How DermaBlade® Setting the Standard of Care for Shave Biopsy & Lesion Removal

Effective skin health management relies on the precise identification and removal of cutaneous anomalies. For too long, clinicians have been constrained by the limitations of traditional tools for these procedures. Recognizing the critical need for a superior solution, we collaborated with leading dermatologists to engineer the AccuThrive DermaBlade— a device designed to deliver optimal handling, precision depth control and cleaner incisions for improved patient outcomes.

The DermaBlade introduces three key advancements:

- **An Ergonomically Engineered Handle:** Designed for safety and superior control to minimize slippage and sharps injuries.
- **A Flexible Blade Arc:** Allows for intuitive depth control, enabling clinicians to adapt to tissue contours and preserve healthy tissue.
- **A Coated Blade Edge:** Ensures precise incisions and uniform wound closure for optimal cosmetic results.

This innovative approach has resulted in a 98% clinician approval rating and a consistent track record of excellent patient outcomes. [1]

Limitations of Traditional Shave Biopsy and Lesion Removal Tools

Historically, clinicians have depended on a limited set of tools—primarily #10 and #15 blades, curettes and non-sterile double-edge razor blades. Each presents significant clinical shortcomings, from poor grip and unstable platforms to an inherent lack of depth control, often leading to inconsistent results and patient concerns.

Proven Efficacy, Enhanced Safety

The AccuThrive DermaBlade represents a paradigm shift in superficial skin surgery.
By directly addressing the safety and precision limitations of traditional tools, the DermaBlade empowers clinicians with unparalleled control. The result is a new standard of care that consistently delivers superior clinical results, enhances clinician safety and improves the patient experience.

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Why DermaBlade?

Class 1
FDA

Superior Performance & Control

Boasts a 98% clinician approval rating, with 86% rating blade flexibility as important/very important and 80% rating DermaBlade's flexibility as very good/excellent. [I]

OSHA Compliance & Sharps Safety

Meets OSHA's Bloodborne Pathogens Standard requirement for safety-engineered sharps, helping practices reduce the risk of costly sharps injuries (affecting ~385,000 US hospital workers annually, with an average cost of $4,352 per incident). [II,III,IV]

Sterility & Regulatory Compliance

Unlike standard non-sterile double-edge razor blades, DermaBlade is a Class I FDA-compliant medical device, ensuring sterility and significantly reducing patient infection risk.

Enhanced Safety & Ergonomics

Unique, ergonomic turret-style finger grips that rotate and tighten with use, providing superior control and stability during procedures.

Dermatologist-Designed Precision

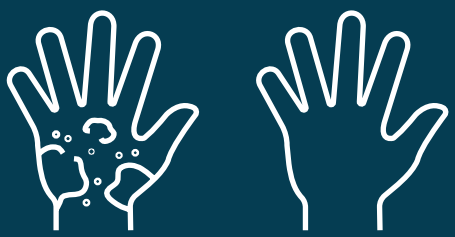
Based on dermatologist expertise for the design, the DermaBlade is engineered for safety and surgical precision, enabling a smooth glide through tissue for clean excisions.

Clinical Versatility

Ideal for diverse procedures including shave biopsies at any dermal level, removal of moles/warts/skin tags, saucerization and levelization. Its flexible design adapts to various anatomical sites for clinician and patient comfort.

Enhanced Durability

MicroCoat technology is a protective shield that creates a blade that stays sharper for longer and ensures peak performance. This enhanced durability is highlighted when taking samples from multiple sites on a single patient.



Efficient Wound Management & Reduced Follow-Ups

Facilitates closure often without sutures. Hemostasis is typically achieved simply with aluminum chloride and an adhesive bandage, saving time, reducing costs and potentially eliminating follow-up visits.

Greater Control & Flexibility

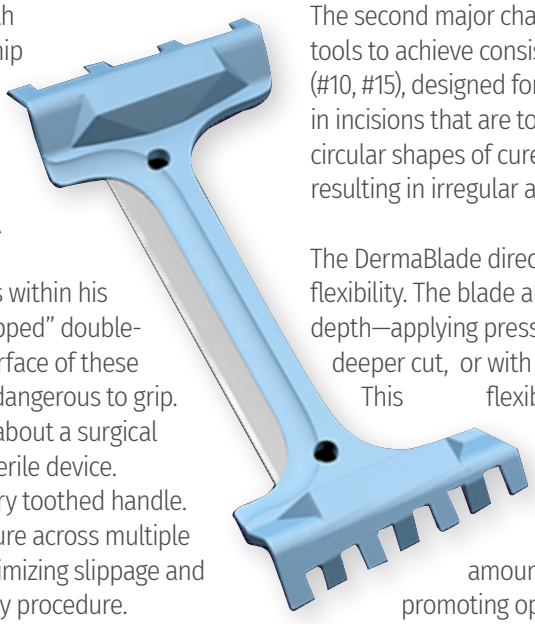
Offers wider finger grips for enhanced control, greater flexibility (bends >50% without breaking) and requires less pressure for tissue penetration.

