

VULVAR DISEASE UPDATE

Lynette J. Margesson MD FRCPC
NEOGS, April 27, 2011

Conflicts of interest

Honorarium from Taro

Little evidence based treatment
Too few studies done in vulvar disease.

Most treatments discussed are "off-label"

Why Do Vulvar Disease ?

VULVAR CARE IS COMMONLY UNAVAILABLE

For women this is devastating

- suffer with undiagnosed symptoms
- waste millions of dollars on anti-yeasts
- hide and scratch
- endure vulvar pain and dyspareunia
- are desperate for help

VULVA !

What is that?

Down there?

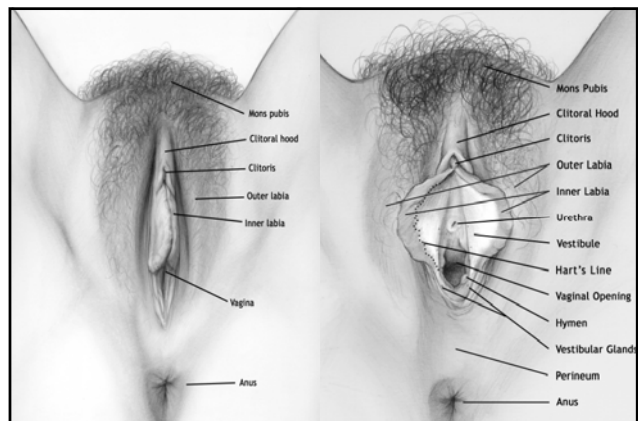
Vulvar Education

Lets eliminate the

"Down there" generation

Use diagrams and handouts

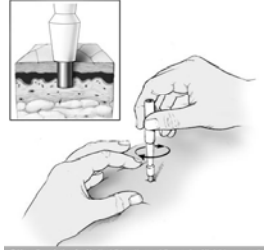
See www.issvd.org - patient education



BASIC PREMISES

- Patient anxiety and depression
- Normal anatomy can be confusing
- Look carefully for subtle abnormalities

Punch Biopsy



Pre-anesthesia -

- use a topical anesthetic
- 2.5% prilocaine / lidocaine cr
 - 5% lidocaine oint
 - 15 min under plastic wrap

Use a punch, shave or scissor biopsy

Stop bleeding:

- Monse's or ferric chloride
- 5 or 6-0 Vicryl suture

Erosive Lichen Planus

Biopsy -
Site ○
Number 1-3
size 4 mm
H&E + IF

Any question - do more than 1 biopsy

Herpes Simplex Virus (HSV)

Commonest cause of vulvar erosions / ulcers

Primary HSV is uncommon

HSV I increasing

Reversal of HSV II/I ratio - for new cases 70-80% HSV I

Usually spread from an asymptomatic partner

Women are unaware of their infection and most often present with recurrent HSV with no primary HSV history

Herpes Simplex Virus (HSV)

Think of HSV in a patient with a non-healing genital very painful ulcer
Onset as erosions that deepen and extend with punched out ulcers or ulcerated nodules.

