

Where can you find the cure for Venous Stasis Ulcer treatment?



The answer is in the

Did you know that giraffes have venous pressures of more than 250 mmHg at their ankles? That is three times more than humans. However, giraffes do not suffer from Lymphedema or Venous Disorders.

SKIN!

Physiologists have discovered the answer in the skin. Giraffe skin is inelastic, meaning that it does not stretch. Thus, giraffes are not susceptible to problems like Lymphedema and Venous Disease, even though they may be on their feet 24 hours a day.

CircAid[®] has incorporated this concept into its products, creating solutions that help patients heal while allowing them to maintain an independent lifestyle.

Since you aren't born with the skin of a giraffe, we have the next best thing:

CONSISTENT COMPRESSION

- Instantly adjustable, Inelastic
- Reliable²
- Faster healing rates vs. bandages

PATIENT FRIENDLY

- Improved hygiene
- Simple to use
- Comfortable

CIRCAIL

JUXTA CURES

• Safe for 24 hour use⁵

COST EFFECTIVE

- Reduces total cost of care by 47%⁴
- Reduces treatment time by 75%⁷

"The majority of patients who tried CURES™ found it easy to use, and comfortable to wear. Two patients who were non-compliant with compression stockings, became exceptionally compliant with CURES™, and continued using them to control swelling after ulcer healed."

- Dr. Fedor Lurie, M.D., Honolulu, HI



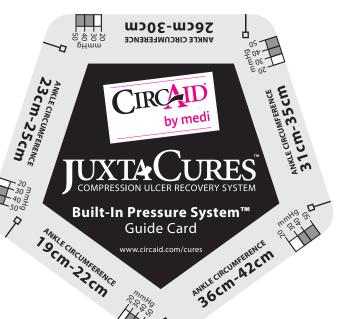
We have the solution.

Juxta-CURES[™] (**C**ompression **U**lcer **Re**covery **S**ystem[™]) is an instantly adjustable, inelastic multi-layer compression system that may be used by hospitals and clinicians as a secondary dressing for the treatment of open venous stasis ulcers. This patented^{*} bandaging alternative is easy to use, comfortable to wear, and can help improve healing rates.

Measurable graduated compression.

Juxta-CURES[™] is engineered with the ability to ensure that 20-30, 30-40 or 40-50mmHg of compression is applied at the ankle with a graduated reduction towards the knee. The patented Built-In Pressure System[™] (BPS[™])¹⁰ is what makes this possible. Patients can set the compression level each time they don their legging by using the BPS[™] card. In addition, Juxta-CURES[™] is designed not to lose its compression integrity over the life of the garment.

Studies confirm that consistent inelastic compression is key to healing venous stasis ulcers³ and reducing edema. The patented Juxta[™] System⁹ allows for the easy application and adjustment, ensuring the appropriate compression level is being applied throughout the period of wear.





The Juxta-CURES[™] Built-In Pressure System[™] allows patients with venous stasis ulcers or mixed arterial-venous disease to set the compression to an acceptable prescribed level⁸.

Verifying the correct level of applied pressure is simple with the BPS[™] guide card, just measure, verify and adjust – **you can't do that with bandages!**



If you could heal your patients *faster* than using traditional bandaging, *while saving time and money*, would you try something new?

Save time. Reduce costs.

Ever stop to think about how much time and money is spent bandaging with Unna Boots or multi-layer systems? We did, that's why we created Juxta-CURES[™] Compression Ulcer Recovery System[™]. No more time or money wasted on endless bandaging, just one CURES[™] legging will meet the patients' compression needs for the whole treatment.

- **Durable and Reusable** One legging lasts for the duration of treatment, thereby reducing product and overhead costs.
- Quick and Efficient Reduce time spent treating each patient by up to 75%¹, reduce cost by up to 47%² and heal the ulcers faster³.
- **Easy Billing** CURES[™] is covered by CPT 29581 billing code, so you can bill the same way as bandaging with multi-layer systems.



