

Temperature Controlled Injectable Radio Frequency





In the News















What is Thermi*Tight*

ThermiTight FAQs

Photo Gallery

In the News

ZIP CODE G

GO

AS FEATURED IN THE MAY ISSUE OF ALLURE MAGAZINE

READ MORE

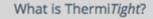












How Does it Work?

What's the Downtime?

How Long Does it Last?



Thermi*Tight* is the first aesthetic procedure, which delivers controlled thermal energy under the skin to reverse the effects of aging. Thermi*Tight* is ideal for patients who want more results than non-invasive procedures can deliver and DO NOT want surgery. It's great for problem areas of the face, neck, tummy and thighs.

road more

CLINICAL ADVISORY COUNCIL



- ✓ Unique-Peer to Peer Scientific Exchange Panel
- ✓ Major input by the Clinical Advisory Council Members
- ✓ CAC members are experienced with diverse clinical/ technical expertise





CLINICAL ADVISORY COUNCIL

Brian Kinney, MD - Chairman

- Board Certified in Plastic Surgery
- Member, Board of Directors, American Society of Plastic Surgeons (ASPS)
- Past Chairman, Board of Trustees, ASPS
- Past President, Plastic Surgery Educational Foundation (PSEF)
- Past Member, Board of Directors, American Society for Aesthetic Plastic Surgery (ASAPS)
- Deputy Secretary General, Member, Board of Directors, International Confederation of Plastic, Reconstructive and Aesthetic Plastic Surgeons (IPRAS)
- Specialty Editor, Aesthetic Plastic Surgery Journal
- Past Chairman of the Board of Directors, National Endowment for Plastic Surgery



\$1,100,000

Younger (25-40) \$20,000 In-between (40-60) \$30,000 Older (60-80) \$50,000 \$100,000

Referrals

Younger (10) \$200,000 In-between (10) \$300,000 Older (10) \$500,000 \$1,000,000



Lifetime Value of Cosmetic Patient

- ✓ Non-invasive treatments don't work for me!
- ✓ I don't want surgery!
- ✓ I want faster and longer lasting results!
- ✓ I want to look natural!



Patient concerns...

Problem Solved: Every time you hear these concerns, you can earn \$3,000-6,000?

Non-invasive < THERMIRF > Surgery



Single Treatment Results
Without surgery

- ✓ Great Results
- ✓ Easy to Perform
- ✓ More Revenue



The First Injectable \mathcal{RF}

Thermistor regulated radio frequency

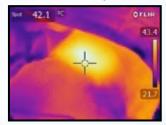
- Thermal Image Guidance for improved safety and predictable outcomes
- ✓ Temperature as endpoint

Patient Benefits

- ✓ Micro-invasive
- ✓ Local anesthesia
- √ Fast recovery
- ✓ Long lasting results



Surface Temperature



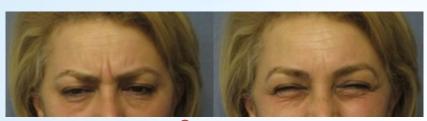
Tissue Temperature







User-selected, temperature-specific clinical endpoints to safely treat...



Frown Lines 85°C



Arm Laxity 60°C



Submental Laxity 55⁰C



Abdominal Laxity



65⁰C



Aesthetic Applications

Injectable \mathcal{RF}





toxin-free glabella relaxation



ThermiRF is cleared by the FDA for dermatologic and general surgical electrocoagulation and hemostasis, and for creation of lesions in nerve tissue.

