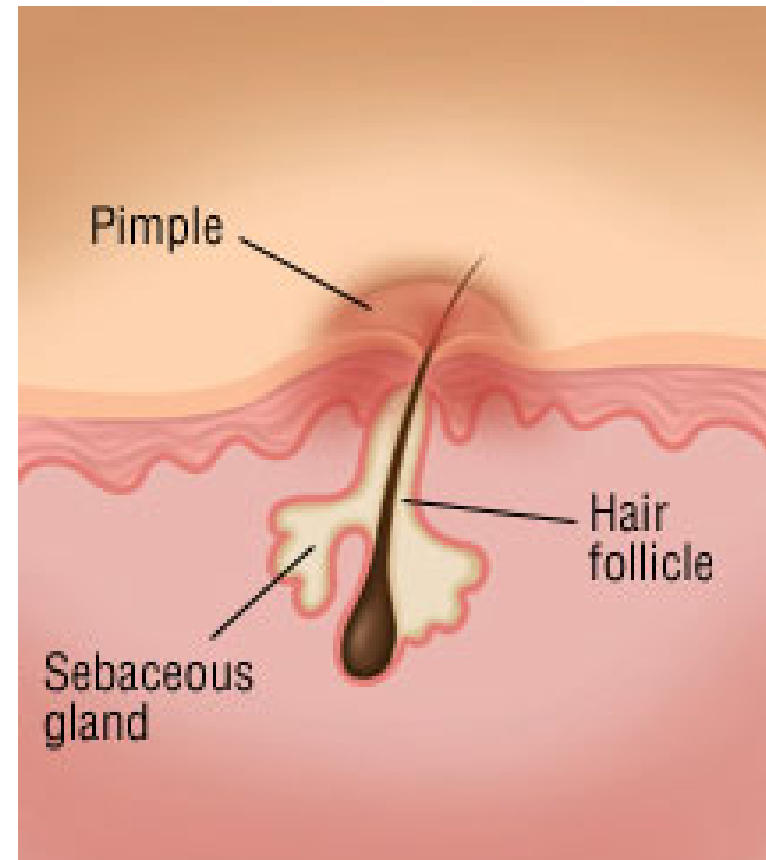


ERIN HENNESSEY
DNP, APRN

EMERGING TREATMENTS IN THE TREATMENT OF SKIN AND MUCOSA

ACNE

- - Acne vulgaris is a common chronic skin disease involving blockage and/or inflammation of pilosebaceous units (hair follicles and their accompanying sebaceous gland).
- - Acne can present as noninflammatory lesions, inflammatory lesions, or a mixture of both, affecting mostly the face but also the back and chest.

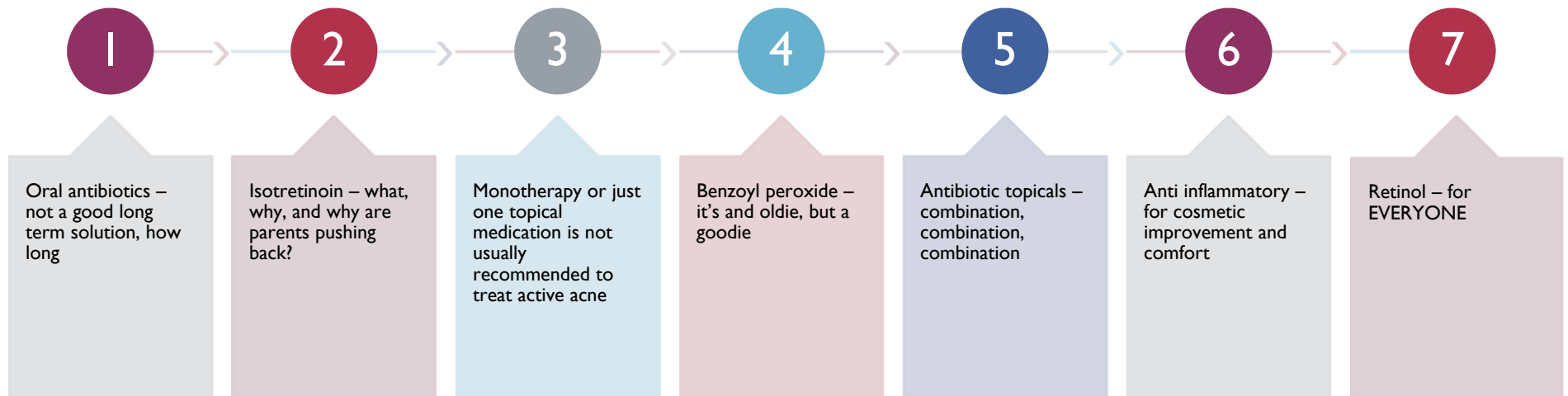




ACNE

An equal opportunity nuisance

ORAL AND TOPICAL MEDICATIONS



IF IT AINT CHEAP...

