

ERYTHEMA NODOSUM - EN

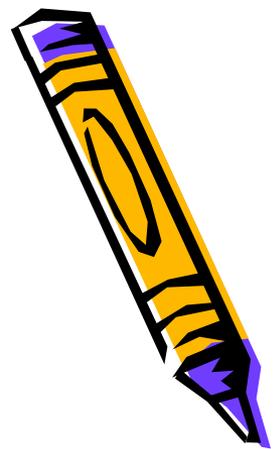
Orna Katz

Internal Medicine B
Sheba Medical Center

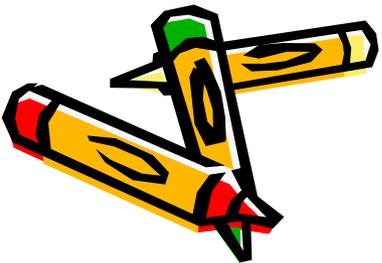
11/2009



Erythema Nodosum- Definition



- Painful Inflammatory process involving the septa between subcutaneous fat lobules with radial granulomas with no vasculitis
- Most common type of Panniculitis
- Tends to be self limited
- The shin is the most common location



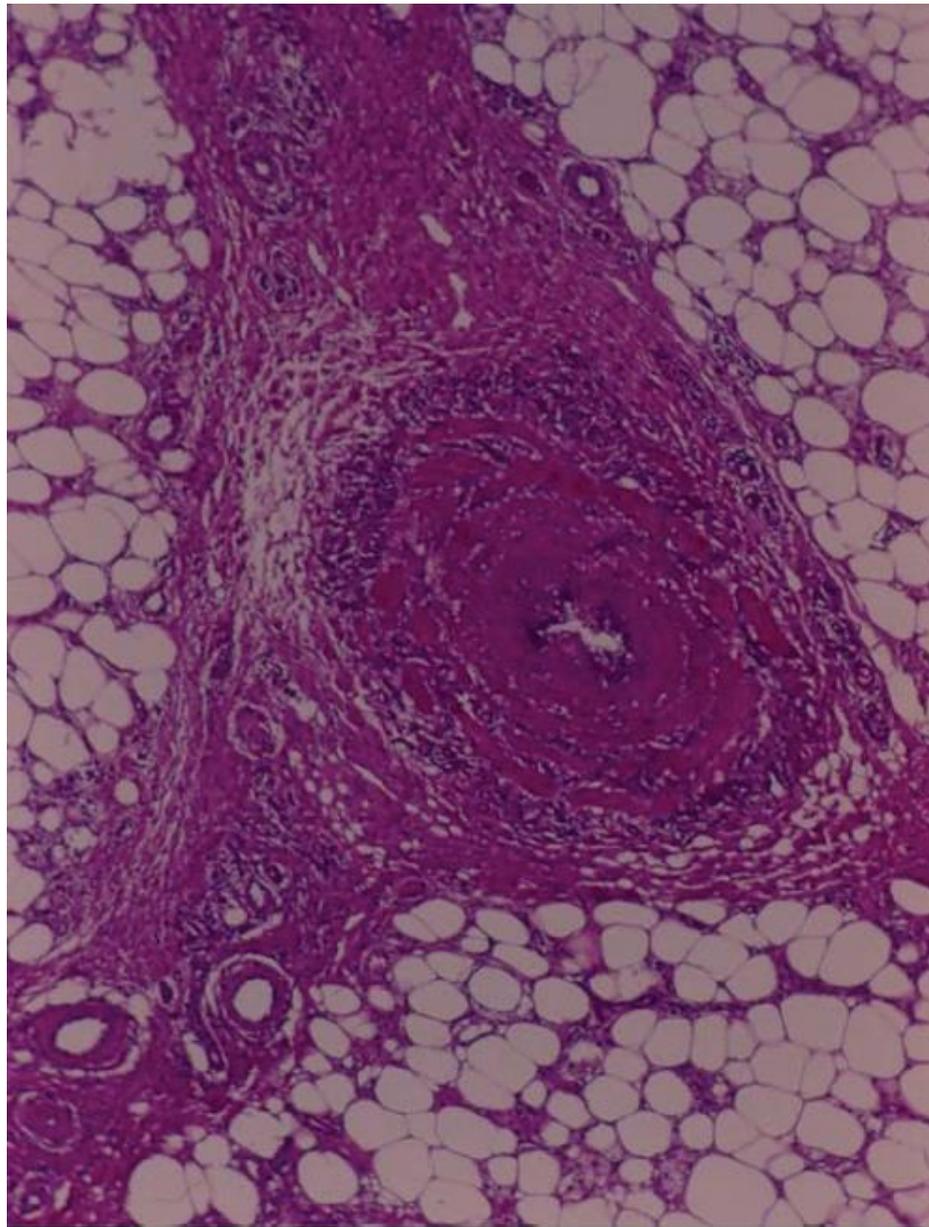
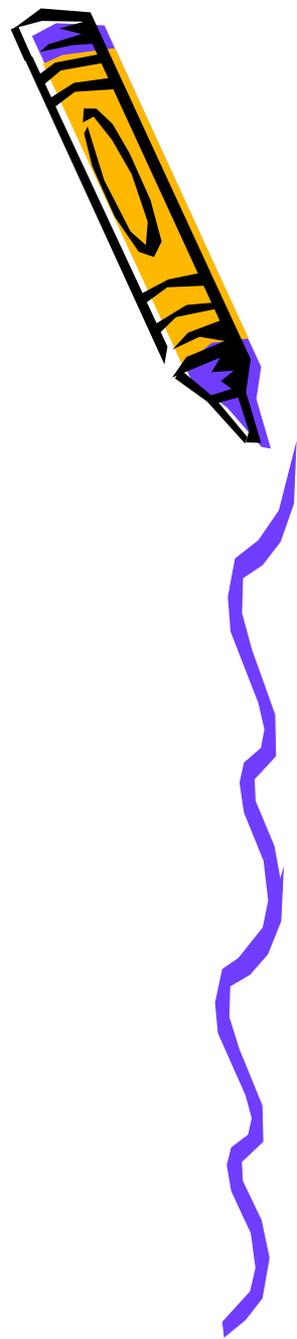
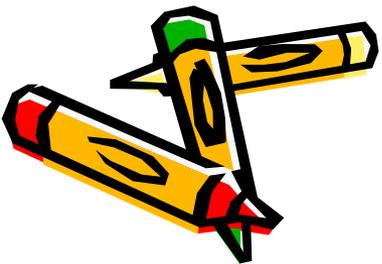
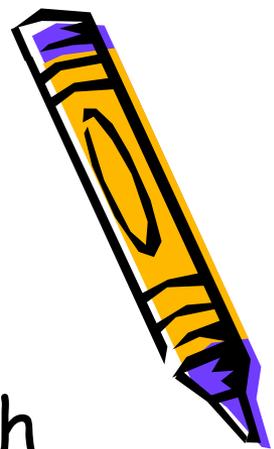