The Clear Choice for Shave Biopsy

The DermaBlade isn't just a tool—it's a clinical upgrade. With its **unmatched safety, control and performance,** it empowers dermatologists and physician assistants to deliver better outcomes with greater confidence.

Development of the AccuThrive DermaBlade: A Clinician-Inspired Solution

The development of the DermaBlade was driven directly by clinical challenges. After consulting with dermatologists, we developed a partnership with Dr. Robert Segal of Arizona and identified two primary areas for improvement: safety and precision.



Enhancing Clinician Safety and Procedural Control

Dr. Segal reported frequent sharps injuries within his practice, a direct result of staff using "snapped" double-edge razor blades. The small, unsteady surface of these snapped blades made them difficult and dangerous to grip. Furthermore, patients expressed unease about a surgical procedure being performed with a non-sterile device.
To address this, we developed a proprietary toothed handle. This ergonomic solution distributes pressure across multiple anchoring points, maximizing control, minimizing slippage and ensuring a stable, sterile platform for every procedure.

Achieving Unprecedented Depth Control and Precision

The second major challenge was the historic inability of traditional tools to achieve consistent depth control. Standard surgical blades (#10, #15), designed for cutting rather than shaving, often result in incisions that are too deep or too shallow. Similarly, the static, circular shapes of curettes often fail to conform to the surgical site, resulting in irregular and misshapen incisions.

The DermaBlade directly solves this challenge through its versatile flexibility. The blade allows clinicians to intuitively modulate cutting depth—applying pressure to the handles to flex the blade for a deeper cut, or with a lighter touch, maintain a superficial wound. This flexibility integrates seamlessly with the standard "rocking motion" technique, enabling a shallower depth at the incision's edges and a deeper one at the center. This dynamic control is critical for preserving the maximum amount of healthy tissue, which is fundamental to promoting optimal healing.

Cutting Edge MicroCoat® Technology for Optimal Incisions

MicroCoat Technology is an advanced, multi-layered coating process applied to a blade's cutting edge to dramatically enhance its performance, durability and safety. This proprietary surface engineering technique is refined for the extreme precision required for surgical blades.

The process adds a microscopic, ultra-thin, yet incredibly tough layer of material to the underlying blade metal. This coating fundamentally changes how the blade interacts with biological tissue. It provides:

Unmatched Sharpness and Durability

Even the sharpest blade dulls with use as microscopic imperfections on its edge bend or fracture—a process known as "edge retention" loss. MicroCoat acts as a protective shield, combining different material properties to create a blade that stays sharper for longer and ensures peak performance.

Ultra-Smooth Lubricity for Less Tissue Resistance

Friction during cutting can cause a blade to "grab" or "tug" at tissue instead of slicing cleanly. This often requires the surgeon to apply more force, which can lead to less controlled incisions and increased post-procedural trauma. MicroCoat creates an exceptionally smooth, low-friction surface that allows the blade to glide through tissue with ease.

Superior Corrosion Resistance

Surgical blades are consistently exposed to moisture, blood and saline, which can cause corrosion. This rusting can degrade the blade's sharpness and introduce contaminants to a wound. MicroCoat provides a seamless, protective barrier that shields the underlying steel from these corrosive agents.

Without MicroCoat, a blade is simply a piece of sharpened metal prone to dulling, friction and corrosion.

With MicroCoat, the blade is transformed into a longer-lasting, smoother-gliding, and corrosion-resistant instrument. This technology facilitates optimal incisions—cleaner, straighter and more controlled cuts that promote better clinical outcomes.

ACCUTHRIVE
AccuTec Medical Division

I Internal Data, DermaBlade Market Assessment ACBC, January 2024

II https://www.cdc.gov/infection-control/hcp/sharps-safety/index.html

III https://www.govinfo.gov/content/pkg/PLAW-106publ430/html/PLAW-106publ430.htm

IV https://www.danielshealth.com/knowledge-center/cost-needlestick-injury#:~:text=In%20the%20US%2C%20the%20estimated,on%20inflation%2Dadjusted%20research)

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