Non-invasive

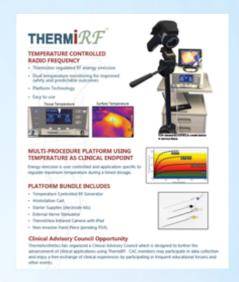




TEMPERATURE CONTROLLED RADIO FREQUENCY

"The Science of Heat"
Use temperature as an endpoint

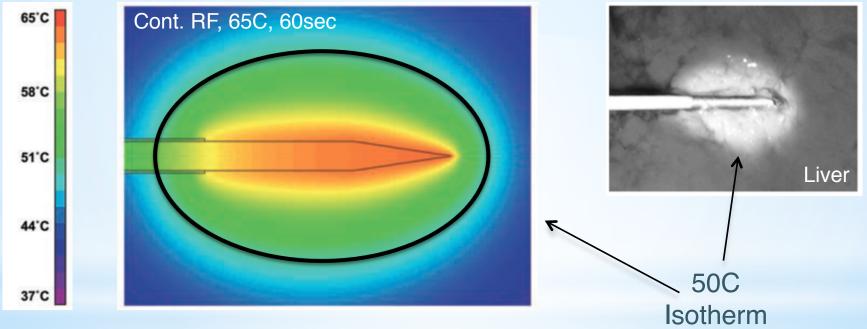
- ✓ Smooth skin @ 42C
- ✓ Shrink fibrous septae @ 55-65C
- ✓ Melt fat @ 70C
- ✓ Disable nerves @ 85C



How it Works



How THERMIRF Works



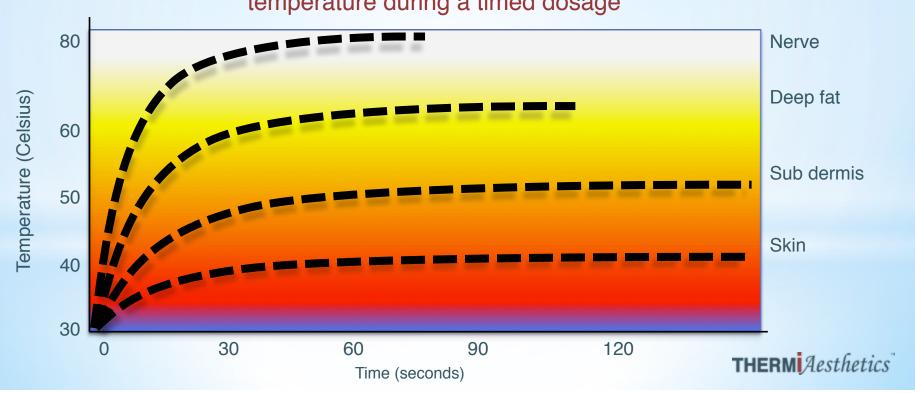
The Thermal and Electrical Effects on Tissue in CRFL Applications

It is generally agreed that raising tissue temperature above the "lethal temperature range" of $T \ge 45-50$ C for 20 seconds or more will destroy cell structures and bio-molecules. Thus, it is useful to know in the CRFL case the expected dimensions of the 45-50C isotherm volume

Cosman, *Electric and Thermal Field Effects in Tissue Around Radiofrequency Electrodes* Pain Medicine Vol. 6, No. 6, 2005

How THERMIRF Works

Energy emission is user controlled to regulate maximum temperature during a timed dosage





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ORIGINAL ARTICLES

JOURNAL OF DRUGS IN DERMATOLOGY

Comprehensive Thermoregulation for the Purpose of Skin Tightening Using a Novel Radiofrequency Treatment Device: A Preliminary Report

Douglas J. Key MD

Key Laser Institute for Cosmetic Regenerative Medicine, Portland, OR

ABSTRACT

Background: Radiofrequency-induced heating of dermal and subdermal tissue promotes skin contracture; however, the temperature threshold for inducing an epidermal burn is lower than the therapeutic temperature thresholds required for collagen remodeling, and therefore, there is the possibility of epidermal burn. Herein, we evaluate a radiofrequency treatment that provides novel real-time subdermal and epidermal temperature monitoring.

Methods: A retrospective chart review of 18 subjects undergoing thermistor-controlled subdermal skin tightening via percutaneous radiofrequency was conducted. During the treatment, epidermal temperature was concurrently monitored by a handheld infrared laser thermometer and a forward looking infrared camera system and peak temperatures readings were reported and evaluated.

Results: Mean temperatures of 43.6 and 38.2°C were reported for the infrared camera and infrared thermometer. The Bland-Altman plot analysis reported a bias of 5.38°C and 95% limits of agreement between 0.60 and 10.15°C. Additionally, the mean difference or bias of 5.38°C was statistically significant (*P*<0.0001).