Figure 2. Histologic section. Fibrosis, swollen venules, and granulation tissue can be seen between fat lobules and the connective tissue septa.

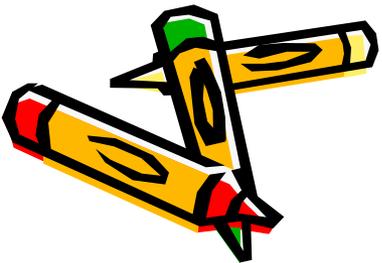


Erythema nodosum – Clinical features



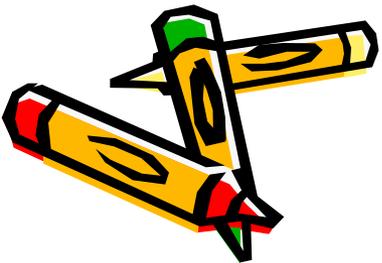
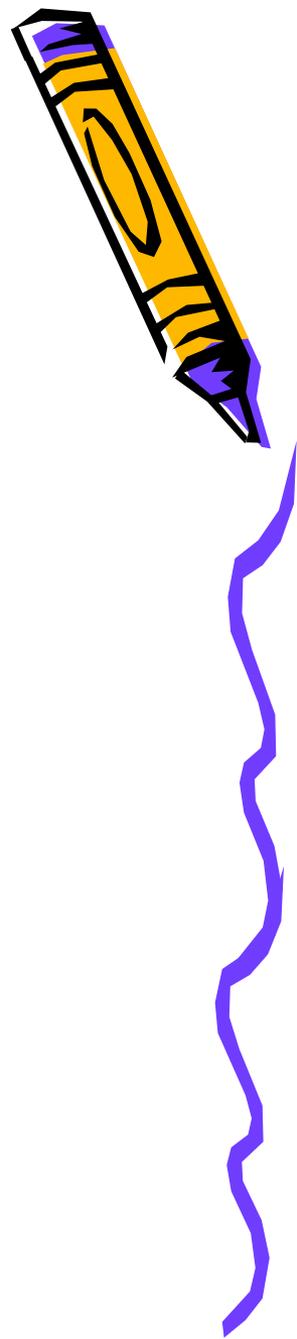
- Tender **painful**- highly sensitive to touch
- **Erythematous**
- Subcutaneous nodules
- Located **symmetrically** on anterior surface of lower extremities
- Does not Ulcerate