Can be treatment resistant in HIV

Diagnosis -

Tsank smear, PCR, culture,
Type-specific serology, biopsy

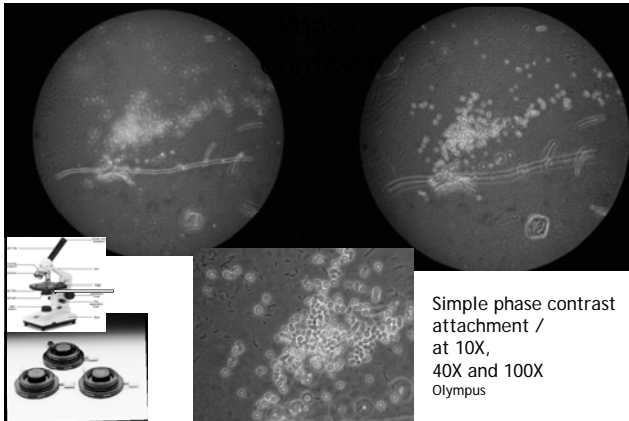
Candidiasis

Candidiasis is the commonest genital disease

Causes: Candida albicans 75%
Candida tropicalis, etc. 25%

NO TELEPHONE DIAGNOSIS

Candida can complicate all vulvar problems
e.g. LP, LSC, LS, Contact



Treatment Candidiasis

Topical imidazole cream or vag tabs- 1, 3, 7d
nystatin cream or vag tabs

Oral imidazole - fluconazole 150 mg on day 1, 3, 7

Suppression

clotrimazole 500g vag tab weekly or 200 mg twice a wk

fluconazole 150 - 200 mg orally weekly

ketoconazole 100 mg orally daily

itraconazole 100 mg orally daily

Resistant Candida

boric acid vag suppositories 600mg X 14 d

**Vulvar Patients are desperate!
with
Itch , burn , pain**

They try to :
"Wash it away" and "Clean up"
the **dirty** area
using
Soaps, cleansers, Anesthetics, Yeast Rx

Vulvar Contact Dermatitis

Primary irritant :

Prolonged or repeated exposure to
caustic or physically irritating agent
This is a "chemical burn"

Very common with ALL vulvar problems

Causes:

Hygiene habits - soap, wipes, pads

Moisture - urine, feces, sweat

Topicals - lotions, antifungals

Treatment Vulvar Contact Dermatitis

Stop Contact - Irritant or Allergen

- Stop irritants - Educate patient
- Stop scratching - Treat infection - yeast, bacteria
- Patch Test as indicated

Control inflammation

- triamcinolone 0.1% oint twice a day for 7-10 d
- If severe, systemic corticosteroids

Vulvar Contact Dermatitis

Frequent

Complicates all vulvar conditions

Irritant contact most common

Skin barrier lost from soaps,urine,feces

BEWARE THE "DIRTY" VULVA

Psoriasis

In genital area - often atypical
moist, thin red patches in skin folds, gluteal cleft
In hairy areas - red, scaly papules, plaques
Secondary changes with infection, common
- fissuring, pustules

Often missed or hidden

Please Ask

Psoriasis Treatment

Stop irritants

Treat infection - yeast and bacteria

Stop inflammation

- topical steroids - triamcinolone 0.1% ointment am pm 5-7d then
- tacrolimus 0.1% ointment or pimecrolimus 1% cream
- if severe, systemic medications

Lichen Simplex Chronicus (LSC)

End stage of the cycle

Itch \Rightarrow Scratch \Rightarrow Itch

Worse with heat, humidity, stress and irritants

Associations: atopic dermatitis, psoriasis, contact dermatitis

Scratching feels so good

Characteristics of Lichen Simplex Chronicus

Relentless pruritus	dyspigmentation
"nothing helps"	excoriations, crusts
"years of itch"	lichenification
uni or bilateral	hair loss

The diagnosis is clinical

Treatment LSC

Optimize Epithelial Barrier function:

Control infection (cefadroxil, fluconazole)
Reducing heat, sweat, irritation
Stop irritants - Stop excessive hygiene

Immediate therapy:
Tap water soaks in tepid water
Use cool packs or compresses to deaden nerves
No hot water - No ice packs
Seal in moisture with ointments long-term

Treatment LSC

Confirm diagnosis - biopsy ?