Juxta-CURES[™] **Unna Boots** 2-Layer Bandaging 4-Layer Bandaging **Longevity of Product** 6 months disposable disposable disposable **Product Cost for Entire Treatment Period** \$148 \$160 \$315 \$376 Cost for Overhead and Staff's Time \$455 \$762 \$762 \$762 **Total Cost per Patient** \$603² \$922² \$1,077² \$1,138² **Total Cost Saved with CURES™ (%)** 35% 44% 47% **Average Application Time per Visit** 1.2 mins 6 mins 4 mins 5 mins **Total Application Time for 23 Week Period** 35 mins¹ 138 mins¹ 92 mins 1 115 mins¹ **Total Time Saved with CURES™ (%)** 75% 61% 70%

Do the math.



How CURES[™] is different.

- Patented Built-In Pressure System[™] ensures measurable gradient compression of 20-30, 30-40 or 40-50 mmHg¹⁰
- Faster ulcer healing rates³
- Short-stretch material is comfortable, breathable and features anti-odor and antimicrobial properties
- •The Juxta[™] System chases out the edema while providing assured, inelastic compression to the leg throughout the entire treatment period²
- Patients can easily apply, instantly adjust, remove and reapply
- Simple, adjustable design can be made to fit most patients
- Reusable and machine washable
- 6 month limited warranty

Patient involvement is essential.

Because patients will have the ability to adjust the garment, they will be able to maintain their prescribed compression level. This maintenance of their daily compression routine can help heal their ulcers faster³. Also, patients will now be able to maintain the hygiene of their limb.

Easy transitions.

After the ulcer has healed, patients can very easily transition into a Juxta-Lite[™] legging for their long-term compression therapy routine. This will help reduce the ulcer recurrence rate¹.

"CURES™ has proven to be easy and comfortable for patients to use. The compression is effective of course and the ease of application encourages patient compliance."

- Dr. Robert L. Kistner, M.D. Honolulu, HI

51% of patients are not compliant with multi-layer compression bandaging⁶.

CIRCAID

by medi

Juxta-CURES[™] deemed as favorable treatment solution for venous ulcers

Pilot Study August 2011

Fedor Lurie MD, Robert L. Kistner MD, Kistner Vein Clinic of Hawaii | Teresa Kennerknecht, CircAid[®] Medical Products, Inc.

Objective: A pilot study to determine suitability of Juxta-CURES[™] as a compression device for the treatment of venous ulcers. The study looked at clinician and patient satisfaction as well as the device's therapeutic effectiveness.

Background: Venous ulcers, caused by chronic venous insufficiency, occur mostly in the gaiter region of the lower leg and affect over 4% of the population over the age of 65. Ulcers are shallow wounds that are accompanied by skin thinning, discoloration, and irritation and swelling in the affected and surrounding area. The current standard of treatment is to correct underlying hemodynamic changes and proper wound care in conjunction with inelastic compression bandaging.

Treatment: Juxta-CURES[™], an adjustable inelastic compression wrap, was applied on 9 patients who suffered from venous ulcers in the lower extremities. Patients wore the Juxta-CURES[™] legging over the appropriate wound dressings and a sock liner, in combination with a compression anklet for the foot. Standard protocol of regular check-up appointments and routine wound dressing changes was followed throughout the treatment period. Most patients (7) wore Juxta-CURES[™] all day, every day, and the remaining patients wore the legging system

for 12 hours during the day, every day after one week of continual use. Study subjects consisted of 8 male and 1 female patients and ranged in age of 26 to 81 years. This study evaluated ease and time of garment application, ease of removal, fit, comfort, patient hygiene and compliance, control of edema, ulcer healing, and overall product quality.

Results: Clinician and patient response to Juxta-CURES[™] was overwhelmingly positive. All 9 of the patients' venous ulcers healed completely within an average time of 67 days with the use of Juxta-CURES[™]. Clinicians found that the system was easy and fast to fit and apply and that it provided a good fit for the patients' limbs. Patients also reported that Juxta-CURES[™] was easily applied and removed, that it was comfortable to wear, that it controlled their swelling, and that it allowed them to maintain their daily hygiene. Concluding the study, clinicians evaluated the change in the patients' edema and skin, the overall ulcer healing, and patient compliance as being 'excellent.'

Conclusions: This small case study suggests a strong trend towards clinicians' and patients' high level of satisfaction surrounding the use of Juxta-CURES[™] for the treatment of venous ulcers.

