

Clinical Software Innovations (CSI) thanks you for your interest in our Wound Area Software.

The following are direct screen shots from the Wound Areas software that are meant to illustrate some of its many useful features. Of course the best experience is to actually use the software. For this reason we offer a fully functional, completely free trial download that can be accessed via www.clinsoft.org or through www.bimeco.org

The basic processing of wound images to obtain wound measurements, such as wound area, length, width and perimeter, are done in common using either the WoundAreas Professional version or using the WoundAreas Premium version The main difference between these two versions is that the Premium version has a Report feature that functions in association with Excel (any version).

If you should have any questions please contact us at csi@clinsoft.org



Length = 3.6 cm Width = 2.1 cm Area = 6.3 sq cm PlantarUlcer_F459

Plantar ulcer processed using only x-calibration

Area, length, width and perimeter of the wound are immediately shown.

All data and the traced image can be saved and later recalled for review and printing.

It can also be made part of a report in the Premium version.

Complete processing of this wound image (import, calibration and tracing and save) took less than 60 sec.

Load Wound Image Calibrate Start Tracing Save Result End Program Report View Previous Data

Trace Color

Blue
Green
Red
White
Yellow

Trace Thickness

Thin
Medium
Thick

Length (Lx)

Width (Wy)

ImageGrab
ImageSave
ImageClear
LinesClear

Include L-W measurements

Wound area result is for TotalWound
Wound Area = 6.3 sq cm

To SAVE area: Click Save Result
To CLEAR: Click LinesClear
To TRACE again click Start Tracing

Perimeter (cm)

10.8
8.8
10.9
11.3

Shape Factor

0.657
2.06
0.624
0.62

Session Areas (sqcm)

