

# Name That Rash or Lesion: Dermatology Across Lifespan

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Owner – Partners in Healthcare Education

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## Disclosures

- ▶ Speaker Bureau:
  - Sanofi-Pasteur, Pfizer, Merck, Amgen
- ▶ Consultant:
  - Sanofi, Merck, Pfizer, Gilead

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## Objectives

- Upon completion of this lecture, the participant will:
  1. Identify various dermatology conditions
  2. Discuss those dermatology conditions that require an immediate referral
  3. Develop an appropriate plan for evaluation, treatment, and follow-up of the various lesions

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## Fifth's Disease (Erythema Infectiosum)

- Human Parvovirus B19
  - Occurs in epidemics
  - Occurs year round: Peak incidence is late winter and early spring
- Most common in individuals between 5-15 years of age
  - Period of communicability believed to be from exposure to outbreak of rash
  - Incubation period: 5-10 days
  - Can cause harm to pregnant women and individuals who are immunocompromised

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## Fifth's Disease (Erythema Infectiosum)

- Low grade temp, malaise, sore throat
  - May occur but are less common
- 3 distinct phases
  - Facial redness for up to 4 days
  - Fishnet like rash within 2 days after facial redness
  - Fever, itching, and petechiae
    - Petechiae stop abruptly at the wrists and ankles
      - Hands and feet only

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## Fifth's Disease (Erythema Infectiosum)

- Physical Examination Findings
  - Low grade temperature
  - Erythematous cheeks
    - Nontender and well-defined borders
  - Netlike rash
    - Erythematous lesions with peripheral white rims
    - Rash-remits and recurs over 2 week period
  - Petechiae on hands and feet

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## Fifth's Disease



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## ■ Fifth's Disease

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## Fifth's Disease



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## Fifth's Disease (Erythema Infectiosum)

- Diagnosis/Plan
  - Parvovirus IgM and IgG
  - IgM=Miserable and is present in the blood from the onset up to 6 months
  - IgG=Gone and is present beginning at day 8 of infection and lasts for a lifetime
  - CBC-May show a decreased wbc count

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## Fifth's Disease (Erythema Infectiosum)

- Diagnosis/Plan
  - Was contagious before rash appeared therefore, no isolation needed
    - Spread via respiratory droplets
  - Symptomatic treatment
  - Patient education-I.e. contagion, handwashing
  - Can cause aplastic crisis in individuals with hemolytic anemias
  - Concern regarding: miscarriage, fetal hydrops
  - Adults: arthralgias

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## Hand, Foot, and Mouth Disease (Coxsackie Virus)

- Caused by the coxsackie virus A16
- Most common in children
- 2-6 day incubation period
- Occurs most often in late summer-early fall
- Symptoms
  - Low grade fever, sore throat, and generalized malaise
  - Last for 1-2 days and precede the skin lesions
  - 20% of children will experience lymphadenopathy

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## cdc.gov

- From November 7, 2011, to February 29, 2012, CDC received reports of 63 persons with signs and symptoms of HFMD or with fever and atypical rash in Alabama (38 cases), California (seven), Connecticut (one), and Nevada (17).
- Coxsackievirus A6 (CVA6) was detected in 25 (74%) of those 34 patients
- Rash and fever were more severe, and hospitalization was more common than with typical HFMD.
- Signs of HFMD included fever (48 patients [76%]); rash on the hands or feet, or in the mouth (42 [67%]); and rash on the arms or legs (29 [46%]), face (26 [41%]), buttocks (22 [35%]), and trunk (12 [19%])
- Of 46 patients with rash variables reported, the rash typically was maculopapular; vesicles were reported in 32 (70%) patients
- Of the 63 patients, 51 (81%) sought care from a clinician, and 12 (19%) were hospitalized. Reasons for hospitalization varied and included dehydration and/or severe pain
- No deaths were reported

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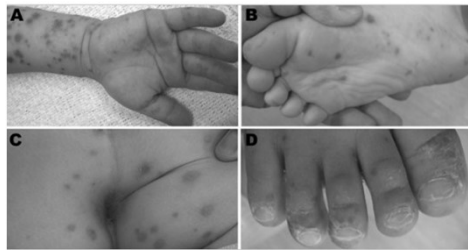
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## Hand, Foot, and Mouth Disease – A6



**Figure.** Typical clinical manifestations of hand, foot, and mouth disease associated with coxsackievirus CVA6 in Shizuoka, Japan, June–July, 2011. A) Hand and arm of a 2.5-year-old boy; B) foot and C) buttocks of a 6-year-old boy; D) nail matrix of a 20-month-old boy.