- PurGen Pharmacy – GenRx Connect
 - GenRx2U.com
 - Or 1-844-436-7928
 - Commercially insured patients - \$0
 - All others uninsured - \$25
- Adapalene (Differin)
 - BenzePrO foaming cloths and creamy wash
 - Clindamycin Phosphate topical 1%
 - Doxycycline Hyclate and Monohydrate
 - Minocycline
 - Tazarotene cream 0.1%

**WOMEN: SHAMPOO FOR
DRY DAMAGED HAIR**



**MEN: 6 IN 1 SHAMPOO FOR
FACE, HAIR, BODY, FLOOR,
CAR, DISHWASHER**



DOXYCYCLINE

- IN GENERAL, GUIDELINES RECOMMEND 3-6 MONTHS OF THERAPY WITH CONCOMITANT TOPICAL RETINOID
- Take it with food despite the label, why?
- IN THE PIPELINE – THERE ARE ONGOING STUDIES THAT ARE TRIALING OMEPRAZOLE FOR THE TREATMENT OF ACNE IN PLACE OF DOXYCYCLINE: in vitro antibacterial effects against staphylococcus aureus and anti-androgen that can be potential **treatment** of **acne vulgaris**.

NEW KID ON THE BLOCK



Altreno 0.05% lotion



Relatively similar MOA as Retin A or tretinoin, but may be better tolerated due to the vehicle.



Mechanism of action: Tretinoin is a metabolite of vitamin A that binds with high affinity to specific retinoic acid receptors located in both the cytosol and nucleus. Tretinoin activates three members of the retinoic acid (RAR) nuclear receptors (RAR α , RAR β , and RAR γ) which act to modify gene expression, subsequent protein synthesis, and epithelial cell growth and differentiation. It has not been established whether the clinical effects of tretinoin are mediated through activation of retinoic acid receptors, other mechanisms, or both. Although the exact mode of action of tretinoin in acne treatment is unknown, current evidence suggests that topical tretinoin decreases cohesiveness of follicular epithelial cells with decreased microcomedone formation. Additionally, tretinoin stimulates mitotic activity and increased turnover of follicular epithelial cells causing extrusion of the comedones.



Lets talk receptor sites and routine...

WE ARE AN IMMEDIATE GRATIFICATION SOCIETY



But this is America! I want it now!



FOREVER CLEAR BBL™

TREATMENT 1: 420 NM FILTER, 6 J/CM², 240 MS, 15 °C COOLING, 3 PASSES; 560 NM FILTER, 15 J/CM², 15 MS, 20 °C COOLING, 1 PASS

TREATMENT 2: 420 NM FILTER, 7 J/CM², 240 MS, 15 °C COOLING, 3 PASSES; 560 NM FILTER, 15 J/CM², 15 MS, 20 °C COOLING, 1 PASS

TREATMENT 3: 420 NM FILTER, 4 J/CM², 240 MS, 15 °C COOLING, 3 PASSES; 560 NM FILTER, 15 J/CM², 15 MS, 20 °C COOLING, 1 PASS



FOREVERCLEAR® BBL



FOREVERCLEAR® BBL



SCARS AND SCAR MANAGEMENT: HALO AND MICRONEEDLING



FOREVERCLEAR® BBL



Forever Clear BBL™

Parameters: 1st pass 420 nm filter, 5 J/cm², 150 ms, 50% overlap, 15 °C cooling, 2 passes
2nd pass 560 nm filter, 15 J/cm², 180 ms, 50% overlap, 15 °C cooling, 3 passes