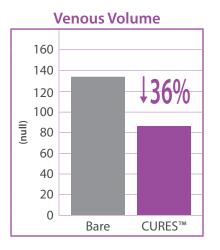
Clinicians noted that every single patient participating in this study liked the Juxta-CURES[™] system. They reported that even after the patients' wounds had healed with the Juxta-CURES[™] system, patients continued using it to control swelling. One particular comment states that a patient who had been non-compliant with compression therapy for 4 years was compliant with the Juxta-CURES[™] system.

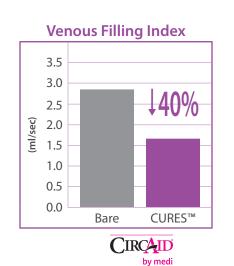
Quantified hemodynamics of compression garments

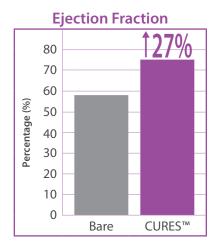
Pilot Study May 2012

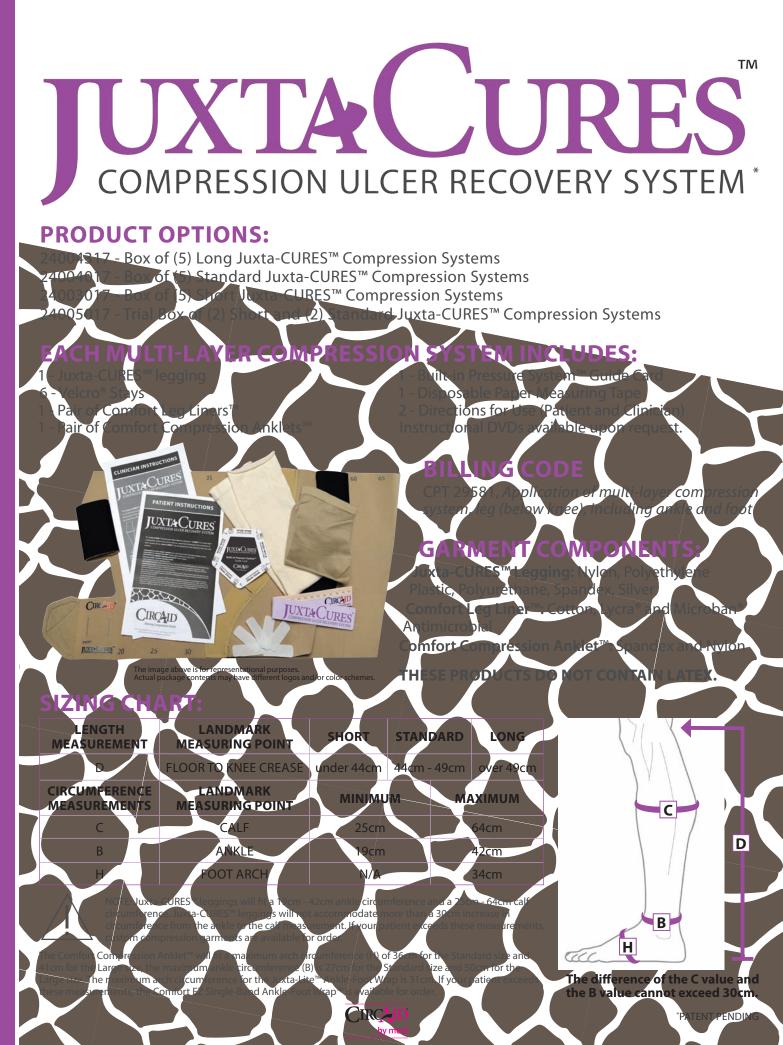
H. Fronek, E. Arkans, D. Bender | Presented at the International Compression Club | Vienna Austria

Pilot study of ten (10) patients with varying severity of venous disease to determine the effect of an inelastic compression garment on key venous hemodynamic measures. Juxta-CURES[™] was applied with the compression level set between 30-40mmHg. Hemodynamic measurements were taken using an APG device from ACI Medical. Juxta-CURES[™] reduced the venous volume an average of 36%, reduced the venous filling index by 40%, and improved the ejection fraction by 27%.

