Welcome to a quick tour of Limb Volumes Professional 3.0

LVP3.0 was developed by therapists for therapists. It has been evaluated in the field and has received rave reviews for ease of use, accuracy, flexibility and for its utility in patient reporting and documentation use.

Its utility has further been demostrated by its use in lymphedema clinical and research studies with scientific presentations at international meetings

It is the only automated limb volumes software that allows you to:

- choose any segment length to make your limb volume determinations
- accurately include hand volumes for upper extremeties
- accurately include foot volumes for lower extremities
- immediately view graphics display of segment-by-segment comparisons
- provide valid tabulated and graphic summary reports for documentation

Please review the following sequence of slides made from screen shots that show some of the main features and procedural steps in more detail

If you have any questions please contact us at info@bioscience-research.net or 954-205-7199

LIMB VOLUME CALCULATION, TRACKING & DOCUMENTATION Limb Volumes Professional Version 3.0

A clinical innovation from Bioscience Research Institute

This is a fully functional single machine license version of Limb Volumes Professional 3.0.



LVP3.0 helps you to easily and systematically calculate, track, document and report your patients' limb volumes prior to and during the course of therapy.

- 1. Arm or Leg volumes with unilateral or bilateral involvement
- 2. Edema volume of affected limbs (unilateral involvement)
- 3. Percentage edema of affected limbs (unilateral involvement)
- 4. Option to include HAND volumes as part of total upper extremity assessment
- 5. Option to include FOOT volumes as part of total lower extremity assessment
- 6. Absolute and % changes in limb volumes for unilateral and bilateral

For each patient visit that you measure limb size, simply enter the limb circumferences and let the software calculate limb volumes and display the needed comparisons graphically to provide an image of how well treatment is progressing. You can name, save, print and recall patient records as with any Excel file

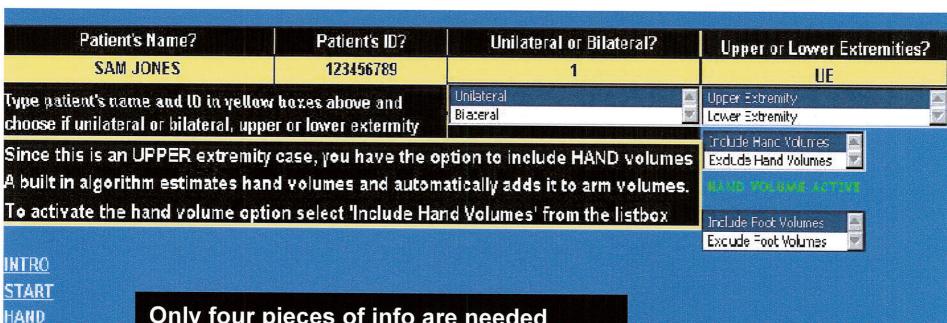
Proceed to the INTRO page



Order LVP3.0

INTRO PATIENT START HAND FOOT Visit 1 Visit 2 Visit 3 Visit 4 Visit 5 Visit 6 Visit 7 Visit 8 Visit 9 Visit 10 Visit 11 Visit 12

SUMMARY



Only four pieces of info are needed

- 1. Patient's name
- 2. Patient's ID
- 3. Unilateral or bilateral limb involvement
- 4. Upper or lower extremity

Next Step Enter Limb Lengths

If this is an upper extremity case, you have the option of including hand volume measurements. If it is a lower extremity case you have the option of including foot volumes. No other software offers this capability!

Visit 5 Visit 6 Visit 7 Visit 8 Visit 9 Visit 10 Visit 11 Visit 12 SUMMARY

F00T

Visit 1

Visit 2

Visit 3 Visit 4 If this is your INITIAL session with this patient then begin by entering patient information in the patient data page

Patient Data Page

If this is the patient's 1st visit then click here

If this is a FOLLOW-UP visit your patient's initial data has already been entered.

