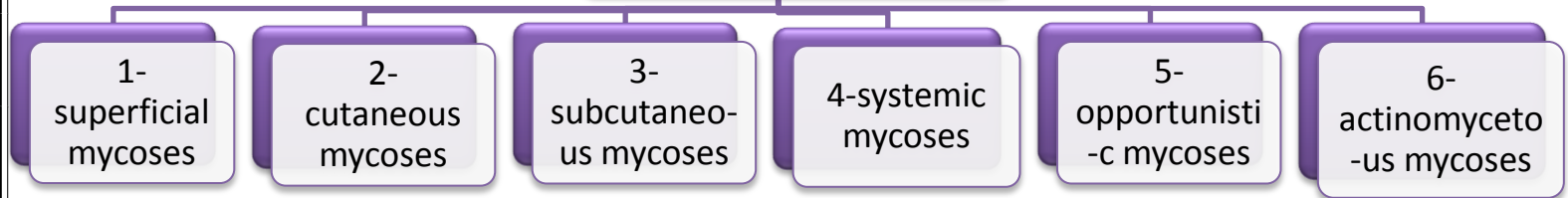


Group of Fungal infection



1-superficial mycoses

- Superficial fungal infection which affect the stratum corneum (the most outer layer of the skin, hair shaft and nails).
- They don't cause pain and don't provoke the immune response because they don't produce antibodies.

The infection are caused by



	1- Tinea versicolor (pityriasis versicolor)	2-Tinea nigra (Tinea Palmaris/ plantaris)
About name :	pityrosporum orbic (old name)	Pheoanellomices whernikii (New name)
Etiology : (Caused by)	Malassezia Furfur <ul style="list-style-type: none"> • It is a chronic superficial fungal infection. • Affects the upper most dead tissue of the skin. 	Exophiala wernikii <ul style="list-style-type: none"> • It is a chronic superficial fungal infection. • it affects sole of foot and palm of hands. • It is found in agriculture (soil, woods, plants)
Clinical features:	Brown or discolored white patches, they don't tan even when exposed to sun light.	Brown macules or black stripes. Exophiala werneckii : it is dematiaceous imperfect mold fungus, dark in color and slowly growing.
Laboratory diagnosis:	<ul style="list-style-type: none"> • Specimen: skin scraping • Direct microscope examination: before you examine the sample under microscope , add 10%-20% KOH • You will see short hyphal strands and round yeast cells (spaghetti and meat ball appearance) • Culture on SDA and mycobiotic medium 	<ul style="list-style-type: none"> • Specimen : skin scraping in 10% or 20% KOH will show brown septate hyphae. • Culture (on SDA and mycobiotic): will grow the dematiaceous fungus.

3- Piedra :

- It is chronic superficial fungal infection .
- Nodules or Encrustations on hair shaft .
- The nodules are composed of fungal elements.
- Usually affect the scalp hair, mustache and beard hair.
- It is found in Tropics and subtropics.

	Black piedra	White piedra
Attachment to shaft	Firm	Loose
Texture	Hard	Soft
Color	Black – Brown nodules	White- creamy (found in KSA)
Etiology	Piedra hortae: Perfect mold, reproduces sexually by forming Ascospores.	Trichosporon Begillii : Imperfect yeast, friable nodules, has pseudohyphae, form blastospores and arthrospores.
Laboratory Diagnosis	<ul style="list-style-type: none">- Hair with nodule on 10% - 20% KOH.- culture on mycobiologic and SDA	<ul style="list-style-type: none">- Culture on SDA no cycloheximide, cream beige yeast with wrinkled surface.- No growth on mycobiologic.

Treatment of superficial :

Tinea versicolored and Nigra	Piedra
<ul style="list-style-type: none">• 2% salicylic acid ointments• 3% sulfur ointments• Whitfield benzoic acid ointment	<ul style="list-style-type: none">• Cut or shave hair and clean with mild Fungicide (bichloride of mercury)• Nizoral shampoo (ketoconazole)

- Nizoral is an antifungal drug.