WOUND CARE

THE POWER OF HEALING

Burn survivor J.R. Martinez draws on his life-changing experience to help others, and show the true value of making the most of every situation.

Be Prepared for any Burn Emergency with WATER-JEL Products.

With Over 25 years of burn care expertise, WATER-JEL is the world leader in emergency burn care products and a proud supplier to the U.S. Military, Fire, EMS and Formula One Motor Racing.

WATER-JEL also provides emergency burn care for you and your family at home. You can find Burn Jel Plus at your mass pharmacy and our new Unburn Sunburn Relief at Walmart.

Learn more at www.waterjel.com
The occurrence of chronic wounds is strongly correlated with diabetes, advancing age, and obesity.

Since the body is naturally programmed to heal itself, most wounds proceed toward healing in a timely manner. However, for certain wounds—millions of wounds in fact—the healing process is slowed, less well organized and may even come to a halt altogether, leading to what is termed a “chronic wound.”

The occurrence of chronic wounds is strongly correlated with diabetes, advancing age, and obesity: conditions that are all escalating rapidly in the United States. For example, the prevalence of diabetes has tripled over the last 30 years according to the CDC, and 15–25 percent of diabetics will develop a diabetic foot ulcer in their lifetime. The longer it takes for a wound to heal, the greater the likelihood of complications that can have a devastating effect on both patients and their caregivers, while leading to significant healthcare costs. Some of the serious consequences include infection, pain, osteomyelitis (bone infection), amputation and even death.

Setting new standards

For decades, the standard of chronic wound care in the United States has focused on balancing moisture levels in the wound and preventing infection. This usually means covering the wound with a dressing and making sure it is neither too wet nor too dry. Multiple studies have shown that such standard care heals chronic wounds only about 50 percent of the time—the same odds you have when flipping a coin.

Positive advancements

The encouraging news is there are two promising avenues of pursuit addressing the unmet medical need for more effective—and more cost-effective—approaches to the care of difficult-to-heal and chronic wounds. The first is greater awareness and understanding of chronic wounds and their complications, both within the medical community and amongst patients and their caregivers. The second, ongoing initiative involves harnessing the emerging scientific understanding of wounds and what causes them to become chronic. Already, several pharmaceutical and biologic therapies—those that work on chronic wounds at the cellular and molecular level—are on the market.

As a result, we can all look forward to innovations in science and greater access to education that, ultimately, will contribute to improved outcomes and quality of life for the patients and caregivers impacted by the growing burden of chronic wounds.

TRAVIS E. BAUGH, PRESIDENT & COO
HEALTHPOINT BIOTHERAPEUTICS

Epsom Salt. Practically a first-aid kit all by itself.
Soothes irritated skin caused by mosquito bites, bee stings, sunburn, poison ivy, oak and sumac. Visit epsomsaltcouncil.org to learn more.
CHRONIC WOUNDS NEED SPECIAL CARE

Chronic wounds are a serious and growing concern, especially for people with ongoing health issues, such as diabetes, cardiovascular disease and obesity.

The Wound Institute® is an interactive online resource, providing patients and their caregivers with targeted information and powerful tools to help them in managing difficult-to-heal and chronic wounds.

The information on our website was developed by independent experts to be highly engaging, yet remarkably easy to use. Our programs are available in both English and Spanish language versions.

This service is available to all patients and caregivers at no cost. You can get started now by visiting us at TheWoundInstitute.com®

The Wound Institute® is dedicated to advancing the care and treatment of wounds. We’re here to help.
Wound care specialists: Your best choice

“I wish I’d come here first.” At least three times a week, I hear those words from patients whose lives have been negatively affected by open wounds.

I feel both good and bad when I hear them: bad because the patient has suffered too long unnecessarily; good because I’ve helped improve someone’s quality of life.

I am passionate about the care we provide at our wound center because I’ve seen how debilitating it can be when a patient gets ineffective treatment. The young diabetic mother who feared an open wound would prevent her from ever having a normal summer vacation with her children; a woman who lived with a venous leg ulcer for 17 years.

Specialists make a difference

If you have a heart problem—go to a cardiologist. If you have lung problems—see a pulmonologist. If you have a chronic open wound—see a wound specialist. We are trained in techniques that allow us to bridge the gap between wound care and wound healing. We do not take a palliative approach to wounds; we heal them.

