In the Name of GOD

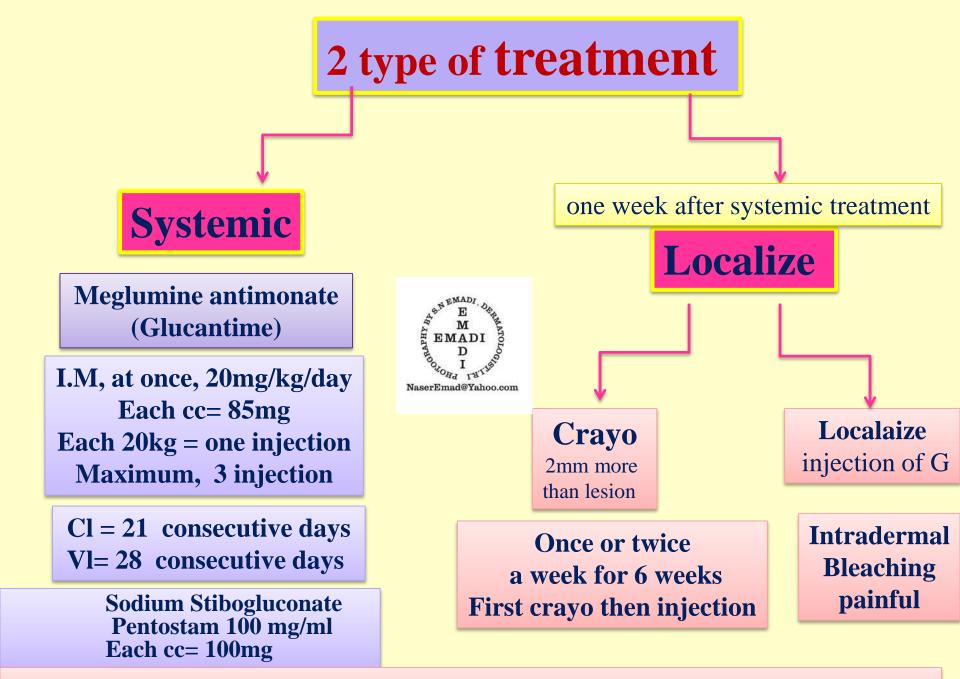
Cutaneous leishmaniasis

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Crayotherapy alone for the lesions on acral area might be harmful

Most lesions usually have 3parts:

1- Crust or necrotic space at the surface of center

due to dry exodus, dead cell & parasites

2-Granulation tissue at the base of center lesion

causes the scar after healing

3- Erythema at periphery of lesion

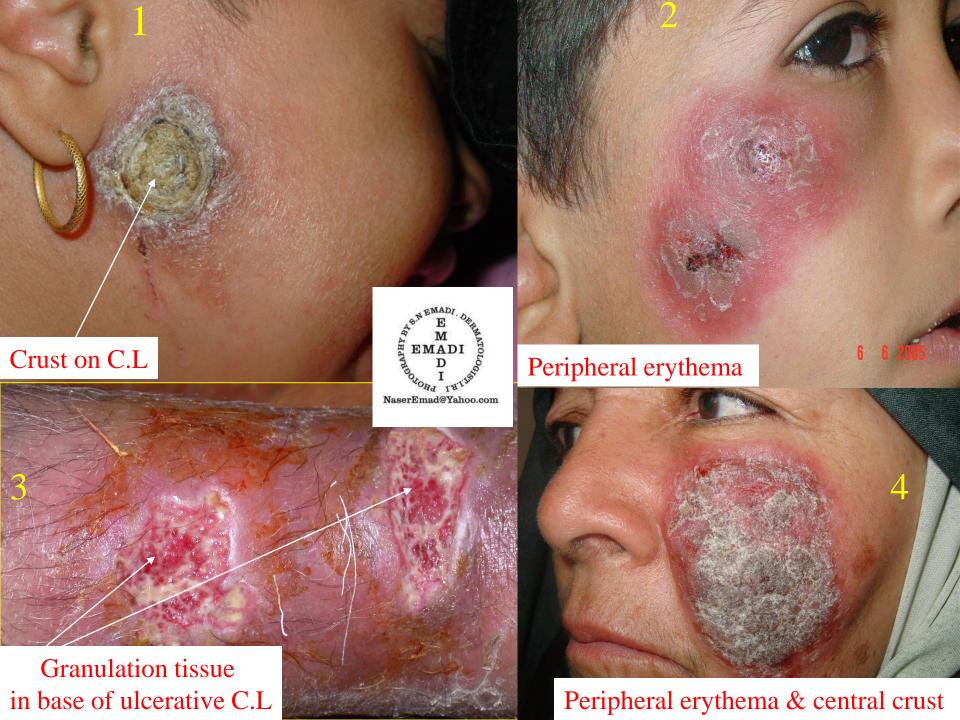
contains active parasites that can be able to expand











Why local injection by Triamcenolone - Glucantime 1:20?

