does not enter camera openings. Do not submerge.

## ➤ Cleaning Agents to Use With Caution

- *Manual physical cleaning* - avoid abrasive materials. Scratching of the optical covers may negatively impact measurement accuracy.
- *Bleach based wipes, low effective concentration (1:50, 1:100)* - avoid long term exposure.
- *Bleach based wipes, high effective concentration (1:10)* - avoid long term exposure.

# Cleaning the SilhouetteStar

- **Non-Compatible Cleaning Agents**
  - *Ultrasonic cleaning* – SilhouetteStar is not designed for liquid submersion.
  - *Ultra-Violet cleaning* – SilhouetteStar is not designed for exposure to high levels of ultra-violet light. Damage to the optical components could occur.
  - *Steam* – SilhouetteStar is not designed for contact with steam.
  - *Thermal Disinfection* – SilhouetteStar is not designed for thermal disinfection.
  
- Complete document available in the User's Guide

# Laser Safety

- Read the appropriate sections of the User's Guide or Quick Reference Manual.
- SilhouetteStar incorporates lasers. These are Class 1 lasers for all operational procedures. However, the following precautions are recommended:
  - Never stare into the laser beam and warn patients not to stare into the laser beam. Young children, or patients whose natural aversion reflex may be dulled due to medication or a medical condition, may be advised to wear a blindfold
  - Do not use in a manner that causes the laser light to shine into people's eyes
  - Operate the device so that it is pointing away from windows, doors, mirrors and other shiny reflective surfaces, and areas where other people are working
  - Do not view the lasers with optical instruments
  - There are no controls, adjustments or user serviceable parts that can affect the laser output. In the event of equipment failure, contact the manufacturer or agent for repair and servicing

# Computer Related

- Appropriate procedures must be in place to safeguard the physical security of the computer
- Do not try to view Silhouette program file data (i.e., via the Windows Explorer menu) unless specifically directed to do so by a Silhouette administrator or support personnel
- Ensure wireless interface(s), such as Bluetooth and Wi-Fi are secured

# Troubleshooting

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# Troubleshooting: The USB Connection

- If you are asked to connect SilhouetteStar
  - Ensure SilhouetteStar is connected with both ends of the USB cable plugged in fully, if using in wired mode.
  - Note that it may take up to 30 seconds for the computer to recognize SilhouetteStar when plugged into a USB port for wired mode.
  - Check that SilhouetteStar has sufficient battery if being used in wireless mode.
  - If using in wireless mode has the QR code been scanned?
  - If this does not resolve the issue, try these different steps:
    - Disconnect the USB cord from the computer and then reconnect (if using in wired mode)
    - Try different USB port (if using in wired mode)
    - Try scanning the QR code again after checking battery level
    - Restart SilhouetteCentral
    - Reboot SilhouetteStar 2 (hold down the button until the screen turns off, press the button to turn it on again)
    - Reboot your computer and retry
  - If you continue to experience problems, please contact your support contact person

# Support

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# Contact Details

## Support Hours:

- Monday to Friday, 0800 to 2000 (8am to 10pm), NZ time

## Contacts:

- Email: support@aranzmedical.com
- Phone: +64 3 961 1988 (International)  
+1 855 272 0341 (US)  
+44 0800 011 9626 (UK Toll Free)

(If your phone call is not answered within these hours, expect a reply call within 60 minutes)

# Any Questions?





# Training Complete



