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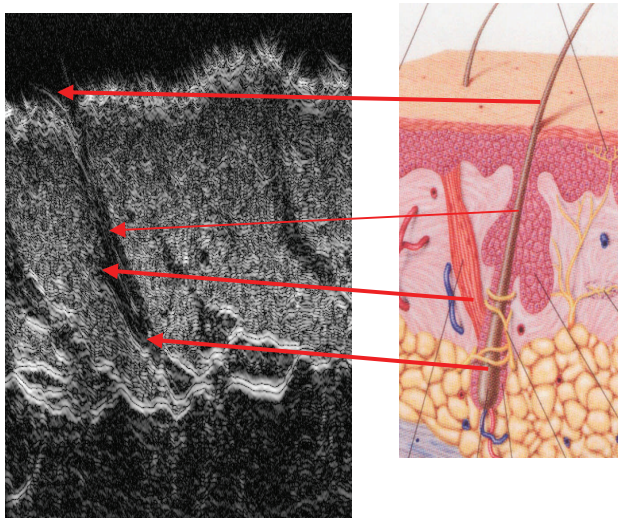
EPISCAN I-200 Dermatology

With today's society becoming more technology savvy, informed clients are requesting proof of worth in skin care products and aesthetic services before they commit and invest in skin rejuvenation and facial image enhancement programs. The EPISCAN can be an important tool in assisting the doctors with reviewing before and after results, and ensure procedures such as those used in treating skin cancer are applied in an optimum manner.

Applications include:

- Assessing skin aging
- Monitoring the impact of aesthetic procedures
- Skin cancer assessment

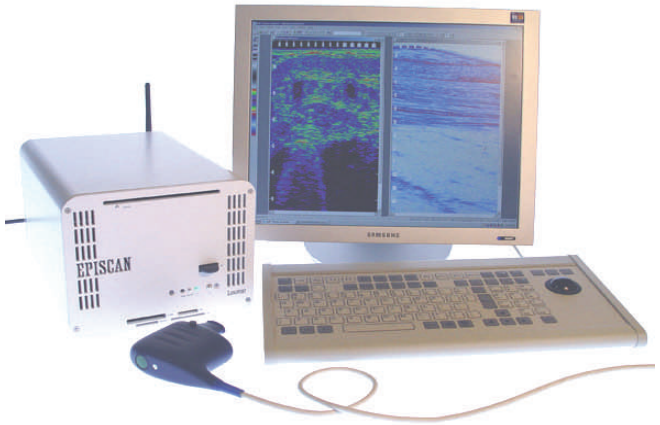


EPISCAN image of skin compared to schematic

How Does It Work?

Longport's EPISCAN ultrasound imaging system can image the dermal structure to high resolution and with great clarity enabling subtle changes in tissue structure to be visualized.

Due to our enhanced technology it is possible to visualize various conditions and diseases, determine the effectiveness of treatments, and help plan surgery. Importantly, changes before and after treatment can be compared both qualitatively and quantitatively, allowing the clinician and patient to see the impact of treatment programs often before visual impact can be seen.



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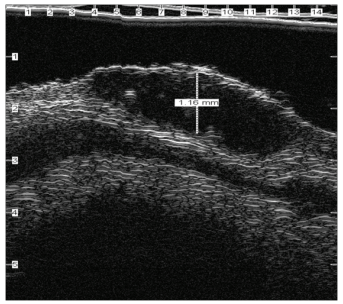
Skin Cancer Assessment

The accurate mapping of lesions can be used to establish more defined margins which will help to develop a more precise surgical plan. This can be utilized in several ways: when applied to Mohs surgery, it can be used to reduce the number of surgical sections needed to clear the margins of a lesion, leading to better utilization of clinician's time and facilities, reduce costs and lessen patient discomfort. When applied to conventional surgery, it will increase the probability that lesion margins are cleared, thus reducing the probability of tumor

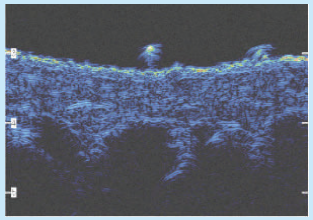


reoccurrence. Dependent upon the tumor size and type, the probability of a lesion reoccurring at an excision site is between 50 and 90% within a five year period.