OPTIONS
For all subsequent visits you would go directly to the visit #
If this is a UPPER extremity case, and you have chosen to include hand volumes then
you should proceed to the HAND data entry page. If this is a LOWER extremity case and
you have chosen to include foot volumes, proceed to the FOOT data entry page

Otherwise, proceed to the appropriate visit number by clicking on the list

<u>Visit 1 visit 2 visit 3 visit 4 visit 5 visit 6</u>

<u>visit 7 visit 8 visit 9 visit 10 visit 11 visit 12</u>

PATIENT

START

HAND

FOOT

Visit 1

Visit 2

Visit 3

Visit 4

Visit 5

Visit 6

Visit 7

Visit 8

Visit 9

Visit 10

Visit 11

Visit 12

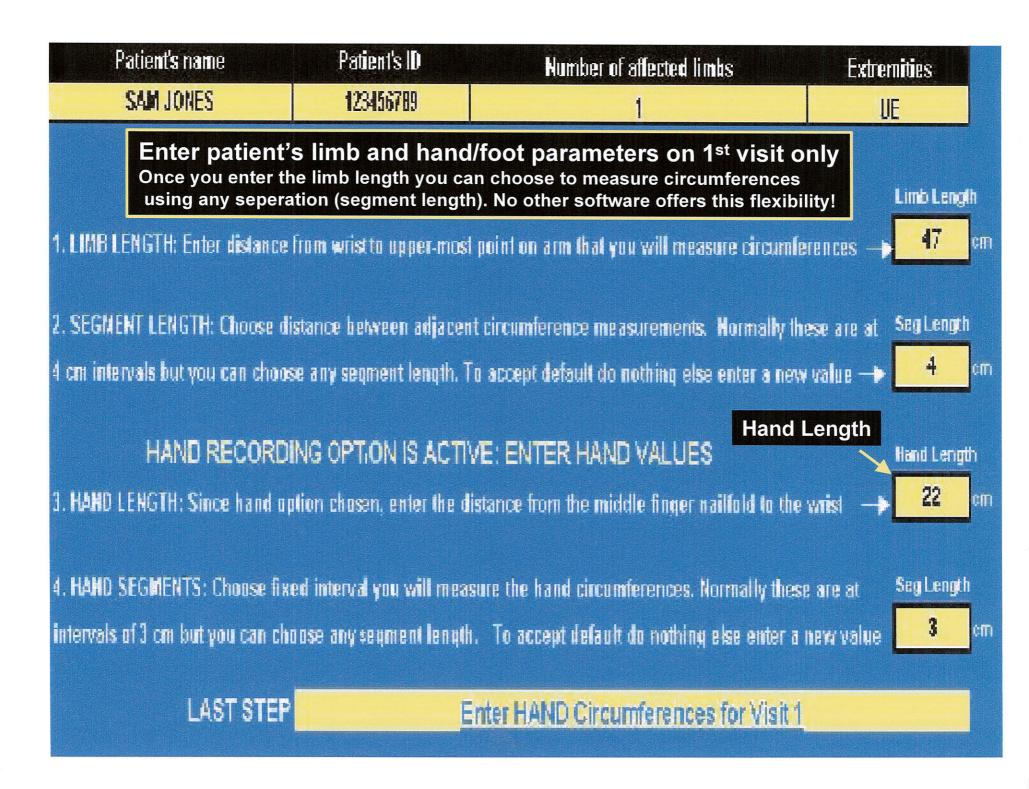
SUMMARY

Serial Number

JNK2088685040RAF327159779

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Info/technical support: <u>info@bioscience-research.net</u> 954-205-7199



Enter Hand Circumferences (Optional)

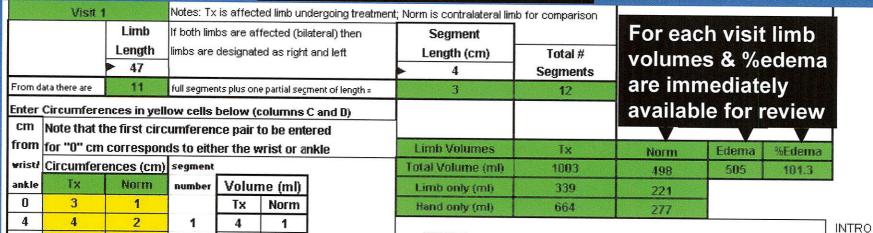
This form is used to calculate hand volumes. Hand length and circumference measurement intervals are already set in the START page After you enter hand circumferences below, hand volumes are automatically calculated and added to arm volumes for each visit