- Educate patient
- Patch Test as indicated

Stop Itch-Scratch-Itch cycle

- Cool sitz baths/gel packs
- Sedate - doxepin or hydroxyzine PM, citalopram AM
- Topical superpotent steroids - clobetasol 0.05% oint bid x 2 wks, OD x2 wks, MWF x 2 wks
- Severe - prednisone taper or IM triamcinolone 1mg/kg up to 80 mg/dose

Look for more than one cause

Treatment Tips LSC

If water stings raw skin:

Normal saline Sitz baths:
1 tsp salt in 3 cups of water
Soak for 5-7 min 2-3 times a day

For recurrent infection:

Swab skin folds and nose for C&S - R/O MRSA, Candida

Bleach Baths - 3 times a week

½ cup bleach in 10" water for 5-7 min
1 ¼ teaspoons of bleach per gallon (4 liters) of water

Lichen Sclerosus

A chronic, autoimmune, mucocutaneous disease affecting the genital skin causing whiteness, tissue thinning and scarring affecting perimenopausal women 40-50 yrs

Commonest cause of chronic vulvar disease

Prevalence 1:300 - 1:1000

670 cases in Boston - 6,600 in metropolitan area

15% cases children

15% have extragenital disease

3-5% \implies SCC

Murphy R. Lichen sclerosus. Dermatol Clin 2010 Oct;28(4):707-15.
Neill SM, Lewis FM, Tamali FM, Cox NH. British Association of Dermatologists' guidelines for the management of lichen sclerosus 2010. Br J Dermatol 2010 Oct;163(4):672-82.

Lichen Sclerosus Treatment

Confirm diagnosis - biopsy

- Stop irritants
- Educate patient
- Stop scratching
- Treat infection - yeast, bacteria

Control inflammation

- clobetasol or halobetasol 0.05% oint once or twice a day for 3 months then maintenance 1-3 times a week
- If very thick, consider intralesional triamcinolone

Not responding?

Reassess, rebiopsy, R/O SCC, contact

Follow forever

Lichen Sclerosus

Alternate Treatments

Calcineurin inhibitors:

pimecrolimus 1% cream bid

tacrolimus 0.1% ointment bid

Antimalarials - hydroxychloroquine 200mg bid

Methotrexate 10 -15 mg/ week po or sc + folate 1 mg/d

Cyclosporine 4-5 mg/kg/d

Compliance issues children and teens - 2.5% HC oint daily

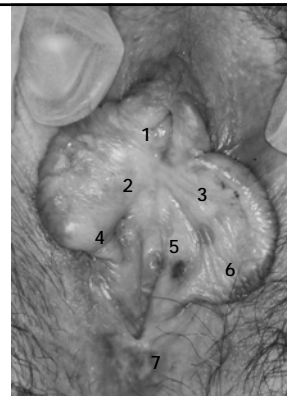
Lichen Sclerosus

For very thick poorly responding LS

Prednisone for short 2-3 week course

Intralesional triamcinolone
3.3-10 mg/ml after topical anesthetic
Monthly for up to 3 months

Sites of
Injections
of T/C
2.5 to 10
mg/ml



Before RX
Topical
2.5%
lidocaine
+
prilocaine
for
20-30 min

Update on Intralesional steroid: focus on dermatoses. Richards RN. J Cutan Med Surg. 2010 Jan-Feb;14(1):19-23.

MANAGEMENT PRINCIPLES

- Explanation of the disease process, treatments, expectations
- Handouts
- Photographs
- Treat all factors

MANAGEMENT PRINCIPLES

- Anticipate and minimize iatrogenic disease (yeast, irritant contact dermatitis)
- Avoid cream vehicles on painful, inflamed, or estrogen-deficient vulvar skin
- Avoid topical therapy in general and use oral medications, except for corticosteroids
- The vulva is relative steroid resistant
 - use ultrapotents

Lichen Planus

An autoimmune, mucocutaneous disorder of altered cell mediated immunity in older women - 50 - 60 years

Affects - Skin, scalp, nails
Mucous membranes - oral, genital, anus
esophageal, urinary tract

Responds to immunosuppressive therapy
2-5% \rightleftharpoons SCC

Always Examine the Vulva & Vagina & Mouth

Lichen Planus Vulvar Patterns

60% itchy 70-75% painful

Classic -

White, lacy, or fernlike topped papules

Hypertrophic -

Extensive white, thick scarring, destruction
Very itchy
Looks like LS

Erosive -

Red plaques with whitish to lacy edges
Glazed erythema, erosions, ulcers, scarring