One determining factor on whether or not a pigmented feature is a potentially malignant melanoma or merely a superficial skin discoloration is its depth of penetration. High resolution ultrasound has the potential to accurately map skin lesions, including providing data on their depth, enabling better surgical planning. Therefore, the EPISCAN can provide dermatologists with a rapid screening tool for the early detection of invasive pigmented features that require skin biopsies and can lessen the incidence of unnecessary biopsies.

Cellulite

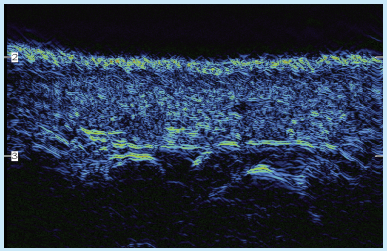
The EPISCAN will allow you to view cellulite. If you choose to go through treatments to reduce the formation of cellulite, the doctor's office will scan you prior to the initial treatment, then scan you periodically throughout the duration of the treatments to monitor cellulite reduction.



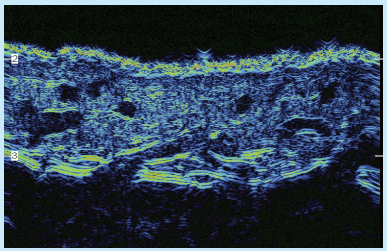
Initially, there may not be apparent visual sign of reduction, however, the EPISCAN will show improvement of cellulite taking place below the skin's surface. The picture above is a 35MHz image of cellulite. Notice how the dermis has scalloped edges.

Spider Veins

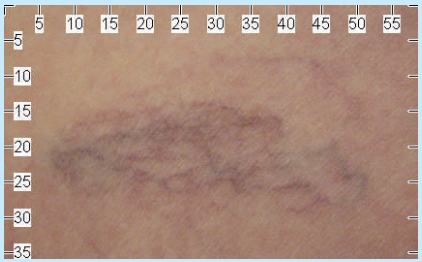
and other skin vascular structures



(Normal)



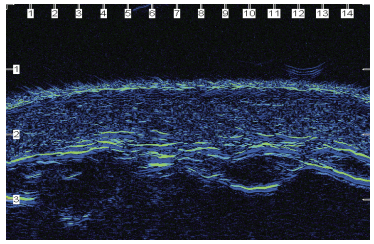
(Spider Veins)



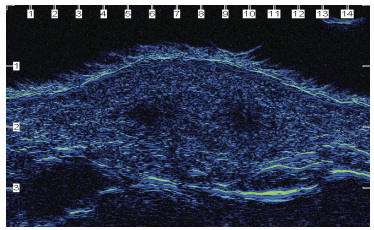
Photograph of Spider Veins

Fillers/Botox Treatments

These images show changes resulting from an interdermal injection. The EPISCAN helps to monitor the effectiveness of therapy and provides evidence to the client the impact the procedure had on their skin. When such treatments are in the form of injectables, the EPISCAN can guide clinicians to the targeted dermal plane.

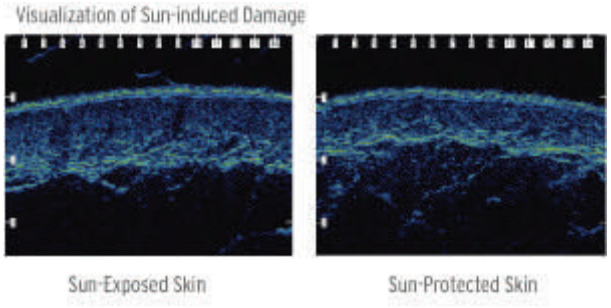


Pre-Injection



Post-Injection

Skin Rejuvenating Treatments



You can see the increased thickness of the dermis in the sun exposed image compared with the sun protected area. Also, note the reduced intensity of reflections of the dermis in the sun exposed area, indicating a weaker collagen structure. The scan can provide an image that reveals an increase in hydration, fiber plumpness, and progressive activation in collagen production.

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