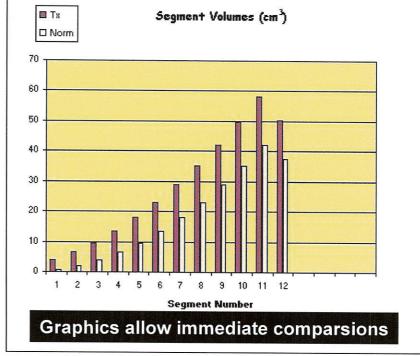
Hand	For the current visit, enter hand circumferences for segments 1 through 8														
ength (cm)	After entering these, click on current visit to begin entering Arm Circumferences														
	em Fron	HAND CIRCUMFERENCES (cm)													
	nad	num	Visit1		Visit2	Visit3	Visit4	Visit5	Visit6	Visit7	Visit8	Visit9	Visit10	Visit11	Visit12
Segment	0		Te	Nom	Te Merni	Ta Norn	Tu Nomi	Tx Horm	Ta Morri	Ta Horri	Ta Nerm	Ta Norm	Tal Morn.	7x Morra	Mo Mo
ngth (cm)	3	1 1	14	10											
	- 8	2	16	11											
	- 9	3	18	12		All th	at is no	odod b	oro io	100010					
			20	13		Allun	at 15 HE	eueu r	iere is	to ente	r hand	circum	nterenc	es at	
e of top	12		20	10											
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egmeins 7 Partial	15 18 21	5 6 7 8	22 24 26 28	14 15 16 18	Visit2	auton auton limb v	naticall naticall volume	y prede y calcu and al	etermir Ilates h so pres	ned site nand vo sents h	olumes and vo	and acolumes	algorith dds it to sepera	m o the	Visit12

Enter Foot Measuremts (Optional)

This form is used to calculate FOOT volumes. Refer to the foot measurement instructions and the foot image for definitions After you enter data below, foot volumes are automatically calculated and added to leg volumes for each visit **Show Foot View Instructions in PowerPoint** View/Print Instructions in PDF Enter data in mm. After entering foot data, click on current visit to begin entering leg Circumferences Font FOOT MEASUREMENTS (mm) Measurement Visit1 Visit2 Visit3 Visit4 **Visit5** Visit6 Visit7 Visith Visit9 Visit10 Visit11 Visit12 Parameters 14 L3 W/X WZ On this page you enter foot measurements according to a WY carefully constructed procedure from which foot volumes L12 LB are automatically determined and added to leg volumes W12 and also shown as foot volume seperately. W/8 W4 HX HZ. HY Enter data in mm FOOT VOLUMES (ml) Visit1 Visit2 Visit3 Visit4 Visitó Visitti Visit7 Visith Visit9 Visit10 Visit12 Visit11 Ts Morn

Enter Limb Circumferences





PATIENT START HAND FOOT Visit 1 Visit 2 Visit 3 Visit 4 Visit 5 Visit 6 Visit 7 Visit 8 Visit 9 Visit 10 Visit 11 Visit 12

SUMMARY

Circumferences for predetermined positions are entered into the yellow columns and all else is automatically determined for you!