6.1
12.7
5.9
6.3

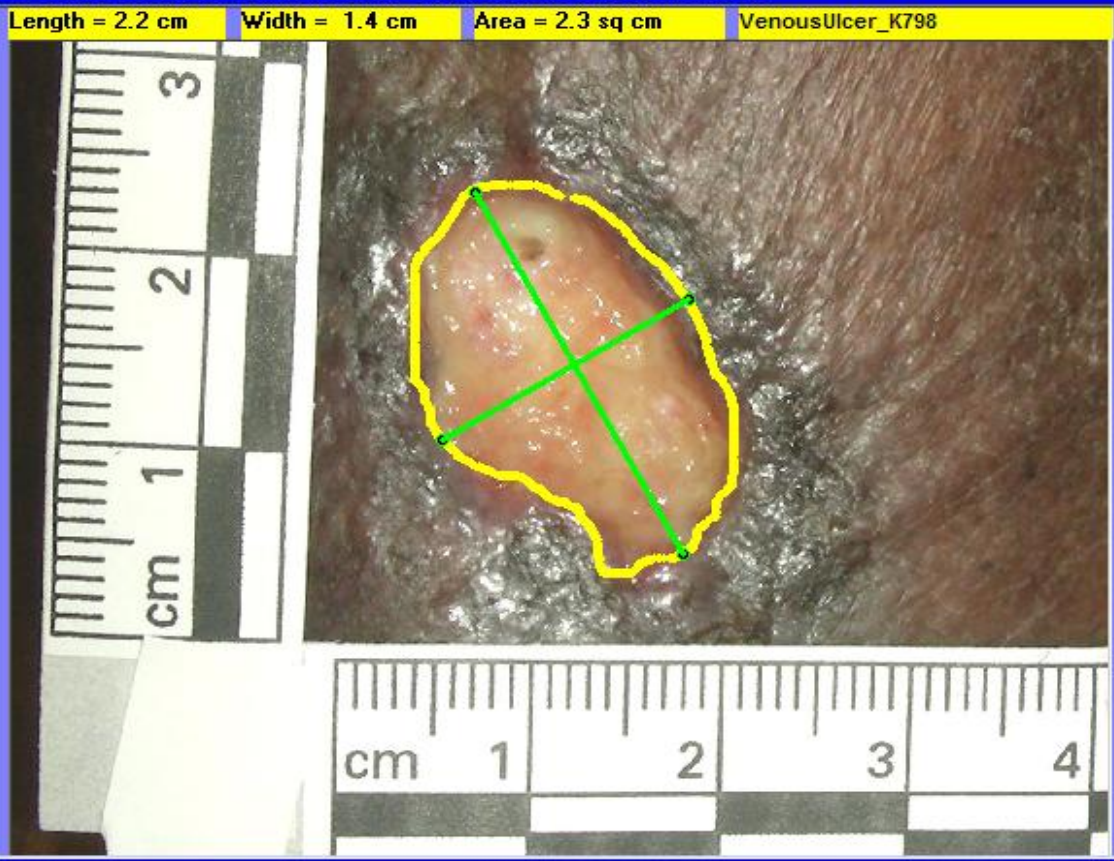
Total Area (sqcm)
6.3

Wound Length (cm)
3.6

Wound Width (cm)
2.1

Clear Results

The known area for this wound image is 6.1-6.3 cmsq. You can use it to practice your tracing procedure. Don't forget to trace in one direction - either clockwise or counter-clockwise and to slightly overlap the trace to include the start point to insure a closed area. Hold the left mouse button down for a continuous trace or use up-down clicks for a series of dots. You can calibrate using only the horizontal scale since that is all that is included with the photo



Venous ulcer processed using x and y-calibration

This feature is useful if the photographic angle is not close to 90° or lens-target distance is variable between treatment sessions.

In this image the vertical calibration scale is off-vertical.

The shape factor is an index of the circularity of the wound which may be useful to track shape changes with treatment.

Trace Color

Blue
Green
Red
White
Yellow

Trace Thickness

Thin
Medium
Thick

Length (Lx)

Width (Wy)

ImageGrab
ImageSave
ImageClear
LinesClear

Wound area result is for TotalWound
Wound Area = 2.3 sq cm

To SAVE area: Click Save Result
To CLEAR: Click LinesClear
To TRACE again click Start Tracing

Perimeter cm
6.6

Shape Factor
0.663

Wound Area cmsq
2.3

Total Area (sqcm)
2.3

Wound Length (cm)
2.2

Wound Width (cm)
1.4

Clear Results

Include L-W measurements
 Include X and Y calibrations
 Show Messages
 Islands?

The known area for this wound image is 2.1-2.3 cmsq. You can use it to practice your tracing procedure. Don't forget to trace in one direction - either clockwise or counter-clockwise and to slightly overlap the trace to include the start point to insure a closed area. Hold the left mouse button down for a continuous trace or use up-down clicks for a series of dots. You can calibrate using just horizontal scale or by checking the include xy calibration box, use both horizontal and vertical scales

Complex shaped venous ulcer shown before tracing.

Processed image is shown on the Next page.



Area = 20.5 sq cm

VenousUlcerComplex_SC2

View Previous Data

Load Wound Image

Calibrate

Start Tracing

Save Result

End Program

Report

Trace Color
Blue
Green
Red
White
Yellow

Length (Lx)

Width (Wy)

ImageGrab

ImageSave

ImageClear

LinesClear

Include L-W measurements

Wound area result is for TotalWound
Wound Area = 20.5 sq cm
To SAVE area: Click Save Result
To CLEAR: Click LinesClear
To TRACE again click Start Tracing

Perimeter cm

Shape Factor

Wound Area cmsq

Subtract Islands

Include X and Y calibrations

Show Messages

Islands?

Clear Lists

Clear Results

Complex shaped venous ulcer shown after tracing.

This illustrates the software's ability to deal with complex shapes and its ability to exclude traced interior island regions that are healed or need to be excluded for other reasons.

Checking the Islands box will Automatically subtract all interior islands from total area.


