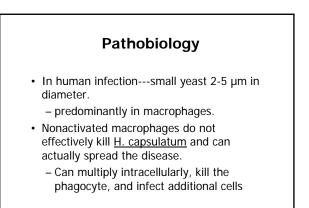


Histoplasma capsulatum Disease

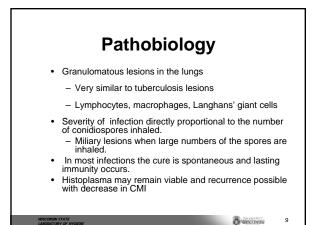
- Usually self limiting flu-like illness and does not require medical intervention.
 - 90% asymptomatic
 - 4:1 male predominance for clinical disease
 - Infants and young children more likely symptomatic
 - Chronic pulmonary disease
 - Disseminated disease in immunocompromised

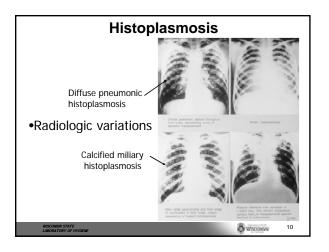
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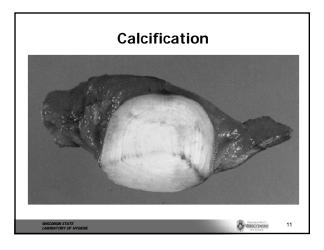


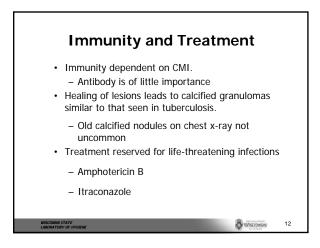
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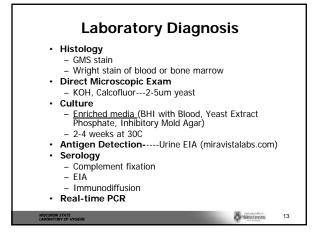
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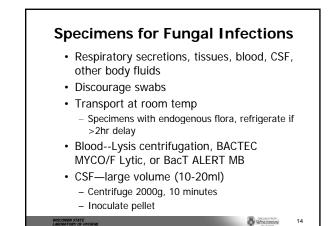


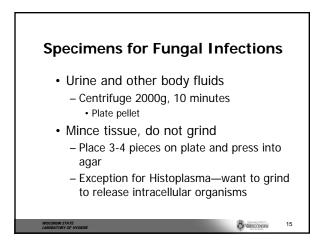




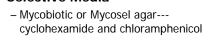






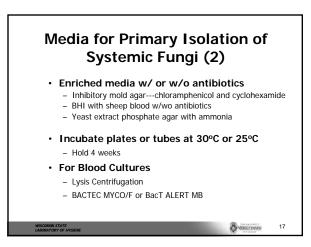




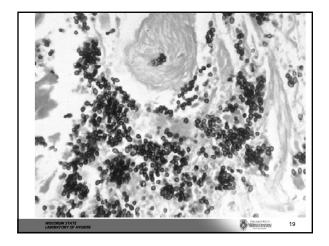


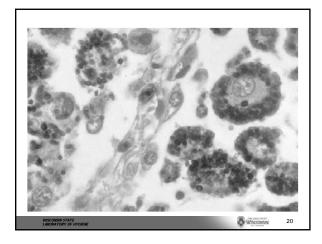
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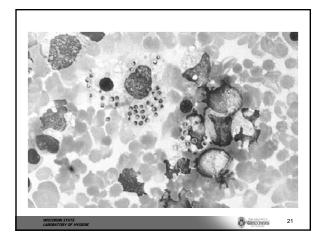
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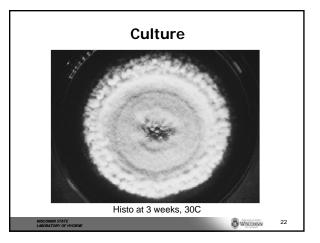