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<http://wwwnc.cdc.gov/eid/article/18/2/11-1147-fl.htm> accessed 05-01-2013

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## Hand, Foot, and Mouth Disease (Coxsackie Virus)

- Physical Examination Findings
  - Oral lesions are usually the first to appear
    - 90% will have
  - Look like canker sores; yellow ulcers with red halos
  - Small and not too painful
  - Within 24 hours, lesions appear on the hands and feet
    - 3-7 mm, red, flat, macular lesions that rapidly become pale, white and oval with a surrounding red halo
    - Resolve within 7 days

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## Hand, Foot, and Mouth Disease (Coxsackie Virus)

- Physical Examination Findings
  - Hand/feet lesions
    - As they evolve – may evolve to form small thick gray vesicles on a red base
    - May feel like slivers or be itchy

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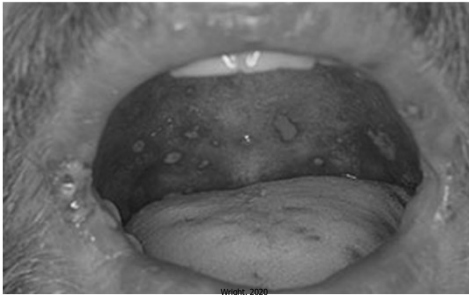
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## Hand Foot and Mouth Disease



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## Hand Foot and Mouth Disease



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## Hand, Foot, and Mouth Disease (Coxsackie Virus)

- Plan
  - Diagnostic: None
  - Therapeutic
    - acetaminophen
    - Warm baths
    - Benzalkonium chloride/benzocaine/zinc chloride (Orajel)
    - Diphenhydramine/aluminum hydroxide/magnesium hydroxide (Benadryl/Maalox)

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## Hand, Foot, and Mouth Disease (Coxsackie Virus)

- Plan
  - Educational
    - Very contagious (2d before -2 days after eruption begins)
    - Entire illness usually lasts from 2 days – 1 week
    - Reassurance
    - No scarring

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## Pityriasis Rosea

- Etiology
  - Common, benign skin eruption
  - Etiology unknown but believed to be viral
  - Small epidemics occur at frat houses and military bases
  - Females more frequently affected
  - 75% occur in individuals between 10 and 35; highest incidence: adolescents
  - 2% have a recurrence
  - Most common during winter months

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## Pityriasis Rosea

- Symptoms
  - Rash initially begins as a herald patch
  - Often mistaken for ringworm
  - 29% have a recent history of a viral infection
  - Asymptomatic, salmon colored, slightly itchy rash
- Signs
  - Prodrome of malaise, sore throat, and fever may precede
  - Herald patch: 2-10cm oval-round lesion appears first
  - Most common location is the trunk or proximal extremities

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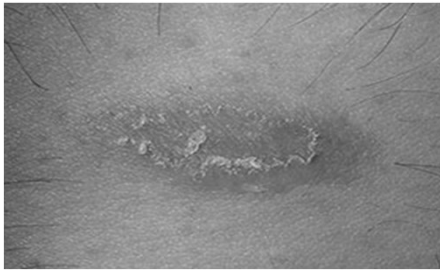
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## Pityriasis Rosea



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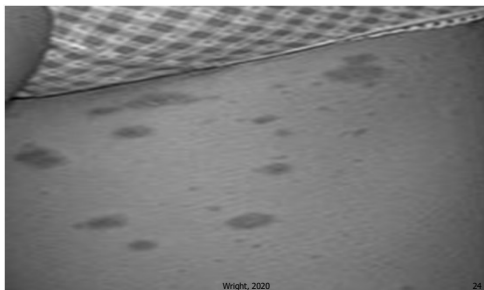
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## Pityriasis Rosea



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**Pityriasis Rosea**

- Signs
  - Eruptive phase
    - Small lesions appear over a period of 1-2 weeks
      - Fine, wrinkled scale
      - Symmetric
      - Along skin lines
      - Looks like a drooping pine tree
      - Few lesions-hundreds
      - Lesions are longest in horizontal dimension