Usually resolves without atrophy or scarring
– within 2-8 weeks.

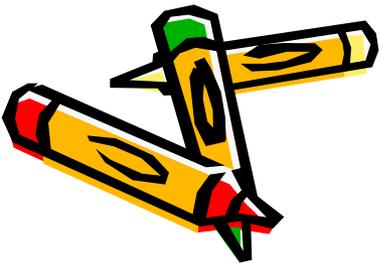
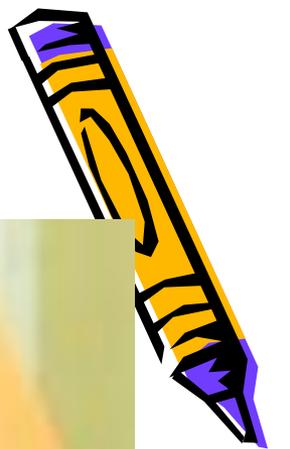


Erythema nodosum – Clinical features

- Polyarthralgia
- Fever
- Malaise
- Elevated ESR



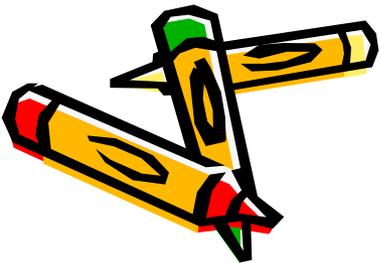
Erythema nodosum



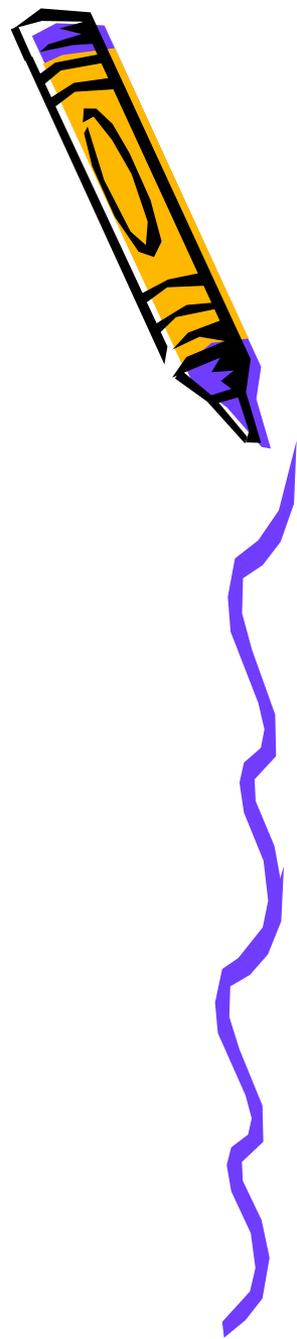
Erythema nodosum- Etiology



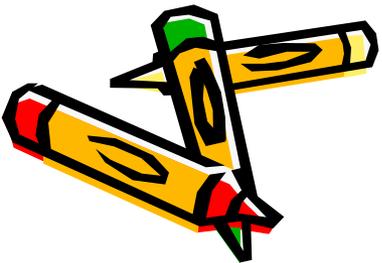
- m/p – involvement of type 4 hypersensitivity response to numerous Ag.
- recent streptococcal infection