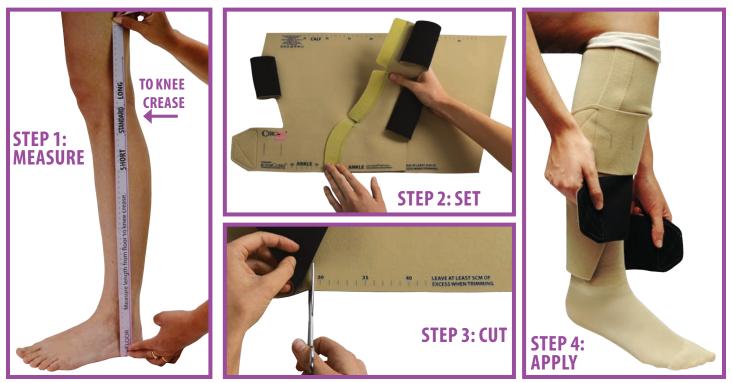








START to **FINISH** in just **4** easy steps.^{*}



DON'T FORGET: TO ORDER THE NECESSARY ANCILLARIES!

COMFORT

COMFORT LEG LINER™

The Comfort Leg Liner™ is a footless leg liner that can be worn directly against the skin, under compression garments. Note: This garment does not provide therapeutic compression.

PACKAGE INCLUDES: One (1) Pair of Comfort Leg Liners™

GARMENT COMPONENTS: Cotton, Lycra® and Microban® Antimicrobial

THIS PRODUCT DOES NOT CONTAIN LATEX.

COMFORT COMPRESSION ANKLET[™]

Available in Standard and Large sizes, the Comfort Compression Anklet[™] gives light coverage to the foot and ankle and can be worn with any CircAid® legging with or in the place of an Ankle-Foot Wrap.

PACKAGE INCLUDES:

GARMENT COMPONENTS:

One (1) Pair of Comfort Compression Anklets™ THIS PRODUCT DOES NOT CONTAIN LATEX.

Nylon and Spandex

The Comfort Compression Anklet™ will fit: maximum arch circumferences (H) of 36cm for the Standard and 41cm for the Large; maximum ankle circumferences (B) of 27cm for the Standard and 50cm for the Large. If your patient exceeds these measurements, the Comfort EZ Single-Band Ankle-Foot Wrap™ is available for order.



EZ SINGLE-BAND ANKLE-FOOT WRAP™

The Comfort EZ Single-Band Ankle-Foot Wrap[™] is available in two widths, 3″ (7.5 cm) and 4" (10 cm), and can be cut to fit any foot size.

PACKAGE INCLUDES: One (1) Comfort EZ Single-Band Ankle-Foot Wrap[™] THIS PRODUCT DOES NOT CONTAIN LATEX. **GARMENT COMPONENTS:** Nylon and Spandex



View the entire line of Comfort Ancillaries™ by medi online at: www.circaid.com/products/comfort

Clinical References

¹A RANDOMIZED TRIAL OF CLASS 2 AND CLASS 3 ELASTIC COMPRESSION IN THE PREVENTION OF RECURRENCE OF VENOUS ULCERATION **Two year follow-up results presented American Venous Forum, February 2009 by Dr. D. Milic**

In February 2009, Dr. Dragan Milic provided the answer to this question at the American Venous Forum meeting. Dr. Milic reported the two year follow-up results of over 320 venous stasis ulcer patients that were healed with compression bandaging and then were placed in compression stockings that provided A) an average of 25 mmHg compression at the ankle or B) an average of 40 mmHg compression. 1 out of 4 patients that received stockings that provided 25 mmHg had their ulcers come back during the 2 year period. While those who wore 40 mmHg compression stockings reduced the recurrence by 50%.

² JUXTA-LITE[™] PROVIDES RELIABLE, REPEATABLE GRADIENT COMPRESSION

Inelastic compression legging produces gradient compression and significantly higher skin surface pressures compared with an elastic compression stocking. Kline CN, Macias BR, Kraus E, Neuschwander TB, Angle N, Bergan J, Hargens AR. Published in Vascular, Volume 16, No. 1, 2008.