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**Pityriasis Rosea**

- Signs (continued)
  - 7-14 days after the herald patch
  - Lesions are on the trunk and proximal extremities
  - Can also be on the face

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**Pityriasis Rosea**

- Diagnosis
  - History and physical examination
- Plan
  - Diagnostic
    - Can do a punch biopsy if etiology uncertain
      - Pathology is often nondiagnostic
      - Report: spongiosis and perivascular round cell infiltrate
    - Consider an RPR to rule-out syphilis

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## Pityriasis Rosea

- Plan
  - Therapeutic
    - Antihistamine
    - Topical steroids
    - Short course of steroids although, may not respond
    - Sun exposure
    - Moisturize
  - Educational
    - Benign condition that will resolve on own
      - May take 3 months to completely resolve
    - No known effects on the pregnant woman
    - Reassurance

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## Contact Dermatitis: Rhus Dermatitis

- Rhus Dermatitis
  - Poison ivy, poison oak and poison sumac produce more cases of contact dermatitis than all other contactants combined
  - Occurs when contact is made between the leaf or internal parts of the roots and stem and the individual
    - Can occur when individual touches plant or an animal does and then touches human
  - Eruption can occur within 8 hours of the contact but may take up to 1 week to occur

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## Clinical Pearls

- Poison ivy is not spread by scratching
- No oleoresin is found in the vesicles and therefore, can not be spread by scratching
- Lesions will appear where initial contact with plant occurred
- Resin needed to be washed from skin within 15 minutes of exposure to decrease risk of condition

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## Clinical Presentation

- Clinical presentation
  - Characteristic linear appearing vesicles are likely to appear first
  - Often surrounded by erythema
  - Intensely itchy
  - Lesions often erupt for a period of 1 week and will last for up to 2 weeks
  - More extensive and widespread presentation can occur with animal exposures or burning of the plants / smoke exposure

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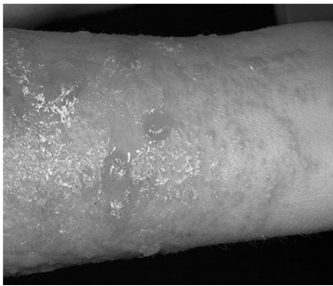
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## Contact Dermatitis



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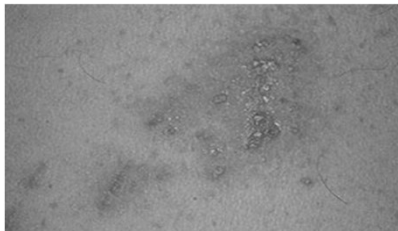
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## Contact Dermatitis



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## Treatment

- Cool compresses 15 – 30 minutes three times daily
- Topical calamine or caladryl lotions
- OTC washes – binds urushiol oil and removes from body/blisters
  - 75% decrease in itching and rash within 24 hours per package
- Colloidal oatmeal baths once daily

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## Treatment

- Oral antihistamines
  - May wish to use sedating antihistamines at bedtime
- Topical corticosteroids
  - Avoid usage on the face
- Oral prednisone vs. injectable triamcinolone or similar (20% or more of body affected or face/genitalia/hands)
  - 20 mg two times daily x 7 days
  - Triamcinolone (Kenalog) 40 mg injection (IM)

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## Follow-up

- Monitor for secondary infections
- Impetigo
  - Staph vs. strep
  - MRSA
- Education:
  - Lesions will decrease over a 2 week period
  - May continue to erupt over 48 hours despite steroid administration
  - Not spreading lesions with rubbing or scratching

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## Hot Tub Folliculitis

- Inflammation of the hair follicle
- Caused by infection which occurs within 8 hours – 5 days of using contaminated hot tub or whirlpool
- Unfortunately, showering after exposure provides no protection
- *Pseudomonas* is the most common cause of hot tub folliculitis
- May also be caused by Staphylococcus, but unusual
  - MSSA or MRSA

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## Clinical Presentation

- One or more pustules may first appear
- Fever may or may not be present; usually low grade if it does occur
- Malaise and fatigue may accompany the outbreak
- Pustules may have wide rims of erythema