Conclusion: Our preliminary data supports a superior form of thermoregulation for the purposes of skin tightening that integrates continuous subsurface and epidermal temperature monitoring.

J Drugs Dermatol. 2014;13(2):185-189.

thetics

CHALLENGES IN SKIN TIGHTENING

Can you apply extreme temperatures to sub dermal tissues to effect tightening while preserving integrity of epidermal tissue?

50-70°C – sub dermis

41-43°C - epidermis



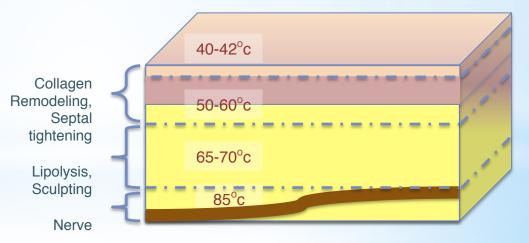




CHALLENGES IN SKIN TIGHTENING

How to best focus delivered energy on the targeted depth of desired tightening?

- ✓ skin dermal collagen?
- ✓ septal collagen?
- ✓ fat?
- or more deeply, for structural lift fascial collagen?







Subdermal Temp 60°C



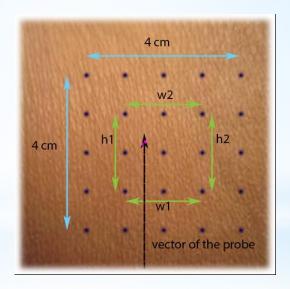


Tissue Tightening Study

John Ferguson, MD Honolulu, Hawaii

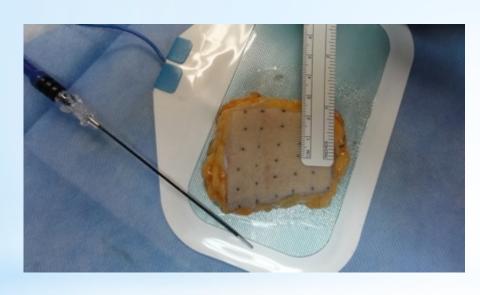
48 Tissue Samples

- √ 4cm x 4cm grid
- Each treated 1 pass @51C internal, 41C external
- ✓ Avg. Surface Reduction of 23% from 4cm² to 3.08cm²
- ✓ 2nd pass only yielded 2-3% additional reduction (n=27)









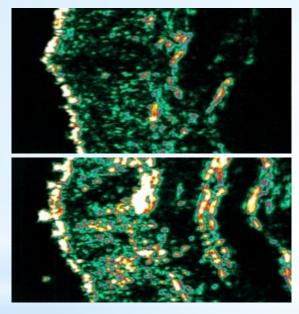
Effect on skin-30% surface area reduction

Diane Duncan, MD

3D contraction effect

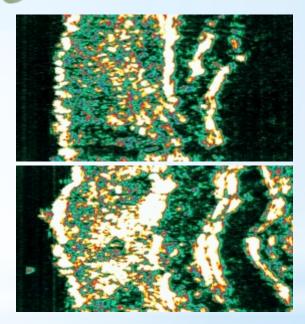


Effect on fascia—50% reduction of surface area



Before/after 30 days 25db Ultrasound

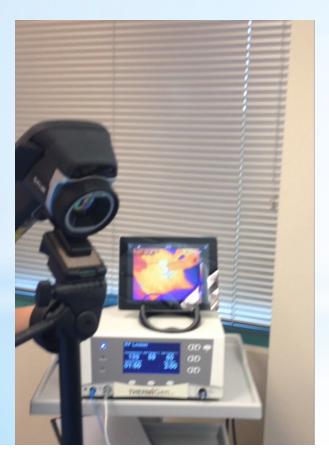
Denis Branson, MD

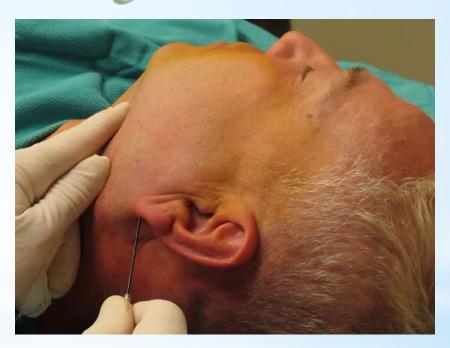


Before/after 30 days 30db Ultrasound



Dr. Leonard Miller





Slow radial movement to cause immediate sub dermal tightening (50-60C) and maintain safe skin (<42C)