Variable morphology

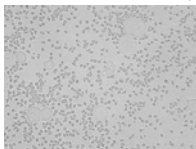
Vaginal Lichen Planus

In the vagina: may be asymptomatic

LP causes Desquamative Inflammatory Vaginitis DIV with:

- Pain
- Erosions
- Synechiae
- Dyspareunia
- Dysuria
- Stenosis/ Scarring
- Discharge

- Mucopurulent vaginal discharge - yellow, green, bloody



Always examine vagina

Erosive Vulvovaginal LP

Pain plus burning

Deep red erosions, glazed erythema
with thin gray edge

Fern-like or lacy white pattern

Variable scarring / loss of architecture

Examine :

Vulva + Vagina + Anus + Mouth + Skin

Lichen Planus Treatment

Confirm diagnosis - biopsy

- Stop irritants
- Educate patient
- Stop scratching
- Control infection

Control inflammation

clobetasol or halobetasol 0.05% oint
 intralesional, vaginal or systemic corticosteroids
 topical tacrolimus (Protopic) 0.03%, 0.1% oint - burns
 2 mg suppositories qhs

Corticosteroids for Lichen Planus

Systemic Corticosteroids: Use for severe LP

Triamcinolone 1 mg/kg up to 80 mg/dose IM

(Kenalog 40®) q4wks x 3

Prednisone 40-60 mg PO OD, decreasing dose

Intravaginal Hydrocortisone acetate OHS:

- suppository 25mg (available) or 100 mg (compounded)
- 10% compounded vaginal cream, 4 - 5g per dose
 (400-500mg/dose)

Use nightly for 14 days then Mon Wed Fri **use dilators**

Note: adrenal suppression and candidiasis

Lichen Planus Treatment

SEVERE

Systemic corticosteroids - Triamcinolone 1mg/kg IM
 every 4 weeks for 3-4 shots

Methotrexate 5-10mg/week PO or SC

Cyclosporine 4-5 mg/kg/d -3-4months

Mycophenolate mofetil 500mg -1.5 g bid

Etanercept 50 mg 1-2 doses / week ?

Hydroxychloroquine 200 mg bid

Acitretin (1 mg/kg)

The Lichens

LS	LP	LSC
Itch or burn	Itch or burn	++++ Itch
Scars	Scars	No Scar
Not in Vagina	In Vagina And Mouth	Not in Vagina

Causes of Treatment Failure

1) Noncompliance

- poor education
- Fear of topical steroids
- Limited mobility

2) Incorrect diagnosis - was a biopsy done ?

3) Associated problems

LS, LP, contact, Candida, HSV, estrogen loss, SCC

Mucous Membrane Pemphigoid

Rare mucocutaneous scarring & blistering disease

Autoimmune - auto-antibodies to epidermal basement membrane

Sites:

mouth 85% vulva 50%
 eyes 65% skin 25%

Non-healing erosions vulva LP , LS, Pemphigus

- desquamative vaginitis
- scarring

Diagnosis : histopathology and immunofluorescence

Vulvar Squamous Cell Carcinoma

Commonest vulvar malignancy
 85-90% of all vulvar cancers
 Classification - Intraepithelial
 - Invasive

VIN and Vulvar SCC

Intraepithelial

Vulvar Intraepithelial Neoplasia (VIN 2-3, high grade VIN)

VIN, usual type **multifocal** - HPV 16, 18
 - in younger women
 VIN, warty type - looks like condylomata
 VIN, basaloid type
 VIN, mixed (warty/basaloid) type