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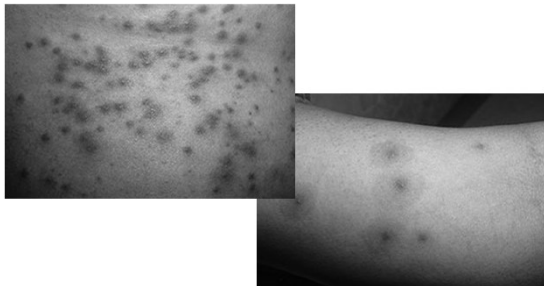
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## Hot Tub Folliculitis



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## Treatment

- Culture of lesions is likely warranted
- White vinegar wet compresses – 20 minutes on three x daily may provide significant benefit
- Oral Antibiotics
  - Ciprofloxacin is preferred agent if hot tub folliculitis is suspected due to pseudomonas coverage
- Discuss contagiousness
  - No evidence that it is spread person - person

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## Case Study

- S:TM is a 64-year-old Caucasian male who presents with a painful rash located on his right buttock.
  - Describes the rash as red and blistered
  - Has been present x 96 hours and is in for an evaluation because the pain is severe.
  - Pain is "9" on 0 – 10 scale. Has tried oral OTC medications without significant improvement. Pain is described as a burning sensation; deep in his buttock.
  - Denies precipitating factors. Pain began approx 2 days before the rash appeared. Denies fever, chills, new soaps, lotions, changes in medications.
- Medications: atorvastatin 40 mg 1 po qhs; amlodipine 5 mg 1 po qhs; loratidine 10mg 1 po qd; aspirin 81 mg 1 po qam; various vitamins

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## Case Study

- Allergies: NKDA
- PMH: dyslipidemia; hypertension; obesity, allergic rhinitis
- Social history: 30 pack year history of cigarette smoking; none x 10 years; Machinist; happily married x 40+ years

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### Case Study

- O: T:97.8; P: 94; R:18; BP: 148/90
  - Skin: p/w/d; approximately 15-20 vesicles located on right buttock overlying an erythematous base; vesicles are clustered but without obvious pattern; no streaking, petechiae. Few scattered vesicles on posterior aspect of right thigh; no lesions on left buttock or leg
  - Hips: FROM: no tenderness, erythema, masses

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### Case Study

- O: PE continued
  - Back: From: no tenderness, erythema, masses
  - Abdomen: Soft, large; + BS; no masses, tenderness, hsm
  - Neuro: intact including light touch, pain, vibratory to right lower extremity; heel, toe walking intact
    - + Allodynia
      - Clothing, light touch, cool object
    - + Hyperalgesia
      - Painful stimuli elicited significant pain

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### Examples of Herpes Zoster



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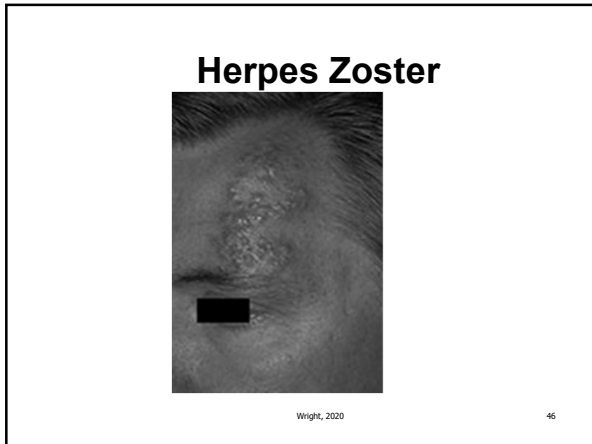
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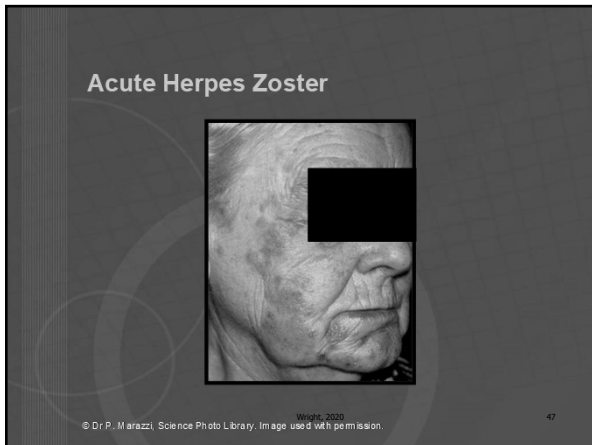
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**Herpes Zoster**

