

2022-2023 Belgian national survey on terbinafine resistance among *T. interdigitale/mentagrophytes/indotineae*

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Objectives

The new emerging dermatophyte *Trichophyton indotineae* closely related to *T. interdigitale/mentagrophytes* has become a major concern in dermatology because of its **high resistance** to terbinafine. This species is at epidemic level in India giving rise to extended tinea corporis. Its spread in Europe has been already described. Mutations on the gene coding for squalene epoxidase (SQLE) have abundantly been observed among terbinafine resistant strains. Regarding this context, the National Reference Center for mycoses of the CHU of Liege (NRCML) conducted a study at the Belgian level to collect all *T. interdigitale/mentagrophytes/indotineae* isolated from skin and scalp. The aim of the study was to evaluate the situation in Belgium and characterize these strains in terms of identification and terbinafine (TERB) susceptibility. A phylogenomic study based on EF-1-alpha Sanger sequencing data was performed. Moreover, a characterization of the squalene epoxidase (SQLE) gene by sequencing was done.

Methods

Samples
18 participating laboratories all around Belgium. Strain collection from **February 2022 to May 2023**
→ 156 strains of *T. indotineae* / *interdigitale* / *mentagrophytes* from skin samples

DermaCheck screening