THERMIAesthetics

THERMITight[™]

Injectable \mathcal{RF}









Dr. Leonard Miller



73 patients
were asked
"would you
recommend
this
procedure?"

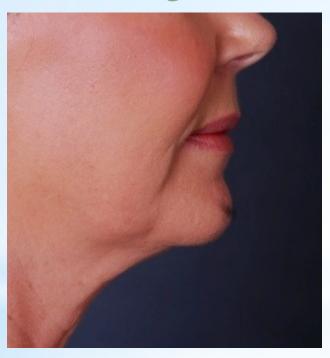
93% YES







THERMITight*



Greta McLaren, MD

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Transmission (1997) (19

42yo 60C, No Lipo 50 days post



Key Laser Institute for Cosmetic Regenerative Medicine www.KeyLaserInstitute.com



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Brock Ridenour, MD

THERMITight*

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Neck only, NO LIPO 55°C, 6 mos





thensive Thermoregulation for the Purpose of Skin ing Using a Novel Radiofrequency Treatment Device: A Preliminary Report

55yo 60°C, 14ml Lipo 60 days post



Key Laser Institute for Cosmetic Regenerative Medicine www.KeyLaserInstitute.com



THERMITight



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Temp set to 55C, 4 passes to each side of neck, 2 passes to each lower cheek area (2 min passes). Max skin temp 39.4 (right cheek), 41.4 (left cheek), 40.9 (right neck), 41.8 (left neck); 13cc lipo



Injectable \mathcal{RF}



Roxanne Sylora, MD

8 weeks post

THERMITight*

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Suzanne Yee, MD



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James Gallo, MD



Injectable \mathcal{RF}





THERMI Tight

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55C, 8 min/arm w/Lipo 3 Months

Richard Fisher, MD

THERMITight[™]



Karen Harkaway, M.D.

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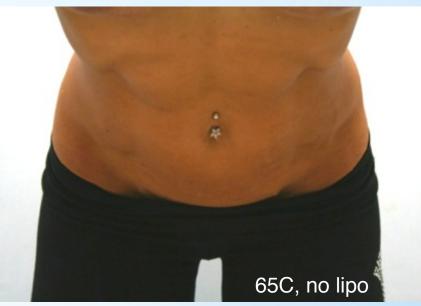


4 months 70C, 2 passes, max skin temp 38C, no lipo **THERM** *Aesthetics*



Injectable \mathcal{RF}





G. Robert Meger M.D. 4 months

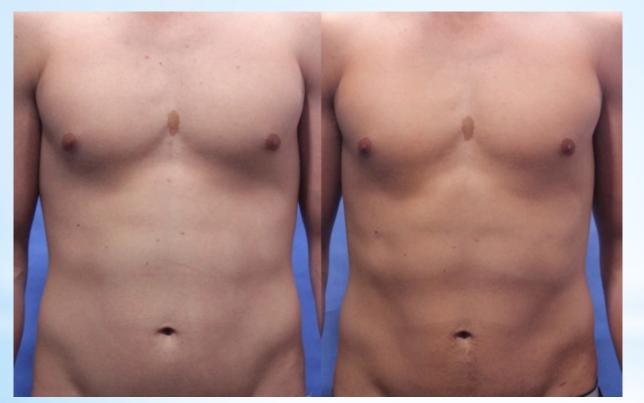
THERMI Tight

Injectable \mathcal{RF}





G. Robert Meger M.D. 1 tx Dec 15th, After taken 4/22





Hi-def etching 65C + hi-def lipo 5 Months

Curtis Perry, MD







2 Months

THERMITight

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Karen Harkaway, MD



One month post



Injectable \mathcal{RF}







THERMITight



Karen Harkaway, MD

Injectable \mathcal{RF}



One month post

THERMI Tight



Injectable \mathcal{RF}





Injectable \mathcal{RF}



Brian Kinney, MD





TEMPERATURE CONTROLLED RADIO FREQUENCY

- ✓ Temperature Controlled RF Generator
- ✓ Re-usable non-invasive RF applicators





