



The art and science of biomechanics is truly the “heart and soul” of the podiatric profession, whether in the realm of custom foot orthotics, bracing, pain management, pediatric footcare, sports podiatry, OTC foot orthotics, footwear, gait analysis, geriatric treatment, or surgery. Here we present a sampling of both new and established biomechanics-related products and services available to the podiatric community.



StepCraft Premium Insoles: Over 60 Years of Biomechanical Perfection in Every Step

Northwest Podiatric Laboratory, an innovator in custom orthotics since 1964, introduces its latest offering: StepCraft premium insoles.

StepCraft isn't just an insole—it's a legacy of biomechanical expertise that transforms how people move and live. Crafted from six decades of experience and millions of custom orthotics, every curve delivers unparalleled support, stability, and performance.

Its ultra-thin composite shell foundation allows for a seamless fit in nearly any shoe, delivering an excellent balance of strength, lightweight design, and durability. Premium features, inspired by custom orthotics, include a deep heel cup, enhanced rearfoot stability, and an antimicrobial top cover for all-day freshness.

Available in three arch styles—LOW, MID, and HIGH—StepCraft ensures a perfect fit for daily wear or high-performance activities, with no compromise on comfort or function.

Proudly crafted in Washington State using US and imported materials, StepCraft upholds Northwest Podiatric Laboratory's mission: designing and delivering foot pain solutions for athletes, professionals, and everyday heroes.

Step into six decades of innovation with StepCraft premium insoles.

Healthcare professionals can offer StepCraft insoles in their practices now. Online sales begin Fall 2025. Visit www.stepcraft.com or [click here](#) to learn more and explore the science behind every step.

New SR1 and R2 Orthotics from NewStep

NewStep Orthotic Lab, Inc. proudly unveils the SR1 and R2 orthotics, designed to address a variety of foot conditions. As showcased in our latest advertisement, these custom orthotics simplify the ordering process, turnaround time and price.

The ****SR1**** features a semi-rigid 1/8" polypropylene, 1/2 length device, extrinsic heel post, and EVA top cover, offering versatile support for most foot issues. For those seeking enhanced stability, the ****R2**** provides a rigid 3/16" polypropylene, full-

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Free Orthotic Offer from KLM



KLM would like you to try their new **KLM 3D Printed Custom Orthotics for FREE!** Scan yourself with KLM's new app for iPhone: KLM Digital Casting 2.0 and KLM will send you a complementary pair of met length custom orthotics. This offer is valid for licensed practitioners, one pair per practitioner. Email cservice@klmlabs.com or [click here](#) that you saw this advertisement in *Podiatry Management* to get the unique login and password for this offer. Step into the future with KLM Lab's newest product line: HM 3D Printed Custom Orthotics.



Bridging Biomechanics and Patient Outcomes: The Role of Orthotic-Driven Footwear in Managing Overuse Injuries and Chronic Foot Conditions

With the increase of overuse injuries and conditions, supporting foot health through preventative care has become a priority for healthcare professionals and patients alike.

Recent trends show a concerning rise in foot injuries, including plantar fasciitis, tendonitis and stress fractures, often linked to unsupportive footwear. Orthopedic specialists highlight the importance of proper foot support in reducing repetitive strain. Orthotic shoes with footbeds designed with full-contact support effectively alleviate stress on critical areas of the foot and into conservative treatment protocols.

“Roughly 1 in 10 individuals will experience plantar fasciitis in their lifetime, making footwear not just a lifestyle choice but a pivotal part of treatment,” said Nicholas Pagano, DPM, Plymouth Meeting, Pennsylvania. “Footwear that mirrors the functionality of commonly prescribed orthotic devices, like the Yumi Sandal by Revitalign®, provides patients with an everyday option for foot health.”

Orthotic footwear also addresses biomechanical



Nicholas Pagano, DPM

concerns such as pronation and supination, which can affect gait and lead to chronic foot conditions. By stabilizing foot position and supporting key tendons like the posterior tibial and Achilles, orthotic footwear promotes long-term foot health.

While some orthotic footwear like the Yumi Sandal is not classified as a diabetic shoe, its built-in support and balance-stabilizing features make it beneficial for aging or diabetic individuals seeking

comfortable, supportive footwear for daily use. Additionally, full-contact orthotic footbed design helps distribute foot pressure evenly, potentially aiding in fall prevention and enhanced balance.

Orthotic footwear is a trusted tool for podiatrists and individuals seeking effective, conservative management for foot-related conditions. This type of footwear with proven orthotic benefits enhances accessibility to patient-friendly solutions for foot care.

For more clinical insights and to explore Revitalign® orthotic footwear, visit www.wacoshoecompany.com or [click here](#).

length design with an extrinsic heel post and EVA top cover. Both options include a plain option (shell only, no top cover) for customization.

Available now, order by calling

866-798-7463 or emailing sales@nsoinc.com. Visit newsteporthotics.com or [click here](#) for more details. Step into better foot health with SR1 and R2!

Custom and Prefabs from ProLab

ProLab Orthotics was founded by podiatrists for podiatrists. The lab has a long tradition of supporting the podiatry profession through grants, donations, education, and the highest quality products.

Orthotic therapy education has been a cornerstone of ProLab’s philosophy and success. Their medical consultants, Dr. Larry Hupp and Dr. Dianne Mitchell-Pray, are available to their clients to discuss challenging cases. The lab’s Biomechanics Director Dr. Kevin Kirby writes a monthly Biomechanics & Orthotic Therapy Newsletter highlighting many import-

ant topics and reinforcing concepts taught in podiatry school.

ProLab manufactures truly custom foot orthotics at their facility in Napa, California. The lab strives for the best possible outcomes for their patients. They also offer a full line of prefabricated foot orthotics. The P3 Adult prefabs are semirigid orthoses with a full depth heel cup, forefoot valgus correction, and medial heel skive. They are available with or without a rearfoot post based on your patient’s needs. ProLab’s Kiddythotics® are designed with a deep heel cup, medial flange, medial heel skive, and rearfoot post in a rigid shell, making them an excellent choice to treat pediatric flexible flatfoot.

For more information, visit prolab-orthotics.com, [click here](#), or call Client Services at (800) 477-6522. Lab tours are also available by appointment.