- Highly contagious DNA virus which during the varicella infection (primary infection) gains access into the dorsal root ganglia
- Virus remains dormant for decades and is reactivated when an insult occurs to the individual's immune system
  - Examples: HIV, chemotherapy, illness, stress, corticosteroid usage

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## Incidence and Prevalence

- 3 million cases of chickenpox yearly
  - Disease of childhood
- 600,000 - 1 million cases of herpes zoster each year in the United States
  - Tends to be more of a disease of aging
  - By age 80, 20% of us will have zoster at some point in our lifetime
  - Men = Women

[www.niaid.nih.gov/shingles/cq.htm](http://www.niaid.nih.gov/shingles/cq.htm)  
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## Risk Factors

- Increasing age (50-60 years and beyond)
- Varicella infection when < 2 years of age
- Immunosuppression
- Stress (controversial)
- Trauma
- Malignancies
  - 25% of patients with Hodgkin's will develop zoster<sup>1</sup>

<sup>1</sup>Stankus, S, et. Al. Management of Herpes Zoster and Postherpetic Neuralgia. Am Fam Physician 2000;61:2437-44, 2447-8)  
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## Goals of Treatment

- Treat acute viral infection
  - Shorten course
  - Reduce lesions
- Treat acute pain
- Prevent complications
  - Postherpetic neuralgia

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## Acute Treatment Options

- Antiviral
  - Goal: Reduce viral reproduction
- Corticosteroids
  - Initially postulated that these reduce viral replication; recent studies have not found this to be true
  - However, they do decrease pain
- Pain Management
  - Topical agents
  - Anti-inflammatory agents
  - Narcotics
- Postherpetic neuralgia prevention

www.aad.org/pamphlets/herpesZoster.html Wright, 2020

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## Antiviral Treatment Options

- Ideally, want to begin within the first 72 hours of the eruption as benefits may be reduced if started after that
- These medications decrease duration of the rash and severity of the pain
  - Studies vary as to how much these products actually reduce the incidence of post-herpetic neuralgia

\*Stankus, S. et. Al. Management of Herpes Zoster and Postherpetic Neuralgia. Am Fam Physician 2000;61:2437-44, 2447-8) Wright, 2020

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## Controlled Trials of Antiviral Agents in Herpes Zoster

% of patients with PHN at:	3 months	6 months
Acyclovir vs. Placebo	25% vs. 54%	15% vs. 35%
Valacyclovir vs. Acyclovir	31% vs. 38%	19.9% vs. 25.7%
Famciclovir vs. Placebo	34.9% vs. 49.2%	19.5% vs. 40.3%

Adapted from Johnson RW. J Antimicrob Chemother. 2001;47:1-8. Wright, 2020

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## Pain

- Pain associated with herpes zoster can range from mild – severe
- Clinician must tailor pain medication options based upon individual presentation

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## Pain Management

- Topical Agents
  - Calamine lotion to lesions 2 – 3x/day
  - Betadine to lesions qd
  - Capsaicin cream once lesions crusted 3 – 5x/day
  - Topical lidocaine 5% patch for 12 hours at a time once lesions are crusted

<sup>1</sup>Stankus, S. et. Al. Management of Herpes Zoster and Postherpetic Neuralgia. Am Fam Physician 2000;61:2437-44, 2447-8) 56

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## Acute Pain Management

- Oral Agents
  - Acetaminophen
    - Has not been shown to be effective in trials)
  - Ibuprofen or similar
    - Not likely to be effective with neuropathic pain
- Nerve Blocks
  - Have been shown to be effective for many individuals with severe pain in some trials; other trials - ineffective

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**And...the use of medications such as TCA's, gabapentin, pregabalin, oxycodone and tramadol during the acute phase of HZ decrease pain but also may also reduce the risk of PHN**

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### **Follow-up**

- Monitor for secondary infections
- Monitor for evidence of postherpetic neuralgia
- Monitor for adverse impact on quality of life

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### **Two Sets of Guidelines**

- IDSA
  - <http://www.idsociety.org/lyme>
- ILADS
  - [http://www.ilads.org/files/ILADS\\_Guidelines.pdf](http://www.ilads.org/files/ILADS_Guidelines.pdf)