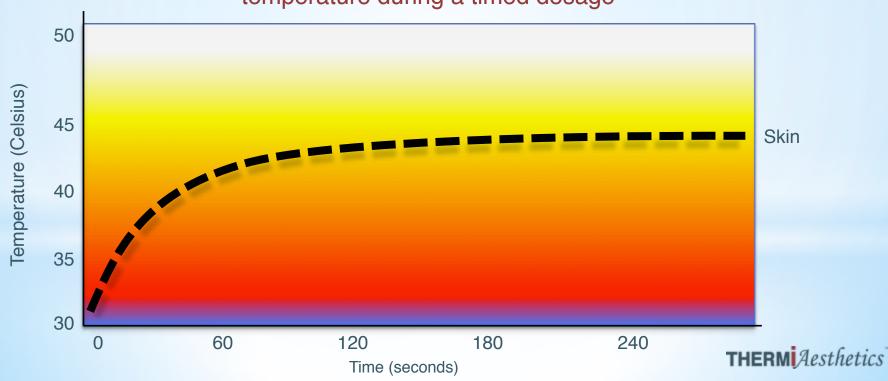
NON-INVASIVE TEMPERATURE CONTROLLED RADIO FREQUENCY

- ✓ 10mm Re-usable noninvasive RF applicator
- ✓ Treatment Range of 35-45°C
- ✓ Fine lines, skin laxity, smoothing



How THERM Smooth Works

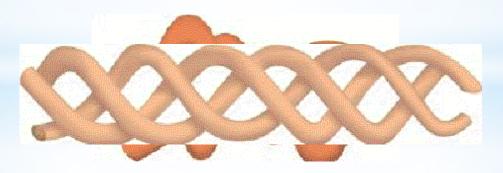
Energy emission is user controlled to regulate maximum temperature during a timed dosage



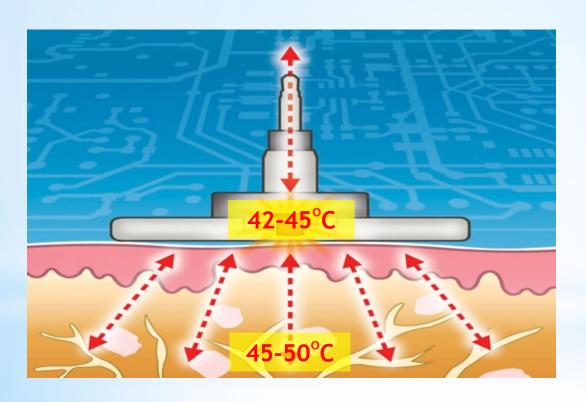
How THERMI Smooth Works

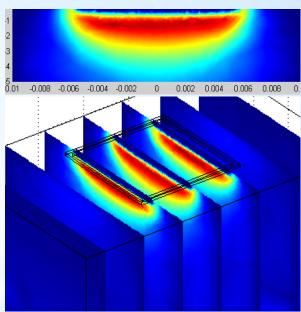
HEATING OF THE DERMIS PROMOTES 3 DIFFERENT KINDS OF EFFECT:

- *IMMEDIATE CONTRACTION OF COLLAGEN
- *IMMEDIATE COLLAGEN REMODELING AND ELASTICITY
- *LONG TERM STIMULATION IN PRODUCING NEW COLLAGEN



