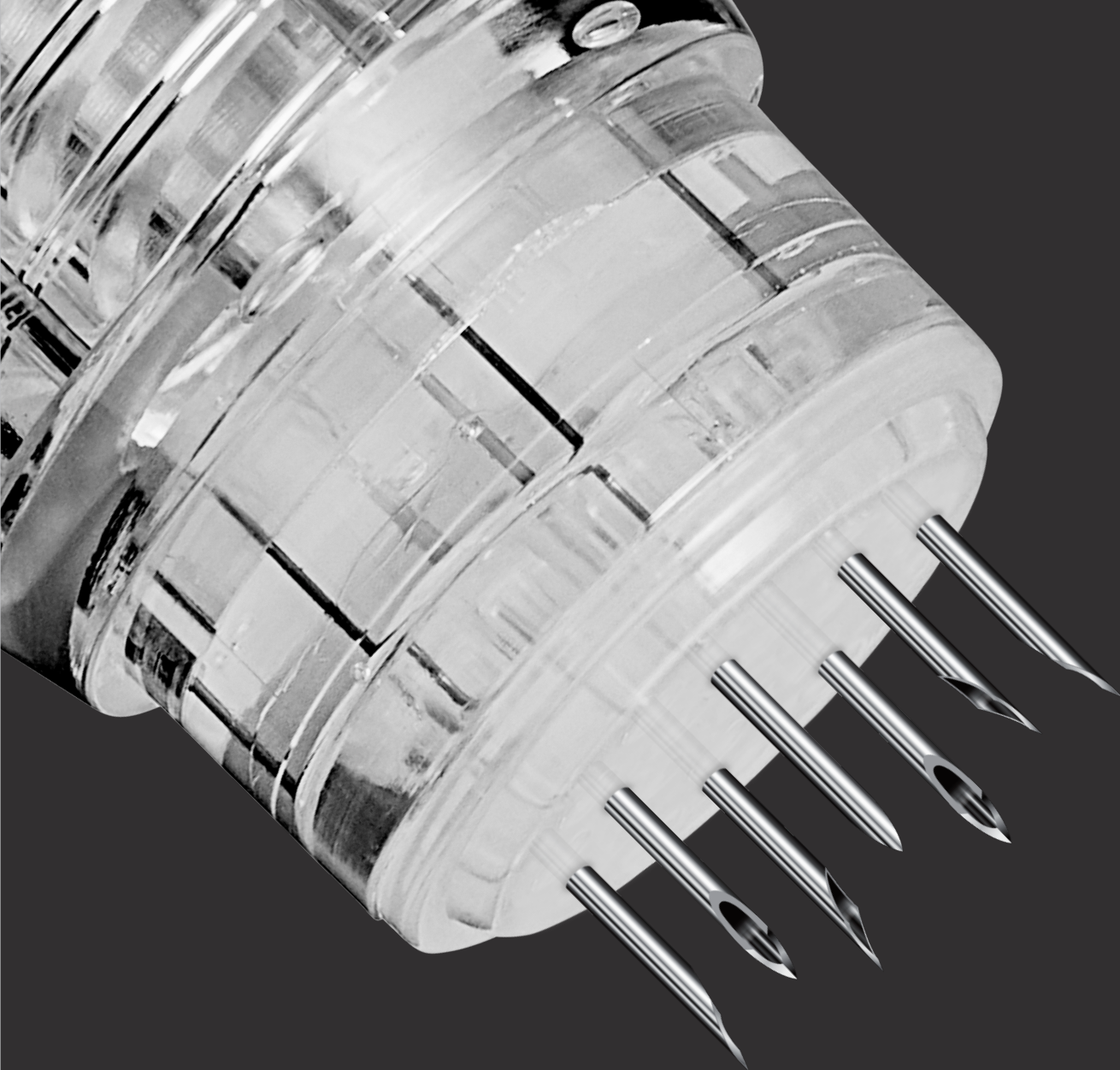




TURTLEPIN[®]
HYPODERMIC MULTI-NEEDLES

Perfect Precision in every shot



Professional



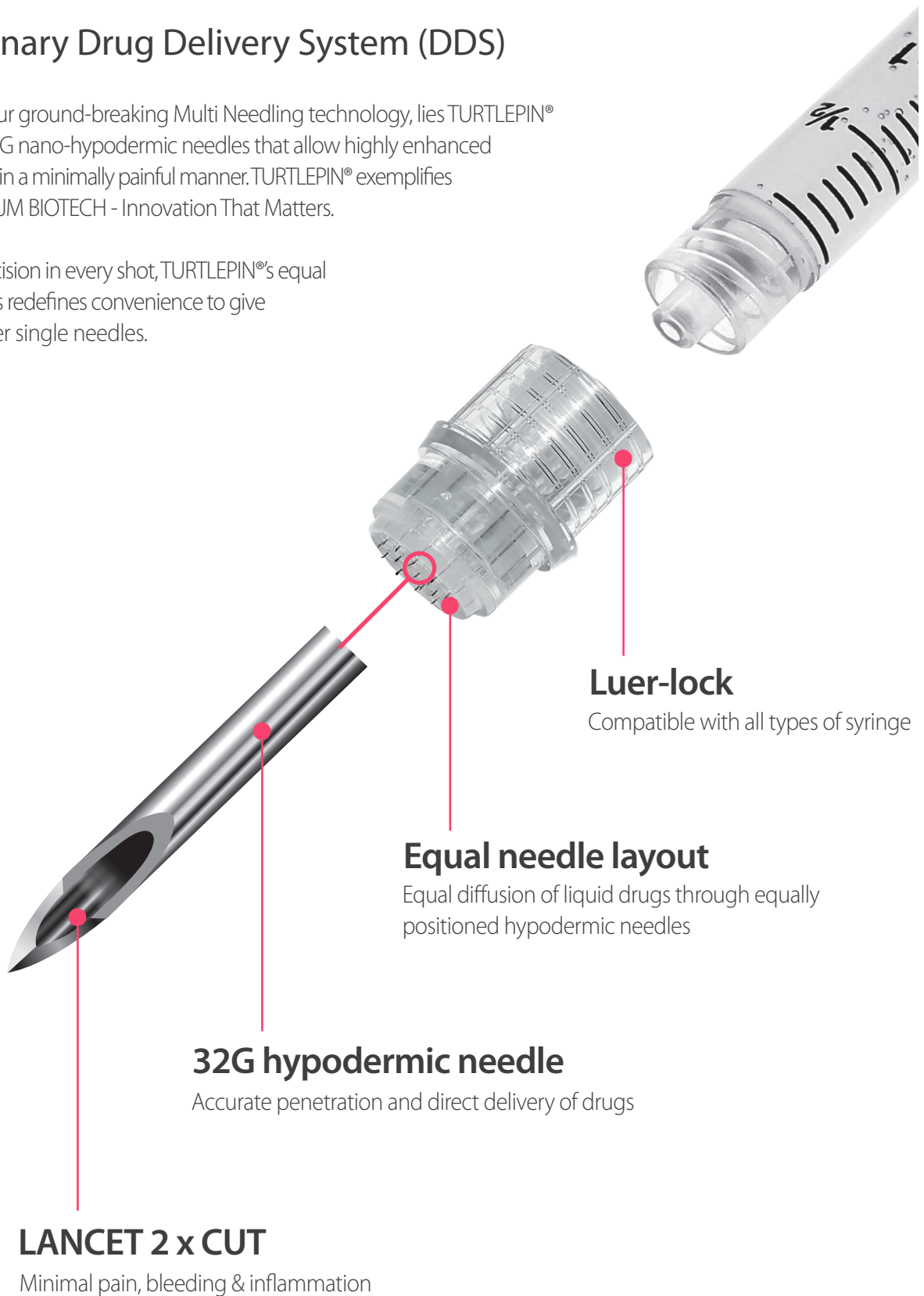
JM BIOTECH
INNOVATION THAT MATTERS

Multi Needling Technology

Revolutionary Drug Delivery System (DDS)

At the heart of our ground-breaking Multi Needling technology, lies TURTLEPIN® comprising of 32G nano-hypodermic needles that allow highly enhanced skin permeability in a minimally painful manner. TURTLEPIN® exemplifies the core spirit of JM BIOTECH - Innovation That Matters.

With perfect precision in every shot, TURTLEPIN®'s equal diffusion of drugs redefines convenience to give you an edge over single needles.



Experience the Superiority over Single Needles

Shorter procedure time by

3x

Evenly distributes

6x

more solution in a single shot

Parameter (3cc)	TURTLEPIN®	Single Needle
Number of shots	35 times	120 times
Number of needling	175 – 666 spots	120 spots
Procedure duration	3 minutes	10 minutes
Dosage per needle	0.005 - 0.012 cc	0.015 – 0.03 cc
		