FOREVERCLEAR® BBL



CHEMICAL PEELS, OXYGENEO, SILK PEEL DERMALINFUSION





**VOLUMIZES
SKIN BY 70%**

3-IN-1 TECHNOLOGY SIMULTANEOUSLY

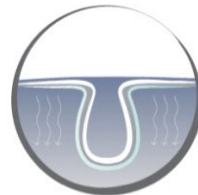
EXFOLIATES
REMOVAL OF DRY,
DAMAGED SKIN CELLS



EXTRACTS
DEEP CLEANSING OF SKIN
SURFACE AND PORES



INFUSES
DELIVERY OF CONDITION-
SPECIFIC SERUMS DEEP
INTO THE SKIN



**WHY
DERMALINFUSION?**

GENERAL CARE

- Washing your face twice daily and after working out
- Moisturizing
- Following treatment instructions
- Balanced diet
- Sanitizing sports equipment
- Keeping hands away from acne prone areas
- Hydration
- Sunscreen, sunscreen, sunscreen



DIVA FOR WOMEN

A NEW APPROACH TO VAGINAL WELLNESS



WHAT ARE THE PROBLEMS? WHY ARE THEY OCCURRING?

- Pre and postmenopausal women are looking for solutions
 - 25 million women agonize over urinary incontinence
- Prevalence of stress urinary incontinence in general populations reported in 13 different studies
 - Young adult, 20% to 30%
 - Middle age, 30% to 40%
 - Elderly, 30% to 50%
- Body changing events
 - Vaginal childbirth
 - Menopause

HEM1

Slide 21

HEM1 As many as 1 in 3 adults—more than 80 percent of them women—
have bladder control issues²

Hennessey, Erin M, 6/20/2018

VAGINAL ATROPHY

Vaginal dryness ranges from about 4% in early premenopausal to 47% in late postmenopausal¹

- In postmenopausal phase, prevalence is close to 50% due to decreasing levels of estrogen²
- In subgroups such as breast cancer survivors, vaginal dryness is present in 23.4% of premenopausal patients and in 61.5% of postmenopausal patients³

Dyspareunia affects 10-20% of US women and varies by age group⁴

- Post partum dyspareunia is underreported, 41% and 22% at 3 & 6 months post⁵
- Dyspareunia is a common presenting symptom in women with vaginal atrophy⁶

FACTORS THAT AFFECT VAGINAL HEALTH

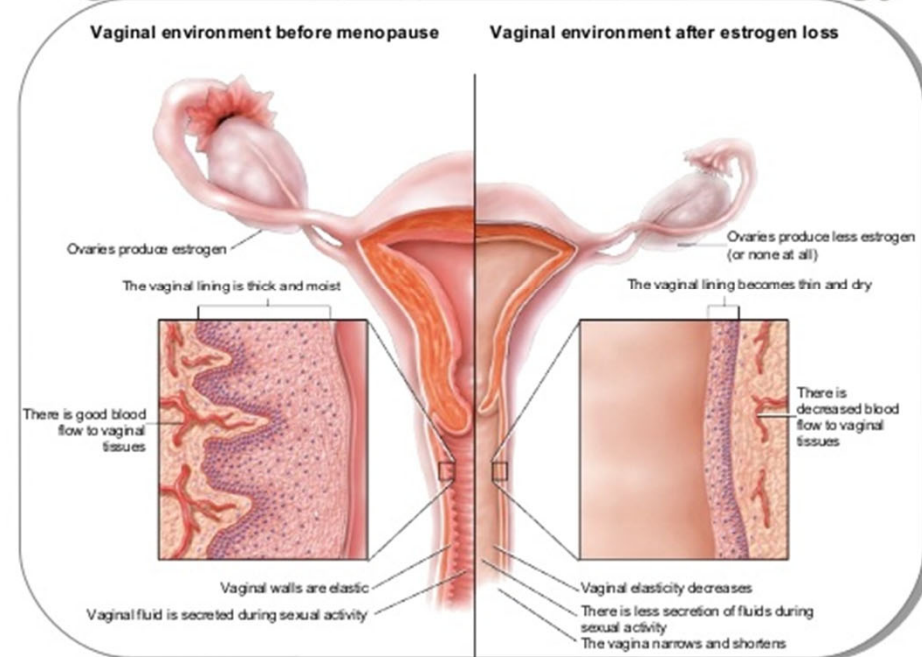
- Childbirth stretches the vaginal canal and surrounding tissues
- Tissue injury is magnified if labor or delivery is difficult or prolonged
- Relaxation or atrophy of vaginal walls and surrounding tissues can lead to diminished vaginal health and function



MENOPAUSE

- May lead to reduced estrogen production by the ovaries
 - Also a hysterectomy, chemotherapy, or the process of breast-feeding
- Often leads to thinning, drying and inflammation of the vaginal walls
- For many women, vaginal atrophy decreases healthy vaginal function and a reduced quality of life
- Vaginal atrophy is now called Genitourinary Symptoms of Menopause (GSM)

Vaginal Atrophy: Pathophysiology



Johnston SL. *Geriatrics & Aging*. 2002;5(7):9-15.