Summary: This study compared skin surface pressures underneath the inelastic CircAid® garment with Built-In Pressure System[™] set to 40 mmHg vs. an elastic 30-40 mmHg below-knee compression stocking. The CircAid® leggings produced significantly higher skin pressures than elastic leggings at both leg regions (p<.001). Mean pressures over all trials using the CircAid® leggings were 47±3 and 35±2 mmHg for ankle and below-knee regions, respectively. Mean pressures using the elastic leggings over all trials were 26±2 and 23±1 mmHg for ankle and below-knee regions, respectively. Only the CircAid® leggings produced a significant reverse-pressure gradient between the knee and the ankle (p<.05), whereas the elastic leggings did not.

³ INELASTIC COMPRESSION INCREASES THE HEALING RATE OF VENOUS ULCERS COMPARED TO MULTI-LAYERED BANDAGING

Comparison of elastic versus nonelastic compression in bilateral venous ulcers: a randomized trial. Blecken SR, Villavicencio JL, Kao TC. Published in Journal of Vascular Surgery, December 2005.

Summary: The completed study comparing 24 extremities shows that at three months, patients wearing the inelastic CircAid[®] system had significantly faster ulcer healing rates as compared to patients wearing a conventional four layer elastic compression system.

⁴ UTILIZING JUXTA-LITE[™] CAN REDUCE THE COST OF PATIENT CARE

Comparison of Costs and Healing Rates of Two Forms of Compression in Treating Venous Ulcers. RG DePalma, M.D., RK Spence, M.D., JA Caprini, M.D., MR Nehler, M.D., J. Jenson, D.P.M., MP Goldman, M.D. Published in Journal of Vascular Surgery, November 1999 Volume 33 Number 6.

Summary: The total cost of treatment was 38% less with the CircAid® Legging and this difference was statistically significant. Healing rates were 45% faster with CircAid® garment, though this value did not reach statistical significance because of large standard deviations. Presented at the eleventh annual meeting of the American Venous Forum, February 18-21, 1999 Dana Point, CA.

⁵ INELASTIC COMPRESSION IS SAFER FOR 24-HOUR USE COMPARED TO ELASTIC STOCKINGS

Intramuscular pressures beneath elastic and inelastic leggings. Murthy G, Ballard RE, Breit GA, Watenpaugh DE, Hargens AR. Published in Annals of Vascular Surgery, November 1994 Volume 8 Number 6.

Summary: Alan R. Hargens, Ph.D., physiologist and Space Station Project Scientist, in developing garments to combat the effects of microgravity in space on astronauts, directed two studies. The results of one study have been published in the Annals of Vascular Surgery, November 1994, entitled, "Intramuscular Pressures Beneath Elastic and Inelastic Leggings". The studies compared the effects of the inelastic CircAid® Legging and 30-40 mmHg elastic stockings on Intramuscular pressures (IMP) in soleus and tibialis muscles taken by catheter inserted pressure transducers. IMPs, which are more relevant to tissue nutrition and venous return than surface or subcutaneous pressures, taken on 10 healthy subjects, were significantly higher with the inelastic legging than with elastic stockings. During recumbency, elastic stockings produced high surface compression. The inelastic legging did not exert the same high surface compression, yet effectively generated high IMPs during standing and walking.

⁶51.2% OF PATIENTS ARE NON-COMPLIANT WITH MULTI-LAYER COMPRESSION BANDAGING

Predicting concordance with multi-layer compression bandaging. C. Miller, S. Kapp, N. Newall RN, G. Lewin PhD, L. Karimi PhD, K. Carville PhD, N. Santamaria RN. Published in Journal of Wound Care, March 2011 Volume 20 Number 3.

Summary: This study observed the relationship between patient and wound characteristics to concordance with multi-layer compression bandaging. Less than half of the patients (209) were concordant with multi-layer bandaging.

⁷ JUXTA-CURES[™] REDUCES TIME SPENT TREATING PATIENTS

Published in Handbook of Venous Disorders, 2nd Ed. Guidelines of the American Venous Forum, Pp. 303–308.

Summary: Data for the total number of patient visits is based on the established mean (average) time to heal a venous stasis ulcer, 5.3 months. Average time per visit data is based on timed bandaging sessions with a trained healthcare professional, experienced with each form of bandaging.

⁸THE JUXTA-CURES™ BUILT-IN PRESSURE SYSTEM™ HELPS PATIENTS WITH MIXED ARTERIAL-VENOUS DISEASE

Compression therapy in mixed ulcers increases venous output and arterial perfusion. Giovanni Mosti, MD,a Maria Letizia labichella, MD,a and Hugo Partsch, MD,b Lucca, Italy and Vienna, Austria. Published in *Journal of Vascular Surgery*, January 2012 Volume 55 Number 3.