[View Previous Data](#)
[Load Wound Image](#)
[Calibrate](#)
[Start Tracing](#)
[Save Result](#)
[End Program](#)
[Report](#)
Trace Color

Blue
Green
Red
White
Yellow

Length (Lx)
Width (Wy)
[ImageGrab](#)
[ImageSave](#)
[ImageClear](#)
[LinesClear](#)
 Include L-W measurements

 Include X and Y calibrations

 Show Messages

 Islands?

[Clear Lists](#)
[Subtract Islands](#)
Perimeter cm

35.6
3.7

Shape Factor

0.211
0.734

Wound Area cmsq

21.3
0.8

Summed Area (cmsq)
20.5

[Clear Results](#)

Length = 3.7 cm Width = 2.2 cm Area = 6.4 sq cm PlantarUlcer_SC1



Wound Description

EXUDATE FEATURES

Exudate Type

- None
- Serous (thin-clear to yellow)
- SeroSang (pink to light red)
- Sanguineous (bright red)
- Seropurulent (tan to yellow)
- Purulent (thick-yellow to green)

Exudate Amount

- None (dry dressing)
- Minimal (damp dressing)
- Moderate (wet dressing)
- Copious (soaked dressing)

WOUND BED TISSUES

Necrotic (Brown-Black)

- None
- Minimal
- Moderate
- Excessive

Granulation Tissue

- None
- Healthy - Minimal
- Healthy - Moderate
- Healthy - Extensive
- Healthy - Complete
- Unhealthy Looking

Slough (Tan-Yellow)

- None
- Minimal
- Moderate
- Excessive

Epithelialization

- None
- Slight
- Moderate
- Extensive
- Complete

Eschar (Black-Hard)

- None
- Minimal
- Moderate
- Excessive

Odor

- None
- Some
- Foul

Wound Pain

- None (0)
- Slight (1-3)
- Moderate (4-6)
- Severe (7-10)

Pressure Ulcer Stage

- 1
- 2
- 3
- 4
- Can't Stage
- Not Applicable

Wound Type

- Ischemic Ulcer
- Skin Tear
- Neuropathic
- Traumatic
- Burn
- Diabetic

Periwound

- Normal
- Erythema
- Macerated
- Indurated
- Edema

Wound Margin

- Normal
- Erythema
- Macerated
- Indurated
- Edema

Undermining

- None
- Between
- At about
- 12
- 1
- 2

Depth (cm)

- 1
- 2
- 3
- 4
- 5
- 6

Tunneling

- None
- Between
- At about
- 12
- 1
- 2

Depth (cm)

- 1
- 2
- 3
- 4
- 5
- 6

Transfer Multiple Select

Close (keep selections)