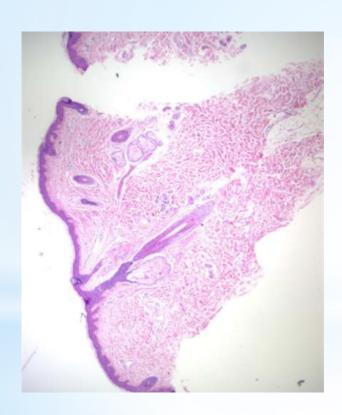
How THERM Smooth Works

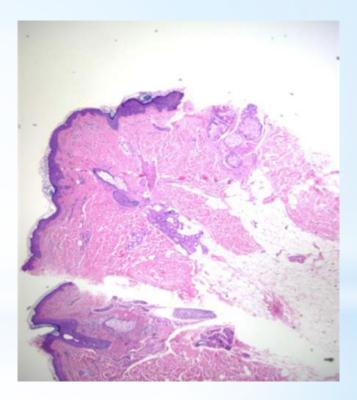




Therapeutic depth is ~40% of diameter of tip

How THERM Smooth Works









42°C, 7 min/eye Lower lid 2 tx @ 3 wks Upper lid 1 tx @ 3 wks



50mHz ultrasound done before treatment and after the second treatment (day of the 3rd Tx). Note the increase skin thickness and improved skin quality (increased blue/green echoes).

Denis Branson, MD





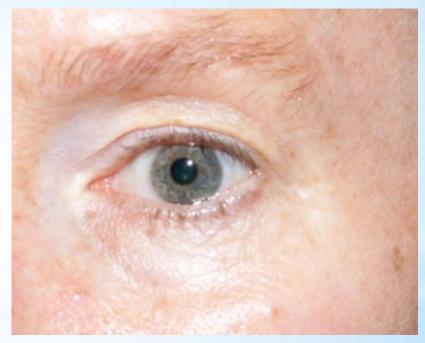
reduction of upper and lower eyelid laxity, and lines

42°C, 5 min/eye
2 weeks post 2 treatments
of the upper lids,
3 treatments of the lower
lids.

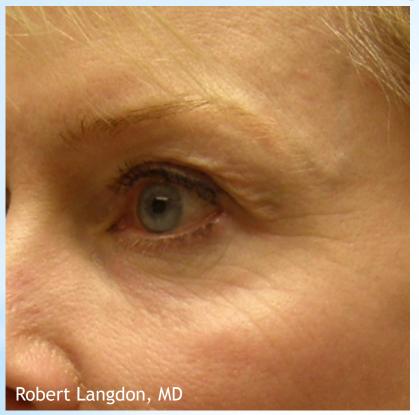
Denis Branson, MD



Jean Keamy, MD



After 5 treatments @ 2 weeks 42°C, 8 minutes per eye





51yo female; 2 weeks after 3 treatments @ 2 weeks 42°C, 6 min - upper lid/eyebrow (superior to outer canthus), 3 min - lower lid





Treatment of "cupid's bow"

One treatment @ 3 weeks

44°C, 12 min each side

Denis Branson, MD

Good Medicine

- ✓ use temperature as an endpoint
- ✓ dual temp monitoring/infrared imaging
- ✓ Safe and predictable results

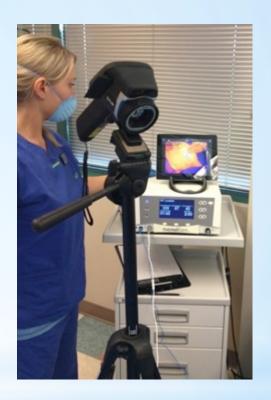
Easy to Perform

- ✓ Micro-invasive (18/22ga probes)
- √ Tumescent or local anesthesia
- ✓ Less than 1 hour

Makes Money

✓ ~\$3-4,000 per hour





Benefits

Patients want

- ✓ To delay a major procedure
- ✓ An effective, one time treatment
- ✓ I ittle down time
- ✓ Long lasting results

Physicians want

- ✓ To differentiate their practice
- ✓ To meet the needs of the broader market
- ✓ Have a small capital outlay
- ✓ Fast ROI (Avg \$3,000 per procedure)