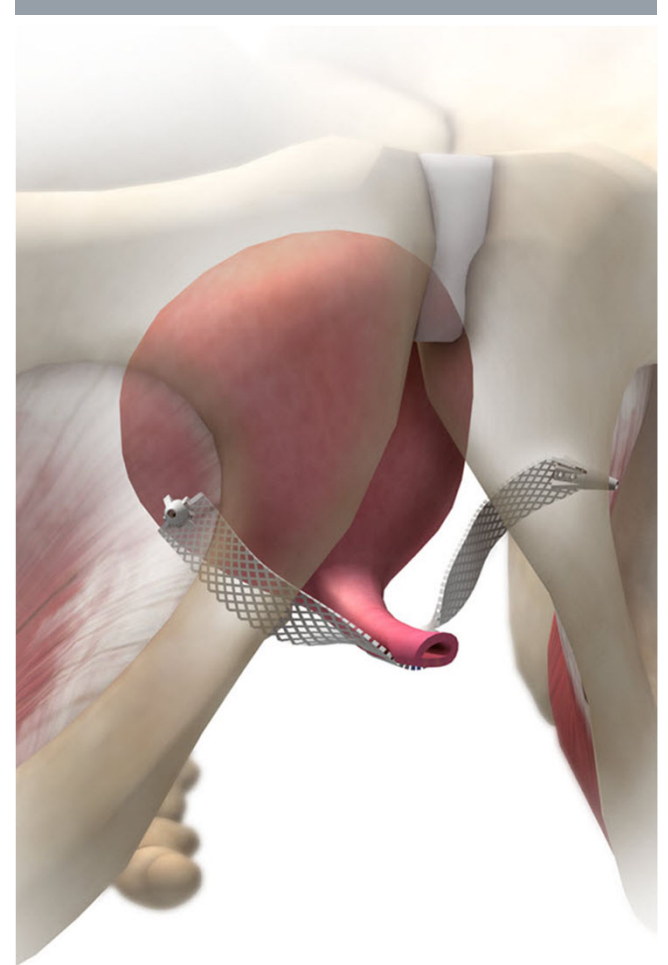
SYMPTOMS OF GSM



- Vaginal dryness
- Burning
- Vaginal discharge
- Genital itching
- Burning with urination
- More urinary tract infections
- Urinary incontinence
- Dyspareunia – discomfort with intercourse
- Light bleeding after intercourse
- Decreased vaginal lubrication during sexual activity
- Shortening and tightening of the vaginal canal

COMMON TREATMENT OPTIONS

- Physical Therapy
- Drugs
- Injections
- Surgical
 - Slings
 - Colposuspension
- Devices (inserted)



GSM TREATMENT OPTIONS



- **Non-hormonal treatments**
 - OTC vaginal lubricants
 - Reduce discomfort during intercourse
 - OTC vaginal moisturizers
 - Apply every 2-3 days, effects last a little longer than lubricant
- **Low-dose vaginal estrogen**
 - Rings, creams (messy!), suppositories, and tablets
 - Effective at low doses and limits exposure to estrogen; may provide direct relief of symptoms
- **Systemic estrogen therapy**
 - Administered orally, vaginally, or transdermally via injection or nasal spray
 - Concerns about long-term potential of estrogen to increase risk of breast and endometrial cancer



WHY DIVA

SCITON JOULE





HFL

More treatment options
Tune ablation and coagulation
Customize per patient needs



Speed

High Precision Automation makes treatment
time 5 min
Fit a quick procedure into a busy day



Comfort

Stationary Strengthened Quartz Dilators (SQDs)
allow for a comfortable treatment
More positive patient experiences



Safety

Single-use SQDs remove cross-contamination
risk
Patient safety always comes first



Multi-Platform

JOULE is the total aesthetic solution including
Halo, BBL, Hair Removal, Skin Firming, etc.
Multi-platform systems can offer multiple
treatments without changing rooms or devices.