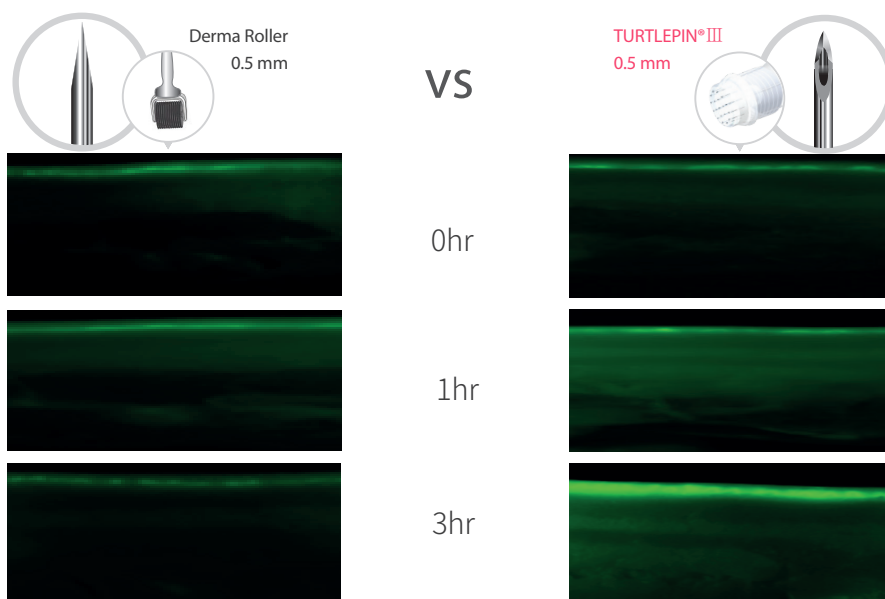
Clinically Proven Efficacy

15x

higher absorption

rate compared to Derma Roller.

Mesotherapy-roller VS TURTLEPIN® III penetration rate comparison ¹⁾

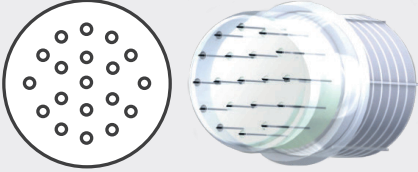
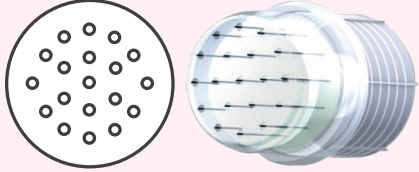
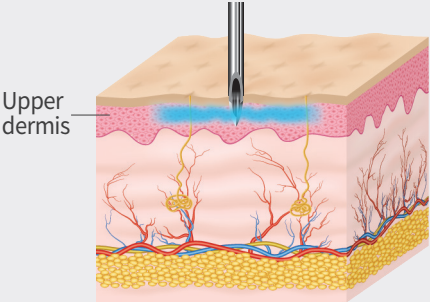
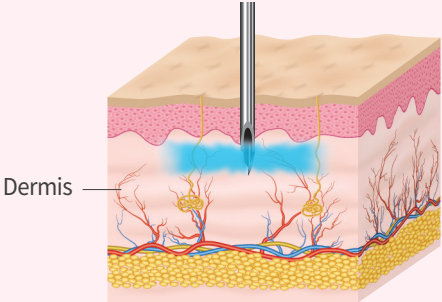


Specimen : Porcine skin eGFP (2mg / ml) in PBS

¹⁾ Korea Research Institute of Bioscience & Biotechnology (KRIBB, 2015), Comparison study of TURTLEPIN® III and mesotherapy-roller.

INTRA-DERMAL STIMULATION

Wide & Immediate Diffusion of Drugs

0.5 mm / 19 needles		1.0 mm / 19 needles
	Type	
	Penetration Depth	
• Meso Therapy • Skin Booster More effective delivery of injectable drug to upper dermis than conventional MTS.	Application	• Alopecia (Scalp) • Exosome • Skin Booster • Hyaluronic Acid (Non-cross Linked) • PDRN, PN

Trusted by dermatologists across the world



TURTLEPIN is one of the best needles I have. It makes the treatment much easier and saves time. The thicker the consistency of the liquid (serum) the easier it is to insert into the target area.

Dr Theressia, MBIomed (AAM), Anti-aging Medicine, Indonesia

Less painful specially for sensitive skin. We use the 2mm or 3 mm injector for mesotherapy.