Every day a wound is open, the patient is exposed to bacteria and at greater risk for soft tissue infections. But specialists know how to tailor treatment, often reducing that exposure from months to weeks.

Better care for diabetics

I recently met a 54-year-old man who had pain and swelling in his left foot, and the situation was deteriorating. It turned out he had two diabetes-related communicative wounds that went from the top through the bottom of his foot. A runner and tennis player of healthy weight, he had no idea he had diabetes and was suddenly faced with a chronic disease and the possibility of losing his foot. But because he was treated by a team of surgical, infectious disease and nursing specialists, today his wound is closed and he has his life back.

That patient now knows what many people don’t: the mortality rate for diabetic foot wounds is higher than breast cancer and prostate cancer combined. Because diabetics’ bodies don’t have the capacity necessary to recover quickly, they are at greater risk for infection from even small cuts. But specialists have the crucial skills necessary to diagnose and close wounds quickly rather than just managing them.

I love my job because it’s rewarding to be part of someone’s healing. Every day I have the same goal: communicate with my patients in order to develop a personalized treatment. If they didn’t come to us first, I’ll make sure they’re glad they eventually did.

Marisa Jahnke, RN, BSN, BA, CWOCN is the Wound Care Manager of the Infectious Disease Services of Georgia.
Now I understand.

I didn’t think my diabetic foot sore was serious. But when I couldn’t even feel the pain, I knew something was wrong. Today, I learned it isn’t too late.

Find out how seeing a wound care specialist can help you. Visit [www.heal2gether.org](http://www.heal2gether.org) or call us at 888.234.3376.

Tell us about your diabetic foot sore on our online survey and receive a free pedometer.
Question: After being burned in combat, what inspires J.R. Martinez to dance, act, and motivate others?

Answer: He realized that life goes on, and that he now has another purpose in life.

Surviving and thriving: Serving a different purpose

When Army veteran J.R. Martinez was injured in combat, he felt like an opportunity had been taken away from him.

“I thought, what am I going to do with my life now?” he remembers. “But, by being able to go out there and actually be a voice and be an example to a lot of service members it gave me an opportunity to feel like I was serving again.”

Positivity
When asked what motivated J.R. to keep a positive outlook, he credits his mother first. “She told me there was life after this,” he recalls. “In school, growing up they tell you about this whole world. I thought to myself, right now I am in a low point. There has to be a high point. There has to be something better than this, and I just believed it.”

Treatment
J.R. was treated in the hospital for a year after his injury, and has fond memories of the members of his treatment team. “Burns aren’t like broken bones,” says Martinez, as he explains that burn survivors require continuous treatment even years after their original injury, which he sites as one fact that is not commonly realized by people who are not burn survivors themselves.

For example, J.R. received skin grafts on his hands. As a result he experiences a stiffness in his hands which requires ongoing medical attention and serves as a constant reminder of his injury. Everyday acts such as shaking hands can become painful.

Today
Stressing the use of the term burn “survivor” rather than “victim”, J.R. Martinez is quite busy setting a new standard of what it means to be a public figure and role model. With a resume that includes veteran, actor, and motivational speaker, he exemplifies what it means to overcome the odds and create new opportunities for oneself.

Apply it
Easy to apply because these dressings are available in large rectangular sizes and a variety of glove sizes appropriate for burn patients. AQUACEL® Ag BURN dressing with silver is powered by Hydrofiber® Technology, which transforms wound care by gelling on contact with exudate and contouring to the wound bed, limiting spaces where bacteria can thrive.¹

Leave it*
It has a potential 21-day* wear time so you may be able to leave it in place, avoiding the pain and trauma of frequent dressing changes. Because of its Hydrofiber® Technology it gels on contact with the wound, reducing pain while the dressing is in situ and helping to reduce pain and trauma upon removal.²

Help heal it
The dressing absorbs exudate and locks it away in the dressing with the harmful bacteria that can prevent healing.³⁴ Ionic silver is available delivering antimicrobial activity against a wide range of pathogens, including MRSA (as demonstrated in an in vitro simulated wound environment).⁵ And when the wound is healed, the dressing may simply fall away.⁶

There is no other burn dressing with a potential 21-day* wear time or the power of Hydrofiber® Technology.

