



Nail Lacquer for Onychomycosis

Researchers from the Delhi-based Hamdard Institute of Medical Sciences and Research have developed a novel translucent **nail lacquer fortified with an antifungal drug Luiconazole** to treat onychomycosis.

- This drug-infused, quick-drying polymer can be easily **applied like nail polish**.
- The researchers tested the polymer on bovine hooves, as their outer structure is similar to that of the human nails. Over the 24 hours, 75% of the drug was released to the nail exhibiting its **ability for prolonged drug delivery**.

Onychomycosis

- It is a **fungal infection of the nails** that causes discoloration, thickening, and separation from the nail bed.
- It is caused by a variety of organisms, but **most cases** are caused by **dermatophytes** (fungi).
- It **affects toenails more often than fingernails** because of their slower growth, reduced blood supply, and frequent confinement in dark, moist environments.
- Accurate diagnosis involves physical and microscopic examination and culture.
- The treatment is aimed at eradication of the causative organism and return to a normal appearance of the nail.

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