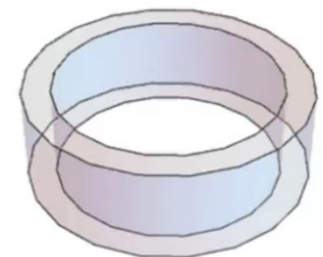
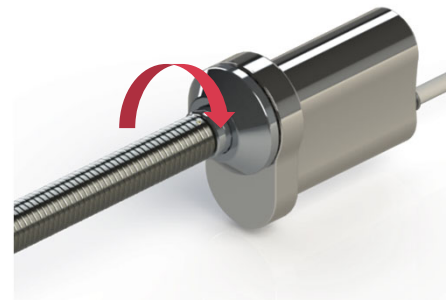
WHY DIVA?



- Only Hybrid Fractional Laser (HFL) technology for laser vaginal therapy
 - Dual wavelength system
 - Can use lasers separately or as hybrid ablation and heating
- Fast, easy, effective, comfortable
- World's first fully automated handpiece
 - Turns a 20 min procedure into 5 min!
 - Reduces treatment variability due to users
- 360 degree safeguard window
 - Hygienic, single-use Strengthened Quartz Dilators (SQDs)
 - Every laser pulsed through new region of window

WHAT IS HIGH PRECISION AUTOMATION (HPA)?

- Motorized control system
 - Footswitch controls rotation and automatically delivers laser pulses
- Advantages
 - Comfortable, predictable results
 - Limits user and treatment variability
 - Significantly decreases treatment time (3-6 min)



STRENGTHENED QUARTZ DILATORS (SQDS)

- Single-use dilators

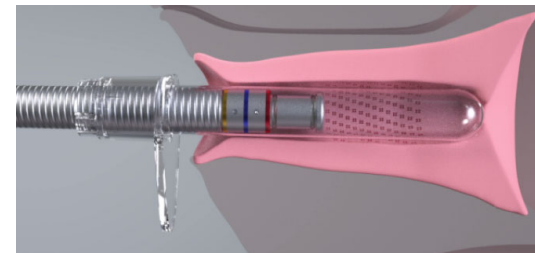
SIZE

Expands vaginal canal for increased treatment area

- Tip Length of 5.5"
- Diameter of 1"

HYGIENIC

Act as barrier between patient and handpiece

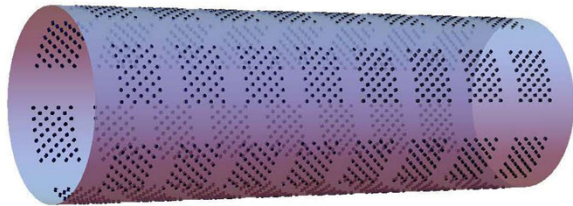


BENEFIT OF SQDS

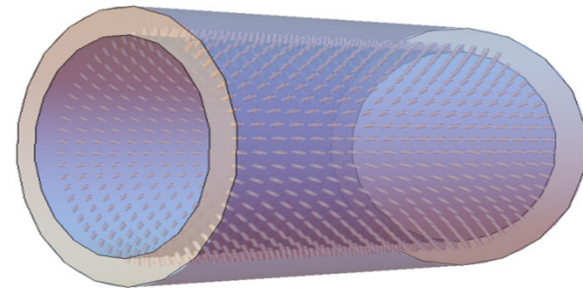
- Efficient
 - Every pulse delivered through new zone in strengthened quartz tip
- Hygienic
 - No risk of cross contamination
- Equipment stays consistent
 - Reprocessing can alter the surface of metal, lenses, and mirrors, which can degrade the handpiece

PATTERN COMPARRISON

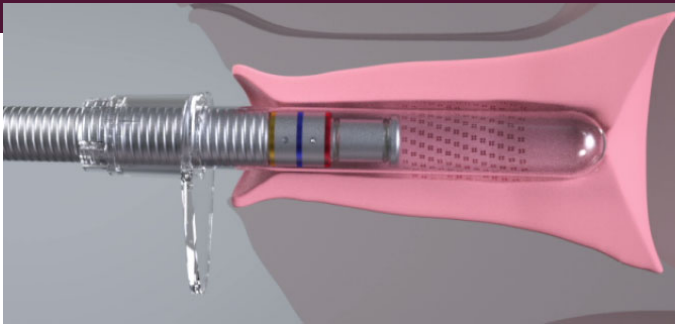
Competing Laser Pattern Treating Every 60 degrees