Erythema nodosum –Dg workup

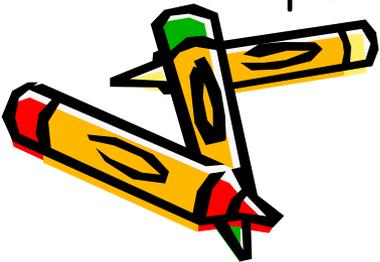
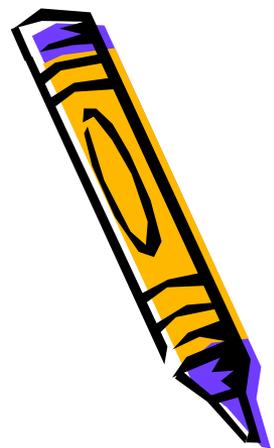


- CBC complete blood count
- ESR erythrocyte sedimentation rate
- CRP
- Streptococcal evaluation Throat culture, ASO titer, PCR
- Bx deep incisional
- TB evaluation- PPD, chest radiograph, stool culture
- Liver enzymes , bilirubin, albumin



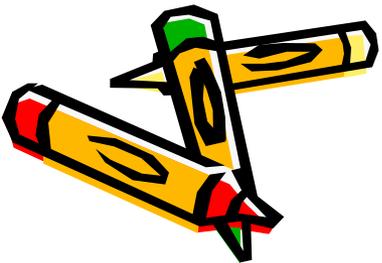
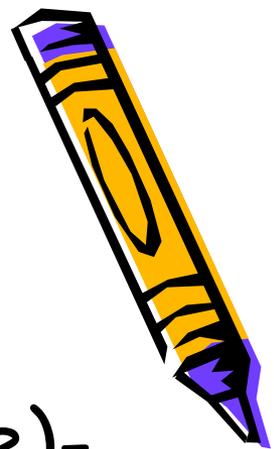
Erythema nodosum - causes

- **Streptococcal pharyngitis** – throat culture, ASO titer
- Sarcoidosis – Northern Europe and north America
- Lofgren's syndrome – 1.hilar adenopathy 2.acute polyarthritits 3.EN
- **Tuberculosis** - endemic regions
- Coccidioidomycosis
- Histoplasmosis
- Inflammatory bowel disease – Crohn's disease.
- Drugs -oral contraceptives, sulfonamides, penicillins, bromides, iodides).
- Cancer
- Less common associations include bacterial gastroenteritis (*Yersinia*, *Salmonella*), *Chlamydia pneumoniae*, brucellosis, and infections with or *Chlamydia trachomatis*, *M. pneumoniae*, or hepatitis B virus.
- Leprosy
- Idiopathic- exclusion

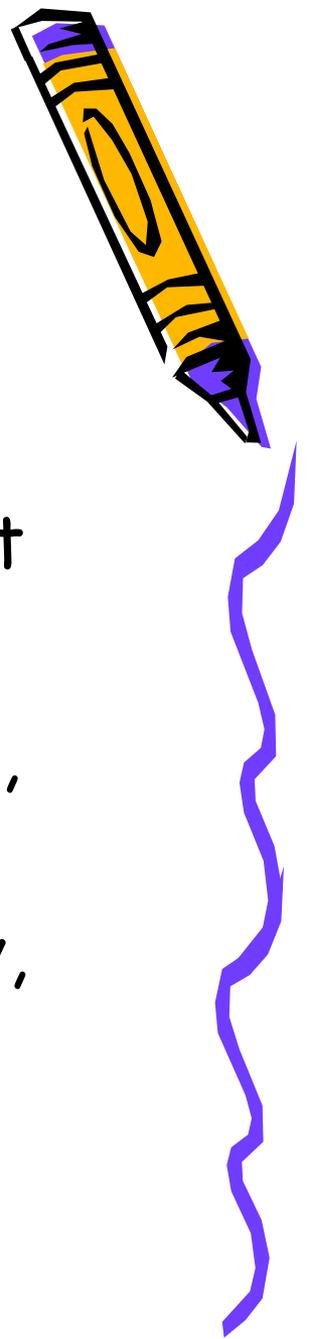


Erythema nodosum - DD

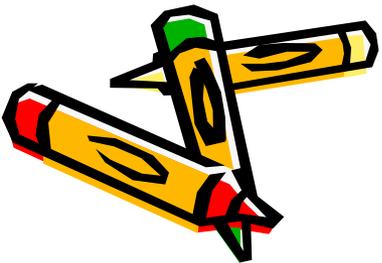
- Erythema induratum (Bazin disease)- posterior legs, ulceration, recurrence (TB)
- Weber christian disease
- Superficial thrombophlebitis