Reset Selections

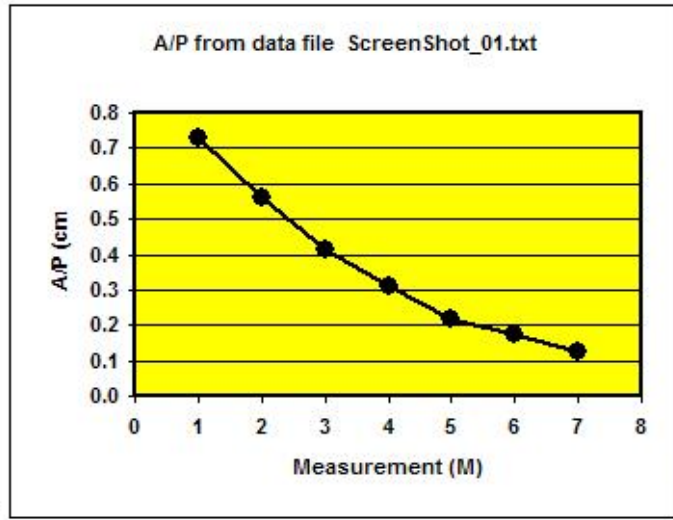
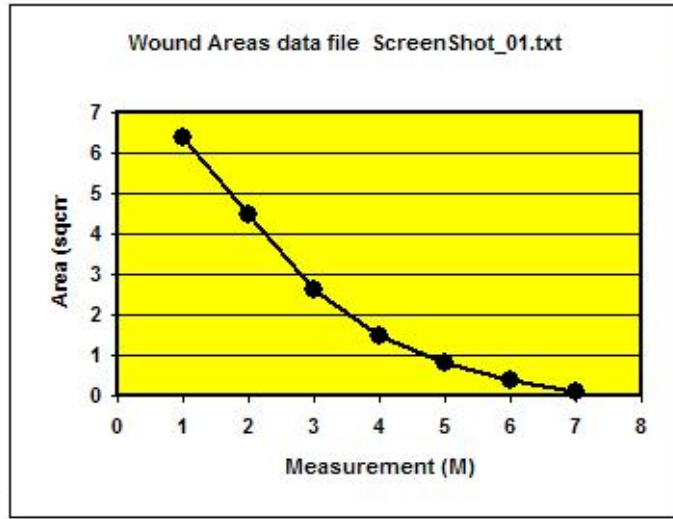
Wound Photo Date	7/10/2008
Initial Treat Date	7/10/2008
Exudate Type	None
Exudate Amount	None
Wound Type	Diabetic Ulcer
Necrotic Tissue	None
Slough	None
Eschar	None
Granulation	Healthy-Moderate
Epithelialization	None
Odor	None
Periwound	Erythema
Wound Margin	Erythema
Undermining	None
Tunneling	o'clock
Stage	Not Applicable
Pain	Slight (1-3)

Wound features can be easily assessed and documented using the Report feature in the Premium version. This shows the Wound Description page

ScreenShot_01	L cm	W cm	P cm	Area cm ²	Depth cm	Volume cm ³	A/P cm	M	Date
	3.7	2.2	10.0	6.4	0.2	1.3	0.73	1	2008-07-10
	3.3	2.1	8.0	4.5	0.2	0.9	0.56	2	2008-07-17
	2.9	2.0	6.3	2.6	0.1	0.3	0.41	3	2008-07-21
	2.4	1.7	4.8	1.5	0.1	0.2	0.31	4	2008-07-28
	1.9	1.2	3.7	0.8	0.1	0.1	0.22	5	2008-08-04
	0.8	0.7	2.3	0.4	0.1	0.0	0.17	6	2008-08-11
	0.2	0.1	0.8	0.1	0.1	0.0	0.13	7	2008-08-18

8/17/2008 21:56 Help DataPlots ClearPlots ClearData Menu

Data from file: ScreenShot_01.txt Also Plot A/P



Wound measurements can be easily imported to the report so that sequential changes in wound area and other parameters can be documented and automatically plotted.

Information concerning the wound description, notes, the traced wound image and the area plots can be transferred to a formatted REPORT page for documentation and Summary with simple button clicks.

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Load Data

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VIEW PAGES

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Wound

Photo

Traced Image

Report

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Close Report

Exudate Type	None	Wound Photo
Exudate Amount	None	
Wound Type	Diabetic Ulcer	Date
Necrotic Tissue	None	7/10/2008
Slough	None	Initial Treatment
Eschar	None	
Granulation	Healthy-Moderate	Date
Epithelialization	None	(M1)
Odor	None	7/10/2008
Periwound	Erythema	N of Tx to Date
Wound Margin	Erythema	
Undermining	None	Stage
Tunneling	o'clock	
Stage	Not Applicable	Pain
Pain	Slight (1-3)	



Menu ✕

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VIEW PAGES

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Wound

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Close Report

Wound Notes: This is a diabetic plantar ulcer originally treated starting on 7/10/2008. Image shows wound prior to treatment. Response to treatment excellent as indicated by the area reduction in the accompanying graph. Wound essentially closed and fully epithelialized after 7 weeks (M=7 in the plot).

This note section can also be used to describe treatment regimine and any other pertinent details of treatment and wound progression.



This is an example of a formatted REPORT page that is ready for printing and review

Evaluator:

Physician:

Date:

Other Report or Patient Identifier