VIN, differentiated type **solitary** - in older women,
 associated with LS

Invasive SCC - in women > 65 yr.
 - up to 40% - lichen sclerosis

Vulvar SCC

30-40% vulvar SCC occur in lichen sclerosis

Lichen sclerosis and lichen planus
 can develop SCC in 3-4% cases

Causes of Vulvar Ulcers in North America

Infections

Venereal

Herpes simplex

Syphilis

HIV

Non-Venereal

EBV

M.pneumonia

Dermatoses - Non-bullous

Aphthosis

Lichen planus

Lichen sclerosis

Crohn's disease

Contact

Drug

Tumors

Squamous cell carcinoma

Vulvar Aphthous Ulcers

"Canker Sores" on the Vulva

- Average age is 14 (9-19) yrs
- Sudden onset
- Usually multiple, painful, well demarcated punched-out ulcers
- Size: most <1cm; can be 1-3 cm
- Prodrome - flu-like with mild fever, headache, malaise
- Duration 1-3 weeks, can last months
- One episode, less common recurrent
- Past history of oral aphthae - canker sores
- Not Behcet's

Huppper et al. J Ped Adolesce Gynrcol 2006;195-204
 Farhi et al. Arch Dermatol 2009;145:38-45

APHTHAE - Acute vs Chronic

Acute (more common)

- usually a prodrome - fever, headache, malaise, GI upset
- EBV, Mycoplasma pneumoniae, viral upper respiratory infection or gastroenteritis, influenza, Strep

Recurrent / Complex (recurrent oral and genital aphthae)

Inflammatory Bowel disease - Crohn's, Ulcerative colitis, Cellac disease

Behcet's disease

Medications - cytotoxic, NSAIDs

Myeloproliferative disease, cyclic neutropenia, lymphopenia
 HIV

Vulvar Aphthae

Diagnosis

Diagnosis of exclusion
Look for associated conditions
Cultures negative, biopsies non-specific and blood work non-contributory

DDx: HSV, EBV, drug, Crohn's, Behcet's, Syphilis, HIV

Vulvar Aphthae - Therapy

- Pain control - topical, systemic
- Prednisone 40 - 60 mg each morning until pain resolves (3-5 days, then ½ dose 3-5 days)
 - ultrapotent corticosteroid
- Educate -Most often a one-time event, can recur

If not controlled:

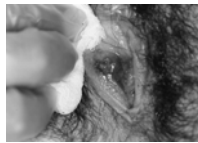
Intralesional triamcinolone (Kenalog 10) 5-10 mg/ml
colchicine 0.6 mg bid-tid if tolerated
dapsone 50-150 mg per day
dapsone + colchicine
pentoxifylline 400 mg tid
thalidomide 100-150 mg per day

Epstein-Barr Virus (EBV)

Lymphotropic herpes virus

Age - teens to early 20s

- Clinical
- acute onset
 - fever, malaise
 - sore throat - lasts 2 to 3 weeks
 - punched out painful ulcer(s)
 - recent hx of mono in family member



Serology -EBV IgM anti-VCA antibody

Vulvar Behcet's Disease

Rare

Triad - oral ulcers, genital ulcers, uveitis

Clinical -

- painful, punched-out vulvar ulcers
 - last 2-3 wks
 - heal with scars, sinuses
 - erythema nodosum
 - minor to no eye problems

Good prognosis

Vulvar Crohn's Disease

Chronic inflammatory bowel disease

- rare on vulva -2% women have vulvar lesions

- Contiguous
 - direct fistulae from bowel to skin
- Non-contiguous/metastatic
 - painful labial edema +/- ulcers
 - "knife cut" ulcers
- Non-specific
 - aphthae - oral and vulvar

Drug Eruptions

Drugs can cause 100 different skin reactions

Many can be seen on the vulva

Erosive/ulcerative types -

erythema multiforme

aphthous ulcers

Pemphigoid

fixed eruptions,

LP and LE eruptions,

Topical Treatment Instructions

Give specific instructions for topicals

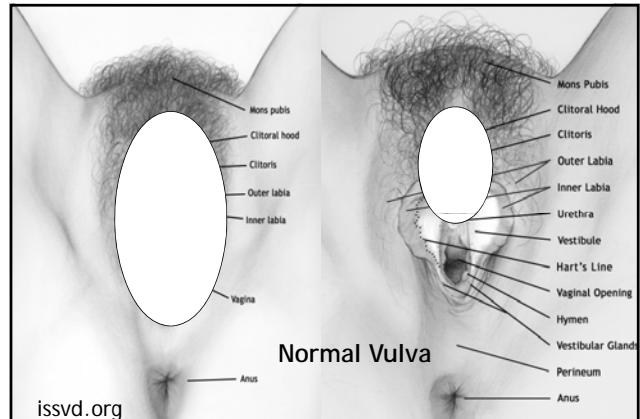
Amount to use

- show her, in the office, how much to use
- squeeze onto your finger, and demonstrate

