

Evaluation for methods of Diagnosis of Onychomycosis and a cross-sectional Study for patients with onychomycosis

thesis

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Fungal nail infection

(onychomycosis) is a common chronic disease with a substantial negative effect on the quality of life to those who suffer from it and traditionally been difficult to diagnose and treat and has physical and psychological consequences for the patient.

Onychomycosis is the most common nail disorder and probably represents about 30% of all cutaneous fungal infections. Although not life-threatening; onychomycosis constitutes an important public health problem because of its high prevalence and the associated morbidity. The prevalence of onychomycosis increases with age. Several predisposing factors increase the prevalence of onychomycosis as excessive sweating, occlusive foot wear, trauma, poor peripheral circulation, diabetes and immunodeficiency.

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List of Abbreviations

AIDS.....	Acquired immunodeficiency diseases
AVA.....	arteriovenous anastomosis
C. albican.....	Candida albican
C. glabrata.....	Candida glabrata
C. krusei.....	Candida krusei
C. parapsilosis.....	Candida parapsilosis
C. tropicalis.....	Candida tropicalis
CHSI.....	chitin synthase 1 gene
CMI.....	cell mediated immunity
D.W.....	Distilled water
DIP.....	distal interphalangeal joint
DLSO.....	Distal and lateral subungal onychomycosis
DM.....	Diabetes mellitus
DMSO.....	Potassium hydroxide with Dimethyle sulfaoxid
DTM.....	Dermatophyte test medium
DYC.....	Daughter yeast cell

List of Abbreviations (Cont.)

ELISA.....	enzyme-linked immunosorbent assay
GlcNAc	<i>N</i> -acetyl-D-glucosamine
GMS.....	Gomori methenamine silver
GT.....	germ tube
H&S.....	Haematoxin and eosin
HBsAg.....	Hepatitis B surface antigen
HIVinfection.....	human immunodeficiency virus
IgG.....	immunoglobulin G
IgM.....	immunoglobulin M
KOH.....	potassium hydroxide
KONCPA	Potassium hydroxide treated nail clipping with periodic acid-schiff
NaOH.....	sodium hydroxide
NDM.....	non-dermatophytic mold
ODB.....	onychodermal band
PAS stain.....	periodic acid Schiff stain

List of Abbreviations (Cont.)

PCR-DM	PCR-based DNA microarray method
PNF.....	Proximal nail fold
PSO.....	ProximalSubungual Onychomycosis
RSM.....	Rapid sporulating medium
S.dimidiatum.....	Scytalidium dimidiatum
S.hyalinum.....	Scytalidium hyalinum
SDA.....	Sabouraud dextrose agar
SWO.....	Superficial white onychomycosis
T. tonsurans.....	Trichophyton tonsurans
T.mentagrophytes.....	Trichophyton mentagrophytes
HCV.....	Hepatitis C virus
T.soudanense.....	Trichophyton.soudanense
T.violaceum.....	Trichophyton violaceum
TDO.....	Total dystrophic onychomycosis
TRP.....	Tyrosinase-related protein UV-emitting Wood's light.....Ultraviolet emitting Wood's light
YMC.....	Yeast mother cell

INTRODUCTION