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## Erythema Chronicum Migrans

### ■ Etiology

- Caused by a spirochete called *Borrelia Burgdorferi*
- Transmitted by the bite of certain ticks (deer, white-footed mouse)
- 1st cases were in 1975 in Lyme, Connecticut
- Affects many systems
- Children more often affected than adults

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## This is NOT a Lyme Bearing Tick



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## Lyme Bearing Tick



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## Erythema Chronicum Migrans

- Symptoms
  - 3-21 days after bite
  - Rash (present in 72-80% of cases)-slightly itchy
  - Lasts 3-4 weeks
  - Mild flu like symptoms (50% of time)
  - Migratory joint pain
  - Neurological and cardiac symptoms
  - Arthritis, chronic neurological symptoms

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## Erythema Chronicum Migrans

- Signs
  - Rash:
    - Begins as a papule at the site of the bite
    - Flat, blanches with pressure
    - Expands to form a ring of central clearing
    - No scaling
    - Slightly tender
  - Arthralgias:
    - Asymmetric joint erythema, warmth, edema
    - Knee is most common location

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## Erythema Migrans



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## Erythema Migrans



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## Summer 2009



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## Erythema Chronicum Migrans

- Signs
  - Systemic symptoms
    - Facial palsy
    - Meningitis
    - Carditis

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## Erythema Chronicum Migrans

- Plan
  - Diagnostic:
    - Sed rate: usually normal
    - Lyme Titer
      - IGM: Appears first: 3-6 weeks after infection begins
      - IGG: Positive in blood for 16 months
      - High rate of false negatives early in the disease
    - Lyme Western Blot

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## Per ILADS

- “Diagnosis of Lyme disease by two-tier confirmation fails to detect up to 90% of cases and does not distinguish between acute, chronic, or resolved infection”
- “The Centers for Disease Control and Prevention (CDC) considers a western blot positive if at least 5 of 10 immunoglobulin G (IgG) bands or 2 of 3 immunoglobulin M (IgM) bands are positive. However, other definitions for western blot confirmation have been proposed to improve the test sensitivity. In fact, several studies showed that sensitivity and specificity for both the IgM and IgG western blot range from 92 to 96% when only two specific bands are positive”
  - Lyme specific bands: 31, 34, and 39

[http://www.ilads.org/lyme\\_disease/treatment\\_guidelines\\_clearing\\_ilads.html](http://www.ilads.org/lyme_disease/treatment_guidelines_clearing_ilads.html)  
Accessed 12/20/2013

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## Erythema Chronicum Migrans

- Plan
  - Therapeutic: Per CDC
    - Amoxicillin 500mg tid x 21 – 28 days
    - Doxycycline 100 mg 1 po bid x 21 – 28 days
    - If in endemic area and tick is partially engorged, may treat with doxycycline 200 mg x 1 dose with food

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## ILADS

- Believe in Chronic Lyme Disease
- Treatment may be continued as long as needed to treat symptoms
- Alternative recommendations are made:
  - Doxycycline 100-200 mg bid or TCN 500 mg 1 bid
  - Clarithromycin 500 mg 1 po bid along with hydroxychloroquine 200 mg 1 two times daily
  - Azithromycin 500 mg once daily

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## Necrotizing Fasciitis

- Severe, deep, necrotizing infection
- Involves subcutaneous tissue down into the muscles
- Spreads rapidly
- Caused by Group A Beta Hemolytic Strep, Staph, Pseudomonas, E Coli
- Mortality: 8-70% depending upon organism and rapidity of treatment
- Disfigurement common

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## Necrotizing Fasciitis

- Symptoms
  - Usually occurs after surgery, traumatic wounds, injection sites, cutaneous sores
  - Generalized body aches, fever, irritability
  - Key: Red area of skin that is severely painful (It is out of proportion to findings)
  - Leg is most common location
- Physical Examination Findings
  - 1st appears as local area of redness that looks like cellulitis

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## Necrotizing Fasciitis

- Physical Examination Findings
  - Tender
  - Bullae with purulent center which ruptures quickly
  - Black eschar appears and the pain decreases
  - Systemic symptoms begin

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## Necrotizing Fasciitis



Bullae: Below these lesions is necrotic tissue

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## Necrotizing Fasciitis

- Plan
  - Diagnosis: Culture of wounds, blood cultures, biopsy of area, CBC with differential, urinalysis
  - Therapeutic: HOSPITAL ADMISSION
  - Educational: Good wound hygiene