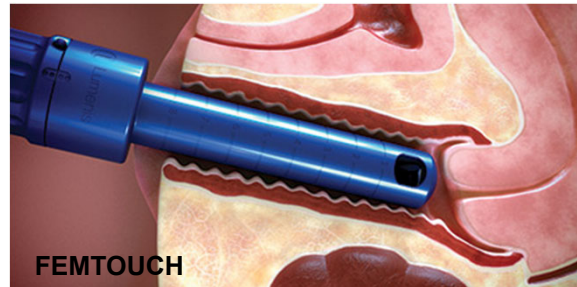
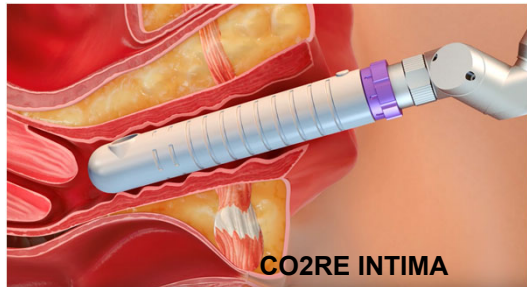
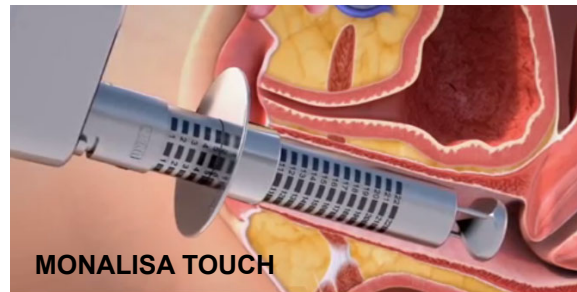
diVa Laser Pattern Treating 360 degrees



DESIGN COMPARISON



diVa keeps the vaginal canal expanded



Company	Product	Type	Tx Time (min)	Automated?	Dilator?	Disposable?	Expandable Platform?
Sciton	diVa	HFL	5	Yes	Yes	Yes	Yes
Alma	FemiLift	CO ₂	10 - 15	Yes	Yes	Yes	No
DEKA	MonaLisa Touch	CO ₂	5 - 10	No	No	No	No
Fotona	IntimaLase	Er:YAG	20	Yes	Yes	No	No
Lumenis	FemTouch	CO ₂	5 - 10	No	No	No	No
Syneron	CO2RE Intima	CO ₂	15	No	No	Yes	No
Thermi	ThermiVA	RF	20 - 25	No	No	Yes	Limited

