ABSTRACT BOOK ABSTRACTS



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

WET GAUZE APPLIED PRIOR TO SAMPLE EXTRACTION ENHANCES THE COMPLIANCE AND DIAGNOSTIC CAPABILITY IN TINEA CAPITIS OF KERION CAUSED BY TRICHOPHYTON INTERDIGITALE IN A CHILD

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Background: Tinea capitis is a childhood infection of hair, follicle and scalp caused by dermatophytes estimated to carry 1% of all superficial fungal infections. The clinical forms of tinea capitis consist of favus, black-dotted ringworm, tinea alba and Kerion. Among them, Kerion is the severest form of inflammatory reaction presented with a prominent cervical or occipital lymphadenopathy. Scalp scrapings, calcium fluorescent microscopy, and fungal culture with Sabouraud's agar containing chloramphenicol and cycloheximide are the important diagnostic tools for tinea capitis.

Observation: We describe a 4-year-old Chinese girl presented with fever, pain, erythematous, boggy swelling plaque and purulent discharge in the central part of the scalp for 2 months. She had a history of contact with rabbit as a source of transmitters. In order to reduce her anxiety during sample extraction, gauze piece soaked in sodium chloride solution was placed on the infected site for around 5 minutes. It helped soften the cuticle surface of hair debris by moisture absorption. The child was more comfortable. Wet gauze enhanced the compliance enabling painless plucking of hair debris during the routine examination. Calcium fluorescent microscopy of hair debris showed irregular septate hyphae and spores around the hair root. Trichophyton interdigitale was identified by PCR-sequence of Internal Transcribed Spacer analysis using the primers ITS1 and ITS4. The child responded well to oral administration of itraconazole 100 mg (5mg/kg/day) once daily with milk, daily hair washes with 2% ketoconazole shampoo and application of 1% naftifine and 0.25% ketoconazole cream over the course of 3 months.

Key message: Trichophyton interdigitale is one of the main zoophilic species that produce





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intense inflammatory responses with Kerion in human. Therefore, this case mainly focuses on the enhanced diagnostic capability by wet gauze in tinea capitis prior to routine mycologic examinations for quick, precise recognition, diagnosis and therapeutic effect evaluation.



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