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## Stevens-Johnson Syndrome

- Distinct, acute hypersensitivity syndrome
- Many causes: Drugs, bacteria, viruses, foods, immunizations
- Also known as Bullous Erythema Multiforme
- Stevens-Johnson Syndrome is thought to represent the most severe of the erythema multiforme spectrum
- Two stages
  - Prodrome which lasts 1-14 days
  - 2nd stage: mucosal involvement where at least 2 mucosal surfaces are involved (oral, conjunctival, urethral)

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## Stevens-Johnson Syndrome

- Mortality: 5-25%
- Long-term complications are common
- Face almost always involved and mouth always involved
- Entire course: 3-4 weeks
- Most common in children aged 2 - 10

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## Stevens-Johnson Syndrome

- Symptoms
  - Constitutional symptoms such as fever, headache, sore throat, nausea, vomiting, chest pain, and cough
- Physical Examination Findings
  - Vesicles that are extensive and hemorrhagic
  - Bullae rupture leaving ulcerations which are covered with membranes
  - Leave large areas of necrosis and skin peels
  - Lesions on the conjunctiva

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## Erythema Multiforme



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## Erythema Multiforme



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## Stevens-Johnson Syndrome



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## Stevens-Johnson Syndrome



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## Stevens-Johnson Syndrome

- Plan
  - Must rule-out staphylococcal scalded skin syndrome
  - Therapeutic: HOSPITALIZATION with early ophthalmological evaluation
  - Steroids are controversial
  - Others in family may be genetically susceptible
  - Never take these medications again

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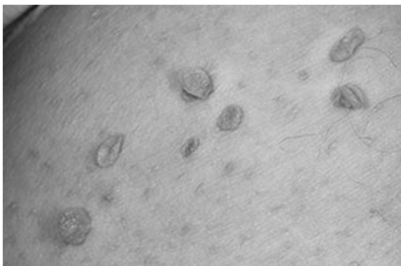
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Diagnosis?  
Linked with \_\_\_\_\_?



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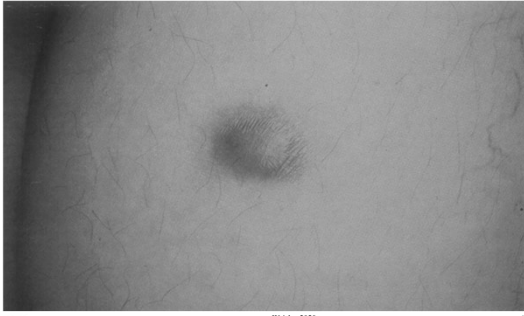
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## Dermatofibroma



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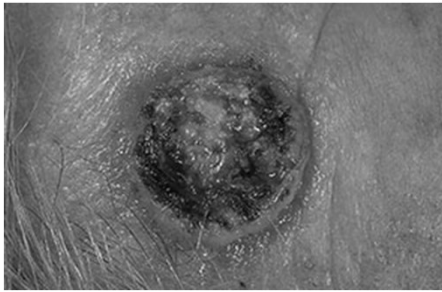
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## Squamous Cell Carcinoma



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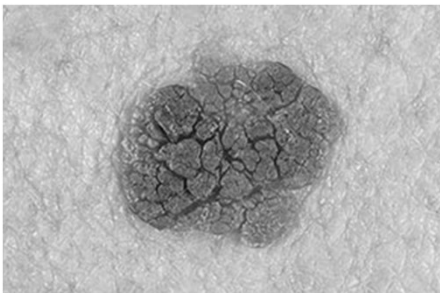
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## Seborrheic Keratosis



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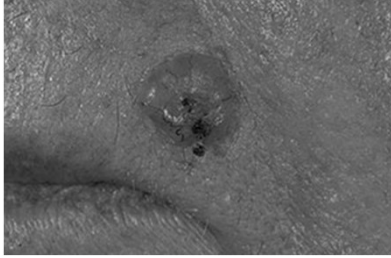
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## Basal Cell Carcinoma



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## Malignant Melanoma



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## Squamous Cell Carcinoma



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## Molluscum Contagiosum



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## Thank You!

### I Would Be Happy To Entertain Any Questions

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