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Pathology Page

Chromomycosis

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An 87-year-old man who was a retired farmer came to our hospital. One verrucous-like lesion measuring $3.0 \times 2.0 \,\mathrm{cm}$ on his left lower leg was found. Malignancy was suggested. Incisional biopsy was performed. Microscopically, we found suppurative granuloma with brown-colored sclerotic cells (muriform cells) that were diagnostic of chromomycosis. Chromomycosis is a chronic skin infection caused by several species of fungi that live as saprophytes in the soil and decaying

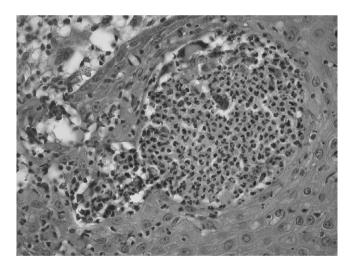


Fig. 1 — Histopathology shows pigmented spores resembling "copper pennies" surrounded by neutrophils (hematoxylin & eosin, $400\times$).

vegetable matter. The fungi are brown, round, thickwalled, measure 8 µm across, and have been described as "copper pennies". The histopathology is characterized by cutaneous suppurative granulomas containing "sclerotic cells" or "muriform cells" without hyphae formation. The infection is most commonly seen in barefoot agricultural workers in the tropics in whom the fungus is implanted during trauma, usually below the knee. The lesions begin as papules and, over the years, become verrucous, crusted, and sometimes ulcerated. The infection spreads by contiguous growth and through the lymphatic system. They may eventually involve the entire limb. In the primary stages, chromomycosis is best treated by surgical excision. In advanced cases, promising results have been obtained through the administration of amphotericin B. (Tzu Chi Med J 2009;21(1):89)

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