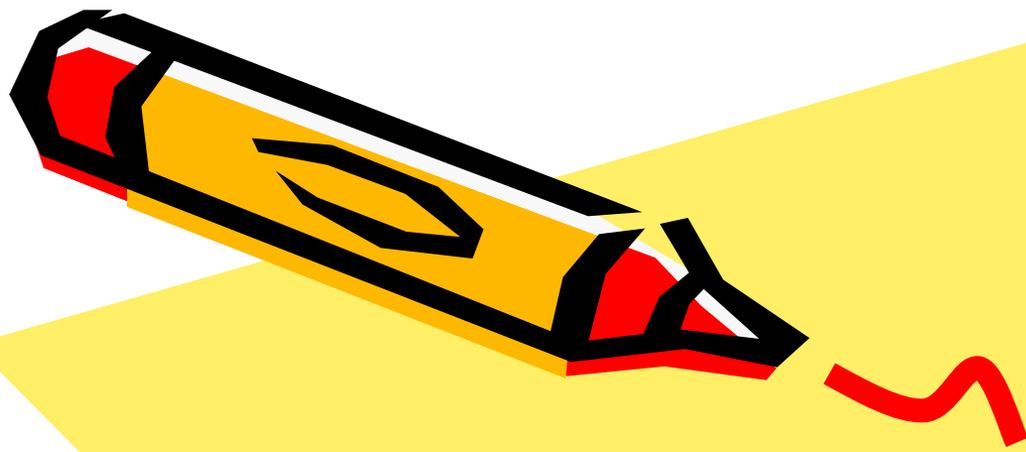


Weber christian disease



- Relapsing febrile nodular Panniculitis
- Infiltrative inflammatory disease of fat
- Occurs in young white females
- Tender skin nodules , fever, arthralgias, myalgias
- Typical –subcutaneous nodules- atrophy, induration,scarring hyperpigmentation



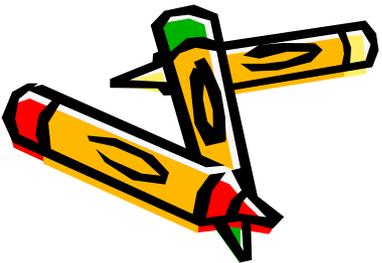
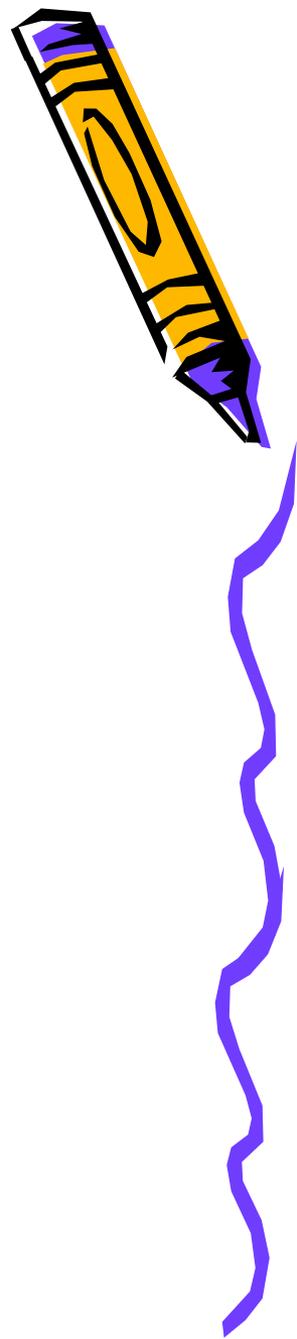


Okay now forgot about
Weber christian
disease....



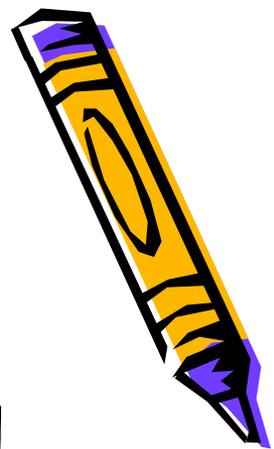
Erythema nodosum- treatment

- Usually self limited
- Symptomatic
- Rash- NSAIDs, potassium iodide



Erythema nodosum - Conclusion

- Be alert since it is mostly a clinical Dg!!! That can point to other diseases.



Thank you!