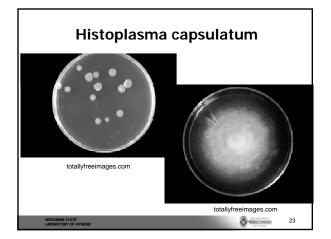


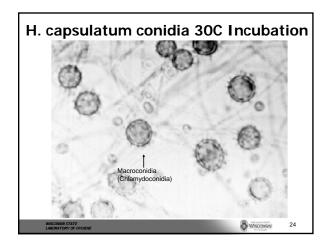


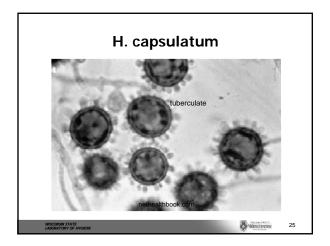


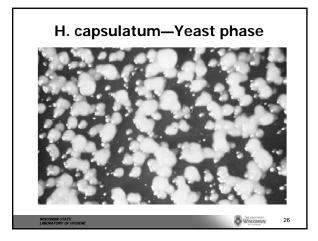


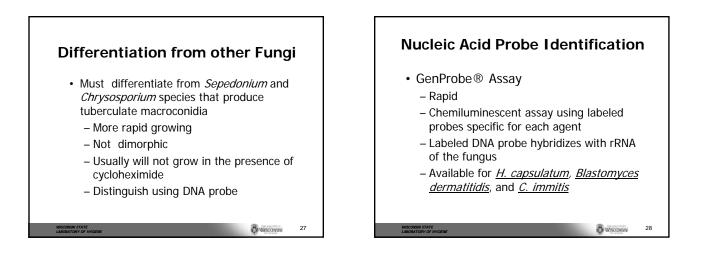




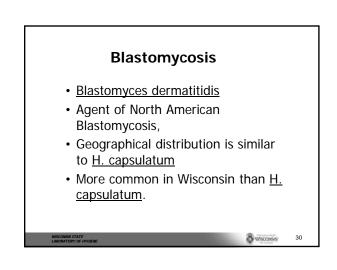


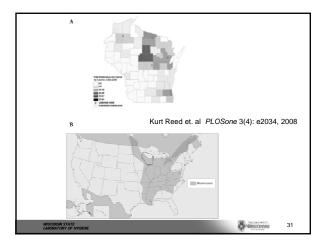


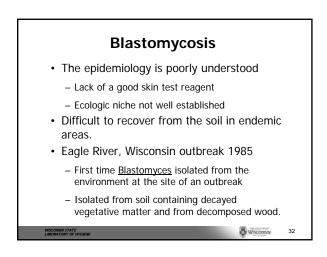


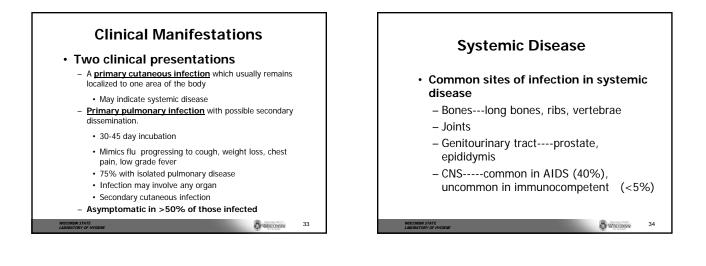












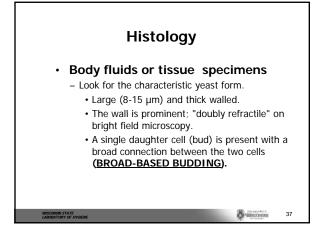
Cutaneous Form

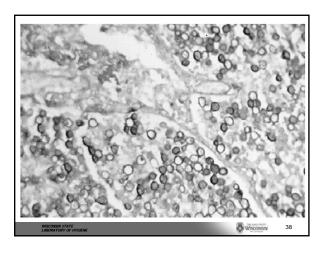
- A chronic suppurative granulomatous lesion.
- The presence of epithelial microabscesses and characteristic yeasts in the tissues is considered diagnostic.
- It is important to obtain urine and sputum samples from a patient with cutaneous blastomycosis since systemic spread may occur.

