Technology at the service of customized insoles

Since a few weeks, our island can boast foot orthotics produced with high level technology. With the help of a computerized gait and pressure analysis system, the Sint Maarten Health Care Clinic added the fitting of customin shoes to their services.

Stationary vs. dynamic diagnosis

Normally orthotics (insoles worn in shoes) are ting or lying down. A normade after a diagnosis of mal person takes approxithe patient in a stationary position. However, it is sci-

pressure points of each individual are different when walking from when people are just in a standing position.

The high tech diagnostic system used at Sint Maarten Health Care Clinic (SMHCC) is called Footized insoles to be worn maxx. It captures dynamic steps and calculates normal foot function for the patient. The logic of a dynamic diagnosis is that pathology occurs while a person is in motion, not while sitmately 10,000 steps a day. It is abnormal foot function entifically proven that the that creates ongoing foot

and musculoskeletal conditions

At the practice of SMH-CC, patients will be asked to walk over a pad or foot scanner, which is provided with multiple sensors and will precisely measure the pressure points put by each foot. The foot scanner is connected to a computer, on which the patients will see a three dimensional, sophisticated analysis of their foot and way of walking.

With this information, orthotics can be made. Orthree to five years. They consisting of a meticulous

can be adjusted to any type of shoe.

oot maxx^{**}

After the scan has been made, the gait and pressure analysis are sent to the manufacturer with added notes from the orthopaedic manual therapist. It takes about one week for the clinic to receive the orthotics. A second consultation is scheduled in order to make any necessary ad-justments to the orthotics.

Professional assessment before foot scan

Patients that require an orthotic will first go through thotics have a durability of a full body assessment

examination of the spine, function and diabetes. pelvis, legs and feet. This is due to the fact that bad alignments can also be caused by joint problems in the spine. According to the professionals, it is better to treat the disorders in the spine first before making an accurate scan of the foot. It is also possible that after treatment of the spine, pelvis or hips, an orthotic is not needed, as the problem lies elsewhere in the body. At SMHCC, only orthopaedic manual therapists are making the scans, as they are more specialized in the examination and treatment of the spine.

The professionals attending the patients in this area are Debbie Feijen and Martijn Groot. Both graduated as physiotherapists in the Netherlands and both hold Master's degrees in orthopaedic manual therapy. Together they have more than five years experience in the field

Benefits from orthotics

"The decision to invest in the system Footmaxx was made after discussions with Dr. Bocher, orthopaedic surgeon at St. Maarten Medical Center, about the advantages of the footscan. The population of St. Maarten can take advantage of the opportunity of having an orthotic made in a much quicker and cheaper way than before, which can help them prevent and cure joint problems or other medical indications, such as rheumatism and diabetics" said Debbie Feijen.

Orthotics have a positive effect on the alignment of the foot. The alignment has a big influence on complaints of the lower extremities: hip, knee, ankle and the lower back. An orthotic creates a good basis for the foot that can have a positive effect on joints or joint problems. Medical research has also shown that orthotics can be used for many indications, for instance rheumatoid arthritis, heel spur, plantar fasciitis, metatarsalgia, sesamoiditis, hallux valgus, bunion, tarsal tunnel syndrome, posterior tibial dys

Diabetes affects a large percentage of the population on St. Maarten. Orthotics can have a preventative effect for wounds on diabetic feet and can even help to cure them by taking the pressure away from the wounds. On a long term basis, they can even reduce the large percentage of amputations that St. Maarten now has.

Also orthotics can be specifically designed for sports. All over the world, athletes are benefiting from custom-made sports orthotics. Orthotics improve the alignment of the foot thus reducing the risk of injuries and at the same time improving the performance of the athlete.

Most insurances will cover at least part of the expenses. Each individual should check with the insurance company to find out what the coverage is.

If you need more information, contact Sint Maarten Health Care Clinic, located at Welfare Road 15 in Cole Bay, telephone/fax 544-3568.



foot arch ankle and lower calf pain and inflammation in the toes back, hip and knee complaints pain and numbness in ball of foot pain/prevention of joint problems poor circulation sensation sport injuries and performance