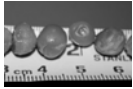
Application site

- some women have never seen their vulva
- use a mirror, and show the exact place(s)
- give her a diagram with correct areas indicated

www.issvd.org Patient Education



How much to apply ?



"PEA SIZED" AMOUNT ?

"TOOTH PICK" Dermatology

The amount of ointment or cream on the large end of a toothpick will cover the vulva



Commonest Missed Concurrent Vulvar Diseases

Candidiasis
Contact Dermatitis
HSV
Atrophy
Cancer

LOOK FOR MORE THAN ONE PROBLEM

Treat Vulvar Disease

Listen - review history

Biopsy and RE-BIOPSY

Look for

- infection - Candida, HSV, bacteria
- trauma from aggressive hygiene or other practices
- contact dermatitis
- squamous cell carcinoma

Educate

Support - counseling as needed

Assess compliance

LOOK FOR MORE THAN ONE PROBLEM

Vulvar Disease Treatment Handout

Handout : Your Diagnosis Is? Test Your Knowledge of Vulvovaginal Disorders

Available at:

http://www.med.umich.edu/obgyn/cvd/ref_phys.htm

Click on Summary of Vulvovaginal Diseases

THE ISSVD XXI WORLD CONGRESS
SEPTEMBER 3-8, 2011
PARIS, FRANCE



issvd.org

Vulvar Disease References

- (1) Beecker J. Therapeutic principles in vulvovaginal dermatology. *Dermatol Clin* 2010 Oct;28(4):639-48.
- (2) Danby CS, Margesson LJ. Approach to the diagnosis and treatment of vulvar pain. *Dermatol Ther* 2010 Sep;23(5):485-504.
- (3) Groysman V. Vulvodinia: new concepts and review of the literature. *Dermatol Clin* 2010 Oct;28(4):681-96.
- (4) Lynch PJ. Lichen simplex chronicus (atopic/neurodermatitis) of the anogenital region. *Dermatol Ther* 2004;17(1):8-19.
- (5) Margesson LJ. Vulvar disease pearls. *Dermatol Clin* 2006 Apr;24(2):145-55, v.
- (6) McPherson T, Cooper S. Vulval lichen sclerosus and lichen planus. *Dermatol Ther* 2010 Sep;23(5):523-32.
- (7) Murphy R. Lichen sclerosus. *Dermatol Clin* 2010 Oct;28(4):707-15.
- (8) Neill SM, Lewis FM, Tatnall FM, Cox NH. British Association of Dermatologists' guidelines for the management of lichen sclerosus 2010. *Br J Dermatol* 2010 Oct;163(4):672-82.
- (9) Schlosser BJ, Mirowski GW. Approach to the patient with vulvovaginal complaints. *Dermatol Ther* 2010 Sep;23(5):438-48.
- (10) Stewart KM. Clinical care of vulvar pruritus, with emphasis on one common cause, lichen simplex chronicus. *Dermatol Clin* 2010 Oct;28(4):669-80.
- (11) Edwards L, Lynch PJ, Neill SM. *Genital Dermatology Atlas*. 2nd ed. Philadelphia: Lippincott Williams and Wilkins; 2011.

See *Dermatologic Therapy Diagnosis and treatment of vulvar and Vaginal Disorders Vol 23 Oct 2010*
Dermatologic Clinics Vulvovaginal Dermatology Vol 28 Oct 2010