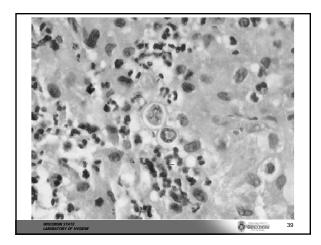
WISCONSIN STATE LABORATORY OF HYGIENE



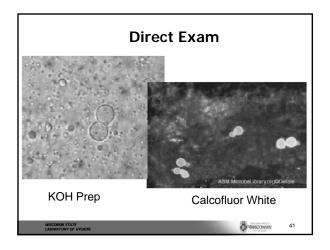


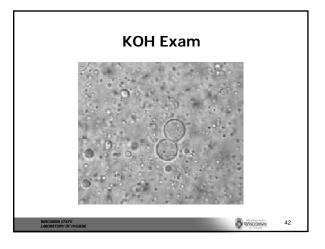


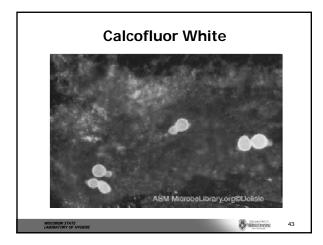


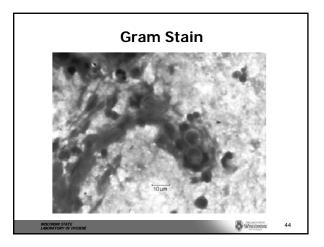


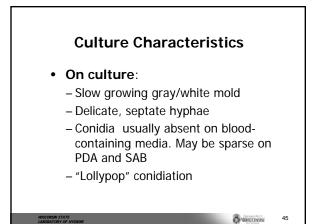


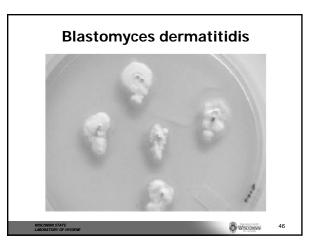




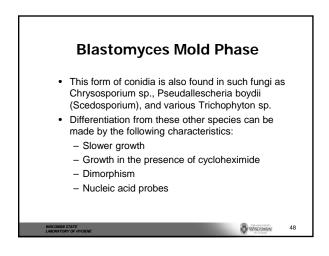




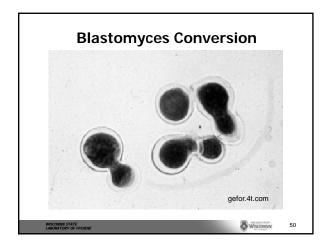


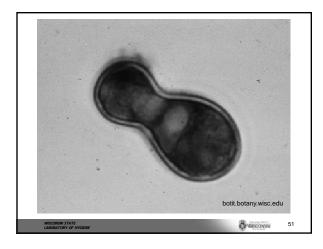


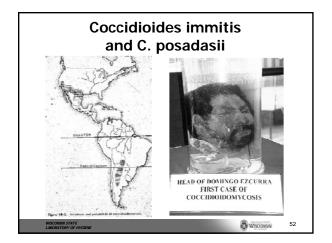


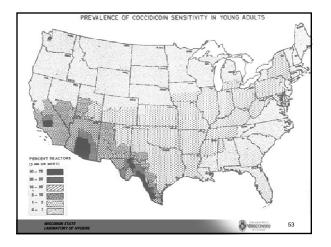


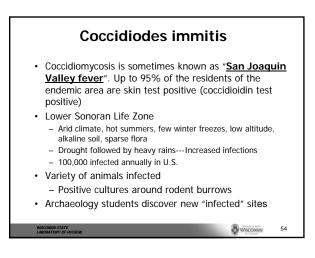


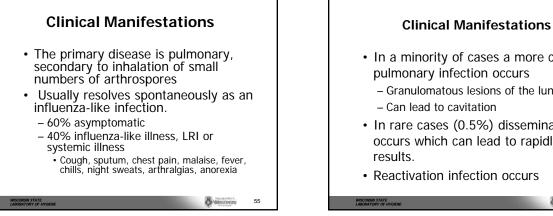


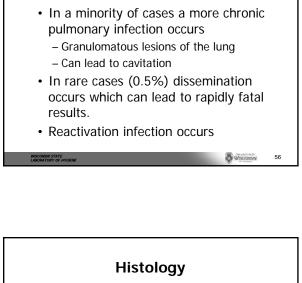


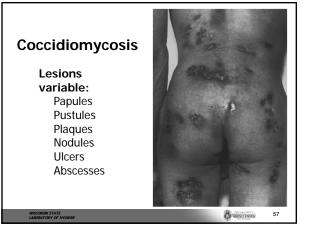


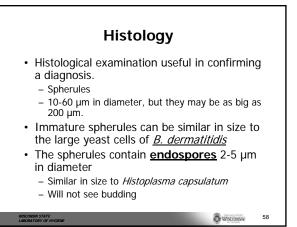


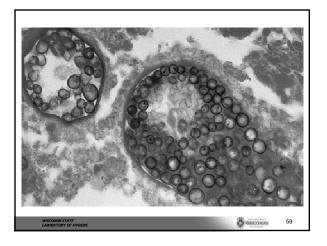


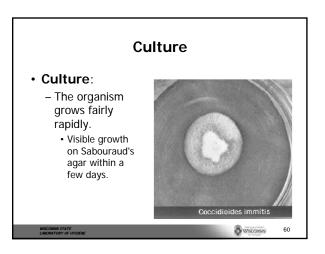










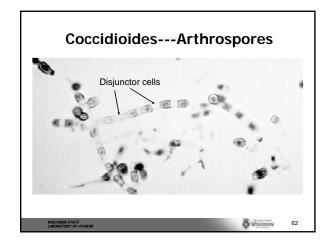


Microscopic Features

· Arthrospores:

- Formed by fragmentation of hyphae
- Very thick walled. Provides them with resistance to drying.
 "Barrel-Shaped"
- As a culture ages on media the entire hyphal mass may fragment and form arthrospores.
- Spores are extremely infectious Handle with extreme care.
- **Remember**: Arthrospores can be made by other fungi.
 - Malbranchea sp., Gymnoascus uncinatus, Auxarthron sp.
 - $\underline{\text{Geotrichum}}$ and $\underline{\text{Trichosporon}}$ can also form arthrospores
- · Confirm the identification nucleic acid probe test

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Select Agent Regulations

- Report to CDC within 7 days of ID
 Responsibility of lab confirming ID
 - Select Agent APHIS/CDC Form 4
- Secure against loss, theft, or release
- Destroy all subcultures and specimens
- Good News

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Proposed to remove Coccidioides from SA list

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