Dr Radu Pitulea, Specialist in Dermatology, Venerology and Aesthetics, Romania

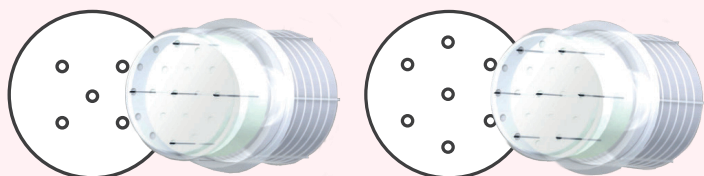


Scan to watch detailed procedure videos

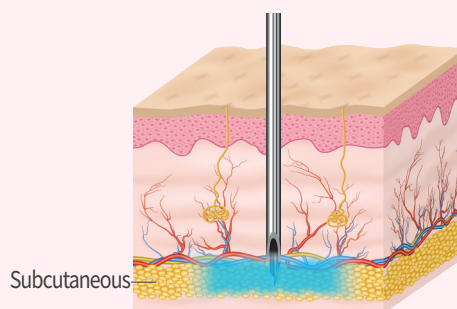
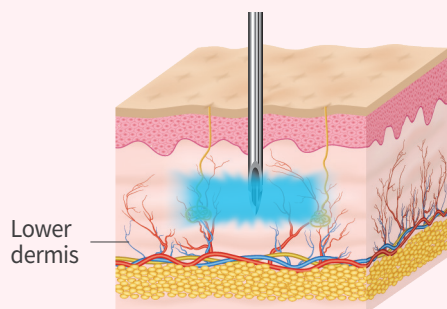
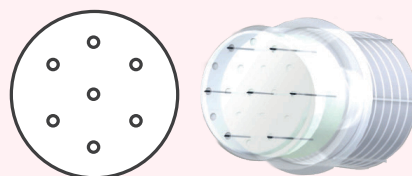
TRANS-DERMAL INJECTION

Accurate Multi-injection at Once

2.0 mm / 5 needles, 7 needles



3.0 mm / 7 needles



- Alopecia (Injection)
- Acne / Scar / Keloid
- PRP (Face)
- Hyaluronic Acid (Non-cross Linked)

- PRP (Hair)
- Lipo-Lysis Injection
- Steroid (T.A)



Aging



Acne



Keloid



Vitiligo

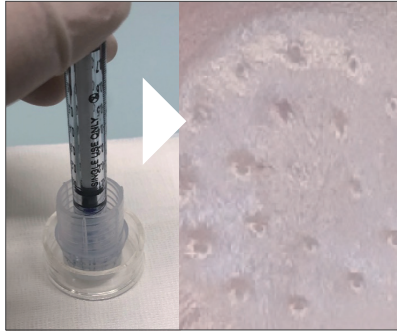


Scalp

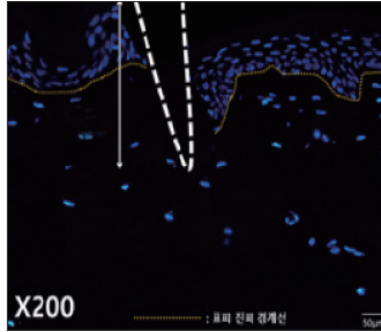
TURTLEPIN® III (0.5mm, 19 needles) can be used as a drug delivery system to evenly penetrate the epidermis and reach the dermis.

TURTLEPIN® III A direct trans-dermal injection test²⁾

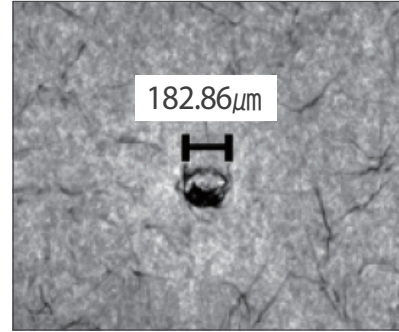
Specimen : Reconstructed human full-thickness skin model



Before / after injection of TURTLEPIN® III to KeraSkin-FT



Surface of KeraSkin-FT after injection of TURTLEPIN® III

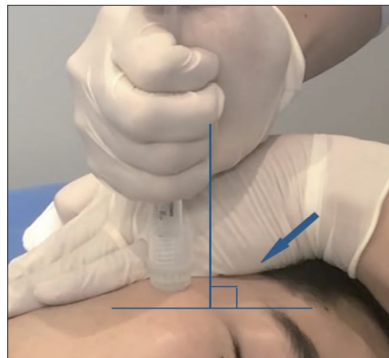
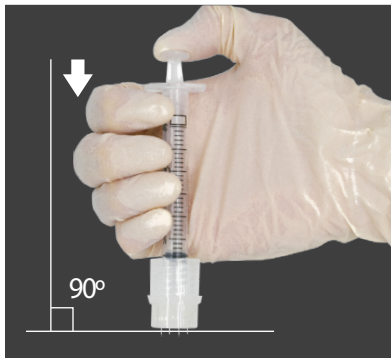


Stained KeraSkin-FT after injection of TURTLEPIN® III

2) LEE Su-hyeon, D. Eng (2020), A direct trans-dermal injection test in a reconstructed human skin model with TURTLEPIN® III

Tip

Inject quickly and accurately to the target layer with a vertical grip.



Packaging

20 EA / 1 Box (Sterile individual packaging)



www.ttpneedle.com



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