VAGINAL THERAPY COMPARISON

WHO IS NOT A GOOD CANDIDATE FOR THIS PROCEDURE

Pregnant or lactating

Active yeast, bacterial, or viral infection

Known collagen disorder, vascular disease, history of bleeding disorder

Severe vaginal atrophy

Moderate to severe pelvic organ prolapse

Urinary tract infections

Undiagnosed pelvic pain or dyspareunia

Recent vaginal surgery

History of rectovaginal or vesicovaginal fistula

TREATMENT RECOMMENDATIONS

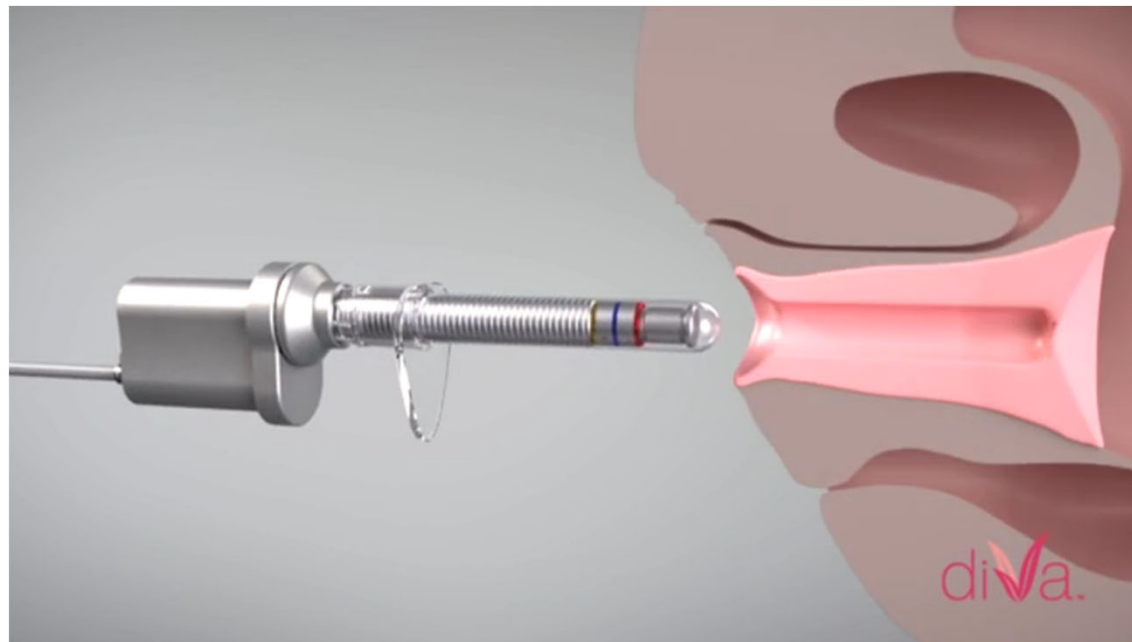
3 procedures every 4-6 weeks

Maintenance procedure on as needed basis

No sedation necessary

Local anesthetic recommended

TREATMENT ANIMATION



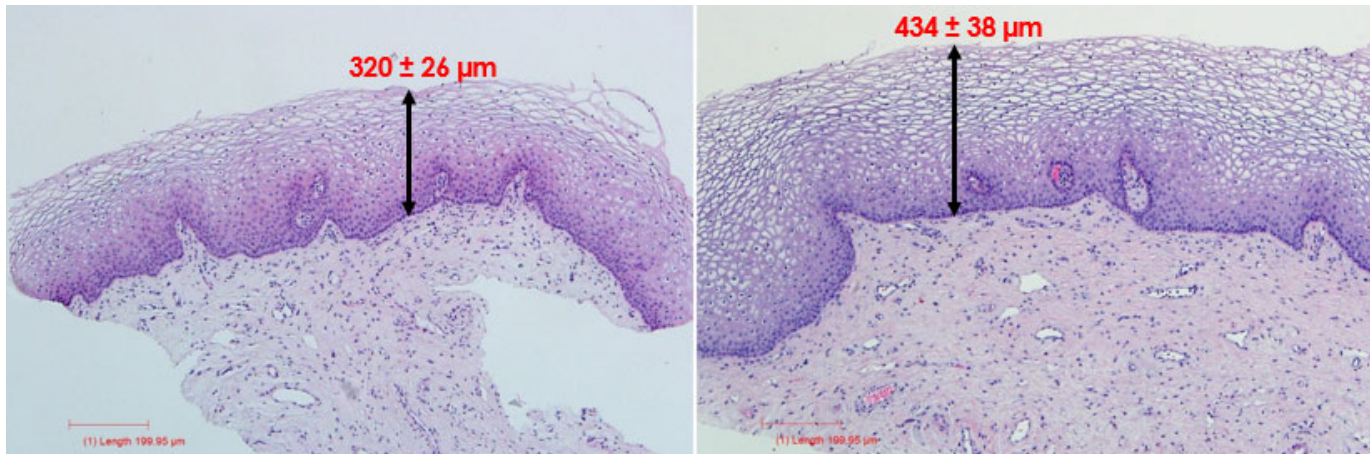
Treatment Post-Care



Patients:

- Can immediately return to work and normal life routine, with a few exceptions
- Should refrain from vaginal penetration for up to 48 hours, included by not limited to
 - Sexual intercourse for 48 hours
 - Douching
 - Use of tampons
- May experience
 - Spotting, pinkish colored discharge
 - Mild cramping
 - Sunburn-like feeling

BEFORE AND 3 MONTHS POST 3 TREATMENTS



Photos courtesy of Johnny Peet, MD

COMPLIMENTARY CONSULTATIONS

- If you have questions, we have answers. Give us a call at [\[redacted\]](#) and schedule your consultation today. We have weekend and evening hours 😊

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