

Chromoblastomycosis

- * Chromomycosis
- * Verrucous dermatitis
- * A chronic fungal infection of the skin and subcutaneous tissues caused by pigmented fungi which produce thick walled single or multicelled clusters (sclerotic or muriform bodies) in tissue

* Characterized by the production of slow growing exophytic lesions usually on the feet and legs

* Chromoblastomycosis is caused by several fungi. the most common:

- * *Phialophora verrucosa*
- * *Fonsecaea pedrosoi*
- * *F. compacta*
- * *Cladophiala carrionii*

Rare causes:

* *Phinochadiella aquaspersa*.

The causative fungi have been isolated from wood & soil, and the infection usually results from trauma such as a puncture from a splinter of wood. The condition is usually found in rural communities.

* All these fungi are named according to the dominant form of conidiation.

Phialophora verrucosa.

Microscopy: dominant form of conidiation is the production of flask-shaped phialides with a pronounced dark collarette at the apex.

* hyaline thin-walled elliptical conidia are produced at the tip of the phialide in basipetal succession.

Fonsecaea pedrosoi:

* Microscopy: dominant form of conidiation is sympodial with the conidia confined to the upper part of the cell.

* The brown single-celled conidia are produced on short dendrites and may in fact produce secondary conidia in a similar manner.

* Conidia produced by acoenocytic budding.

Lab diagnosis:

* Invasive of species. The pathogen can be seen in biopsy sections as deeply pigmented thick-walled multiniform or sclerotic cells.

* Occasionally in superficial skin scrapings from the surface of the lesions pigmented hyphal masses the sclerotic cells are seen.

Cultures

* Colonies of all species are dark grey - green to black and velvety on downy with a black reverse.

* Three forms of conidial production are observed in the most common agents of infection.

* acropetal budding

* production of phialides

* sympodial conidiation.

Flucytosine

* Flucytosine is on its own or combined with amphotericin B may also be effective but resistance to flucytosine may develop if used

* surgery is usually only indicated in very small lesions combined with chemotherapy.

Differential diagnosis:

* Blastomycosis

* Blastomycosis by the absence of a sharp border containing main abscesses and also the of pulmonary lesions

* cutaneous tuberculosis

* leishmaniasis, Syphilis, yaws.