Summary: This study showed that patients with mixed arterial-venous disease had improved venous pumping function with compression levels applied up to 40mmHg without impeding the arterial perfusion. The Juxta-CURES[™] BPS[™] system allows the user to adjust compression levels to 20-30mmHg or 30-40mmHg below this level.



Patent Information

⁹JUXTA[™] SYSTEM

US Patent 7,329,232 This CircAid[®] innovation features the Juxta-Lock[™] band system of the Juxta-Fit[™], Juxta-Lite[™], and Juxta-CURES[™]. Classic compression garment band system designs include straight overlapping bands, interlocking bands, or bands used in a combination with a loop or "D-Ring" to create tension within the garment to apply pressure to the limb. CircAid[®]'s patented juxtaposed band system, meaning the bands alternate and pass above and below each other, introduced many advantages. Instead of the traditional method of applying one band at a time, the juxtaposed band system allows the patient to apply 2 bands at once resulting in much quicker application. Rather than having to thread a band through an opposing band or D-Ring, or tuck it underneath an opposing band, the juxtaposed bands are effortlessly pulled by each other and secured. The juxtaposed band system also allows the bands to be pulled at an angle to further fine tune the garment's fit to each patient's unique limb shape, whereas classic band systems can only be pulled directly across the limb. Finally, if the garment becomes too tight or too loose in any area, the juxtaposed bands can easily be pulled and adjusted as needed compared to traditional overlapping systems that require multiple bands to be removed to access the bands that need readjusting.

¹⁰ BUILT-IN PRESSURE SYSTEM[™]

US Patent 6,338,723 This invention is the foundation of both the CircAid® Built-In Pressure System™ (BPS™) and Assured Gradient System. By measuring the amount of stretch in a compression garment wrapped around a limb of known circumference, the pressure applied to the limb can be predicted. The more tension that is applied to the garment, the further it stretches and greater compression is applied to the limb. Furthermore if the same tension is kept throughout the garment for a leg of increasing circumference, then gradient compression is obtained. These principles are incorporated into a patented simple to use system that gives patients and healthcare professionals the confidence they need with their compression therapy.

¹¹ JUXTA-CURES[™] COMPRESSION ULCER RECOVERY SYSTEM

US and Foreign Patents Pending This invention from CircAid® is intended for use in the treatment of Venous Stasis Ulcers.

Terms and Conditions

PAYMENT TERMS: Net 30 days

SHIPPING TERMS: All shipments are F.O.B. shipping point. Standard orders exceeding seven hundred dollars (\$700) after discounts receive FREE FREIGHT!

CUSTOM MADE AND SPECIAL ORDERS FOR MEDIVEN PRODUCTS: Please allow one to two (1-2) weeks for delivery. Custom orders and special orders are non-cancelable and non-returnable.

CUSTOM MADE CIRCAID® ORDERS: Guaranteed to be delivered five (5) days from the date of the completed order. Applicable freight charges apply.

RETURN POLICY: Merchandise may not be returned without a 'Return Authorization Number' issued by Customer Service.

TIME LIMIT RESTRICTIONS ON RETURN OF MERCHANDISE: Thirty (30) days for unused and restockable merchandise; Ten (10) days for damages, shortages, billing or shipping disputes.

APPLICABLE FEES:

- Defective merchandise will be replaced at no charge after evaluation. There is a twenty percent (20%) restocking charge on all merchandise returns; thirty percent (30%) restocking/reboxing fee if reboxing of merchandise necessary.
- A credit memo will be issued to your account for returns of non-defective, restockable merchandise.
- All amounts unpaid within thirty (30) days of invoice date are subject to finance charges at the rate of one-and-a-half percent (1.5%) per month on the unpaid balance. Also, all costs with collections and reasonable attorney fees will be borne by the customer in the event this invoice is placed for collection or suit is filed.

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Compression for the 21st Century[™]

For more information on Juxta-CURES[™] or to schedule a demonstration, please contact customer service by phone at (800) 633-6334 or by email at orders@mediusa.com.

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