Previous studies show

- Cause & severity of C.L is combination of:
 - (a) Infectivity of parasites in all patients
 - (b) High activity of immune cell systems in some patients

Example: M.L & Old L.C.L are initially inflammatory with infiltration of lymphocytes,

histiocytes but few parasites even the other name for C.L is macrophage disease.

So severe and persistent inflammation can produced big & permanent Scars

Therefore

- our treatment strategy is :
 - (a) Kill the parasites by Glucantime
 - (b) Reduce the scar due to decreased inflammation by Triamcenolone



How cryotherapy & local injection by Triamcenolone-Glucantim 1:20?

- 1-we chose a patient with up to 3 lesions and diameter less than 2cm
- 2- Combination therapy with Crayotherapy is better started after 3rd injection
- 3- Crayo should be done before INJ because:
- (a) it causes mild Anesthesia in the injection site
- (b) Crayo after INJ may reduce the effect of INJ Glucantime due to freezing(-1
- 4- Before INJ compare the length of needle with the INJ site (lesion)
- 5- The insertion site should be one from periphery to center, needle can be rotated inside the lesion without removing .

 For more insertions needle must be changed to prevent incubatio
- 6 Leishmania parasites infect the dermis
 SO Best INJ is intradermal & periphery of lesion
- 7- Low pressure in fragile tissue in the center of lesion can slowly absorb Glucantime from periphery without leaking SO no need for direct INJ in center lesion.
- 8-Confirmation of intradermal INJ signs are
 (a) Hardening (b) pain (c) bleaching during INJ
- 9- Injection process twice a week for 6 weeks

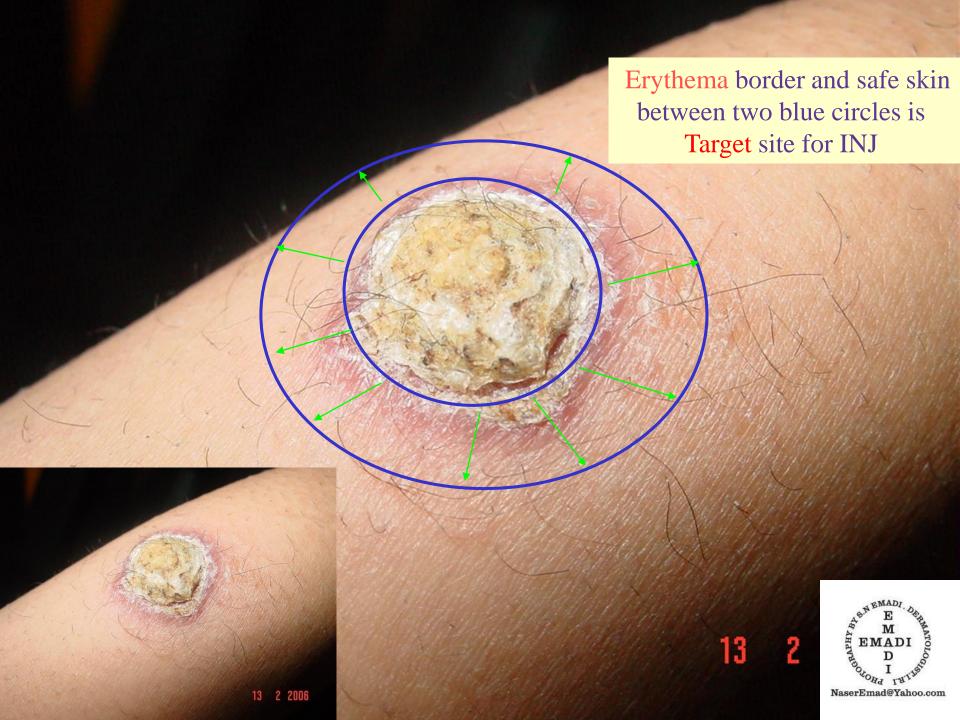
















Removing of the needle for rotation supposed to be done up to 2mm before insertion point

Why should the needle be changed after the first insertion?



Cause of the unexpected Small papules (fig 2) after 2months of treatment in periphery may be related to incubation & transfer Of leishmania by contaminated tip of needle from the first insertion to second or more insertions because the needle was not changed.