Therapist name

Pt. Name

SAM JONES ID 123456789

Tx number

Date 3-Jan-04

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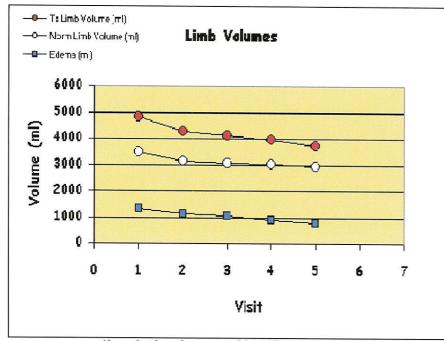
Summary Report

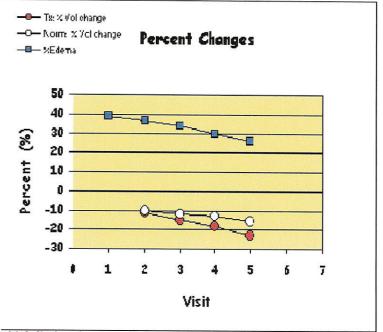
Summa	Summary Report for						ID ₁₂₃₋₄₅₋₆₇₈₉					
Yisit	1	2	3	•	5	6	7	8	9	1D	I1	12
Ta Limb Volume (ml)	4840	4290	4123	3943	3714							
Norm Limb Yolume (ml)	3491	3138	3071	3037	2945							
Edema (ml)	1348.6	1152	1052	903.16	769.48							
%Edema	38.6	33.7	34.0	29,8	26.1							
Ts: % Vol change		-11.4	-14.8	-18.5	-23.3							
Norm: % Yol change		-10.1	-12.0	-13.0	-15.6							

All important parameters are tabulated sequentially and graphed for easy viewing. The page can be printed and used directly as the report.