Stop painful dressing changes!* AQUACEL® Ag BURN dressing may be left in place for up to 21 days. Clinical judgement is recommended to determine whether multiple dressing changes should occur during that period. Please see package insert for complete Directions for Use.

Find out more about AQUACEL® Ag BURN
Visit www.convatec.com

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Question 1:
What are the most exciting current advances in wound care?

**New DNA based technologies** are now available nationwide to determine exactly what microbes are attached to each patient’s wound, with no less than DNA certainty. It’s the first advancement of its kind in over 120 years, and it’s a real game changer. This level of specificity moves us to a true medical specialty, allowing us to objectively diagnose each wound and treat each patient individually.

**Wound care specialists** treat wounds with the urgency warranted because they understand that a patient with a diabetic foot ulcer has a higher risk of mortality than many cancer patients. It’s imperative to make a timely visit to a wound care specialist, who has access to advanced technologies such as DNA diagnostic testing. Your wound is a unique threat to your quality of life.

**Eating a well-balanced diet** and getting adequate nutrition is the most effective way to promote wound healing. Very high-risk patients may be candidates for intravenous nutrition. It is also important to keep the wound clean and dry with applying only a thin layer of ointment that is prescribed by the doctor.

**Changing dressings daily**, application of first aid ointments or creams prescribed by your physician, and following instructions provided by the first responders or healthcare professional will provide the best method for healing of most wounds. Keeping any wound clean and free from debris helps to prevent infection.

**Question 2:**
What can I do to improve my odds for complete wound healing and heal my wound faster?

**Believe it or not**, the latest advances and research on wound care focus on prevention. There are tons of high-tech creams, sprays and dressings to heal wounds; however, keeping the skin clean and free from moisture is one of the best ways to heal wounds. Repositioning the patient often to offload pressure on bony surfaces is also extremely important because it reduces friction.

**DNA guided personalized medicine comes to wound care. The future is now.**

What if your wound was treated with medications made just for you, and only you, based on DNA collected from your wound? That is personalized medicine and it is providing revolutionary benefits to patients worldwide.

While I could argue wound care is a leader in this field, applications for cancer therapy get most of the press. Without media focus, many clinicians and patients simply are not aware these powerful options are available nationwide says wound research clinician Dr. John P. Kennedy of South University in Savannah, GA.

**New tools, new expectations**

In a recent study (Journal of Wound Care) of approximately 1400 patients, the group that received DNA testing and personalized treatments were about twice as likely to heal their wounds compared to the group receiving traditional testing and treatment. Further, this group healed their wounds about 2 to 5 times faster.

**120 years too late**

All chronic wounds have one universal barrier to healing, bioburden, a term used to describe the bacteria and fungi attached to the wound surface. Typically wounds contain far more than a single species and combined they are a significant cause for delayed healing. To make matters worse, these microbes produce something called “biofilm”, which is hard to remove and highly resistant to traditional treatment.

For the last 120 years, medicine has relied upon traditional culturing for diagnosis of bioburden. Unfortunately, only about 5% of known microbes can be identified by culture, resulting in about 15% accuracy and poor outcomes for wounds.

Enter DNA science. The same DNA based technologies seen on your favorite CSI TV program to identify the guilty party are now employed to identify the comprehensive microbial census in wounds.

**We always recognized bioburden as a barrier** says Dr. Randal Wolcott, a leading Wound Healing Society specialist. “However, these new methods have shown us just how significant, with DNA level certainty. All chronic wounds have significant bioburden; therefore, this has been a real game changer for most all of our patients.”

**How it works**

Your treating clinician sends a small sample for microbial DNA analysis. Within days, the complete microbial census of your wound is reported, followed by unique treatment options designed and prepared on demand by experts which are specific for your wound.

“This is a big deal,” says Dr. Wolcott. “I don’t ever want to go back to wound care the way it was. Now we can evaluate, diagnosis, and treat. It’s modern medicine. No more trial and error for wound care.”

**For more information**
PathoGenius® is a certified complex (DNA) diagnostics lab and the market leader for this DNA guided approach.

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