6/28/2003 23:57

Unilateral Upper Extremity

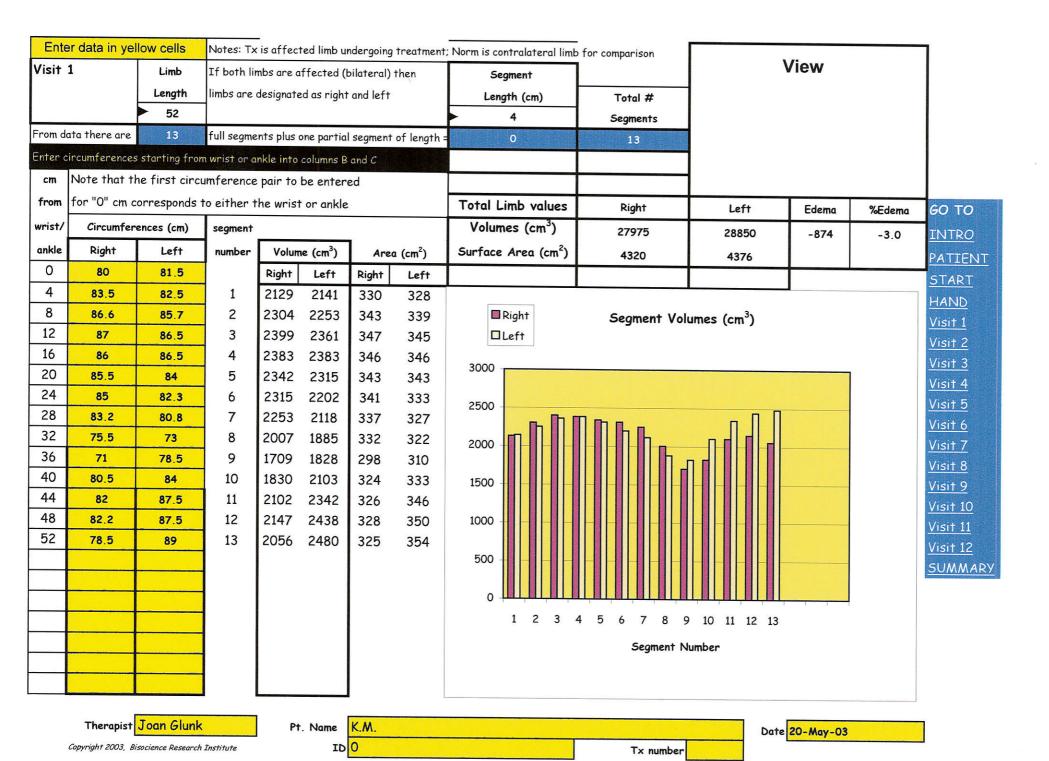


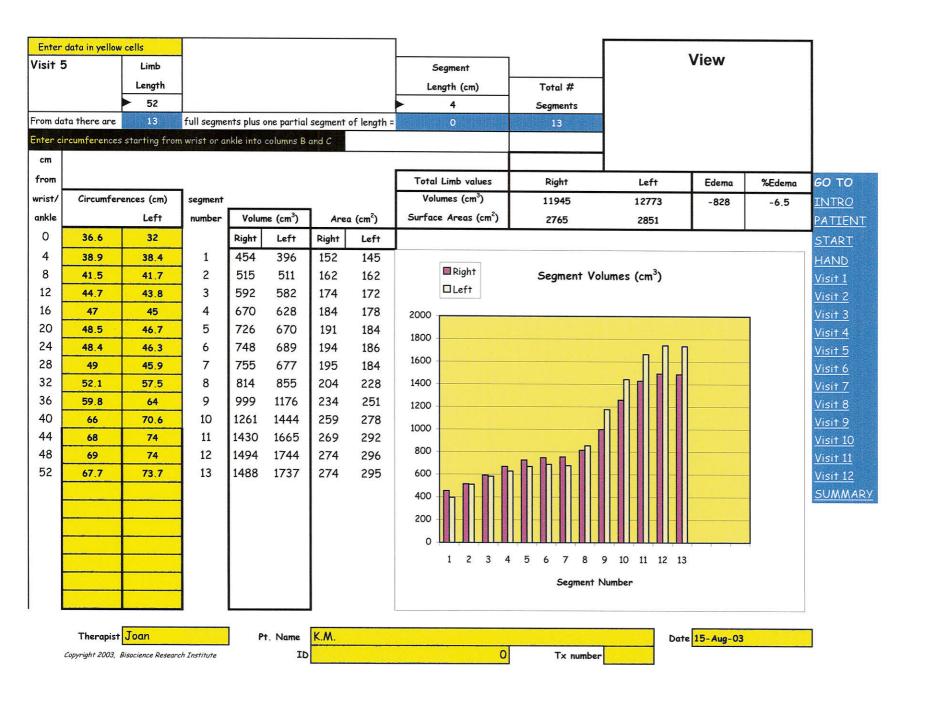


Note: In the above graphics, Visit refers to patient visits during which limb volume measurements were made

For bilateral cases the labels are automatically changed to reflect right and left limb volumes and percentage changes in limb volume

Case Study













Visit	1	2	3	4	5	6	7	8	9	10	11	12
Right Limb Volume (ml)	27975	16667	15473	14536	11945	0	0	0	0	0	0	0
Left Limb Volume (ml)	28850	16191	13629	16730	12773	0	0	0	0	0	0	0
Right-Left (ml)	-874.4	476	1843	-2193	-827.6							
Right-Left (%)	-3.0	2.9	13.5	-13.1	-6.5							
Right: % Vol change		-40.4	-44.7	-48.0	-57.3							

-42.0 -55.7

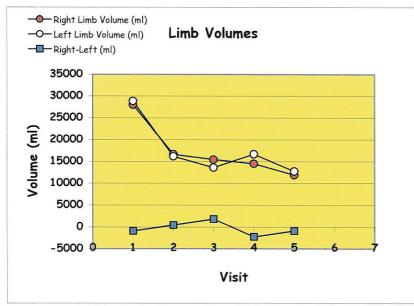
Summary Report for K.M.

Left: % Vol change

View

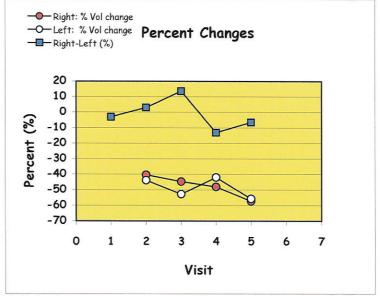
10/6/2004 14:51

Bilateral Lower Extremity



-52.8

-43.9



Note: In the above graphics, Visit refers to patient visits during which limb volume measurements were made

ID 0

Comments	