

J02 - Antimycotics for systemic use



NEBULISED VORICONAZOLE IN LUNG TRANSPLANT RECIPIENTS: ANALYSIS OF USE, EFFICACY AND TOLERABILITY

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BACKGROUND

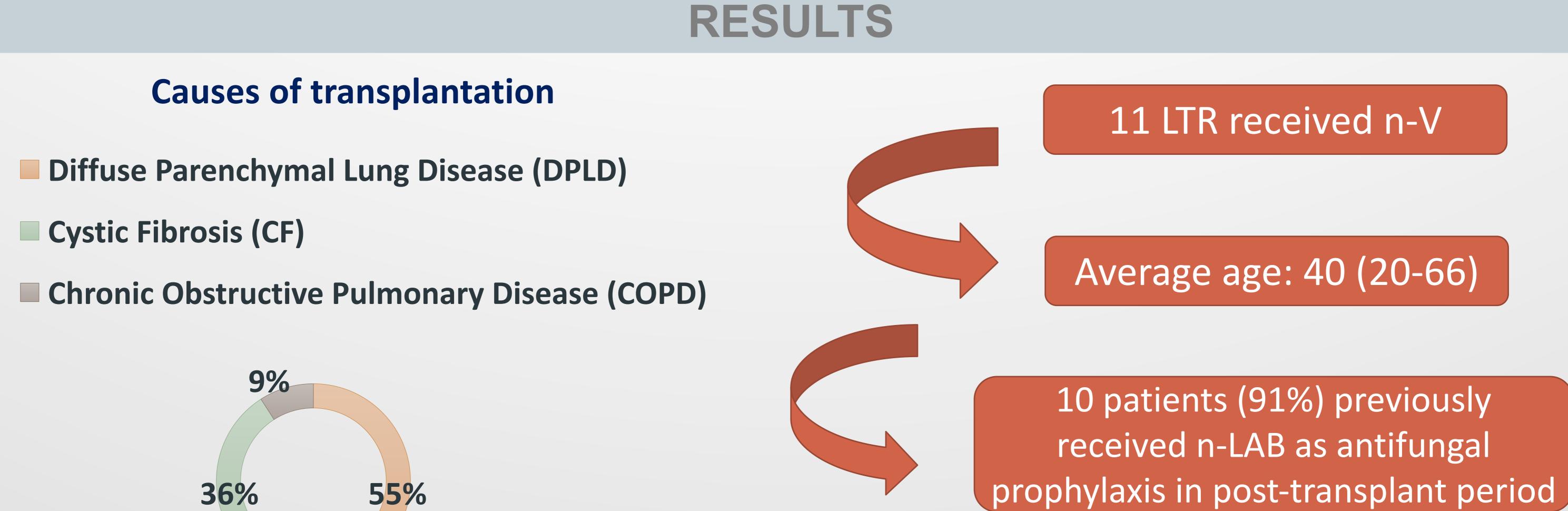
Fungal infection is a significant source of morbidity and mortality in lung transplant recipients (LTR). To avoid systemic toxicity, various nebulized antifungal agents are used after transplant to prevent or treat invasive fungal infections (IFI). Nebulised liposomal amphotericin B (n-LAB) has been widely used. However, some fungal agents with reduced amphotericin susceptibility, are emerging. Thus, new antifungal drugs are required.

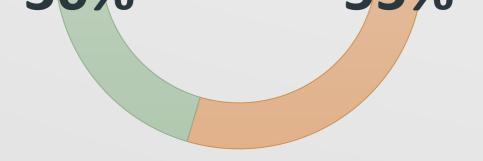
OBJECTIVES

The purpose is to evaluate prescription profile, efficacy and tolerability of nebulised voriconazole (n-V) administered at a dose of 40mg twice daily in LTR in a tertiary hospital.

METHODS

Observational, retrospective study of patients who underwent lung transplant (LT) between January 2008 and September 2017 that received n-V. Effectiveness was performed in terms of fungal infection resolution or culture negativization.





Fungal isolations

Fungal disease

Scedosporium Apisopermum Paecilomyces Lilacinus Aspergillus Fumigatus 2 5 **Aspergillus Terreus Scedosporium Aurantiacum** 3 **Scedosporium Prolificans** 1 2 3 0 4

Fungal pulmonary infection

Airway colonization

invasive fungal infections (IFI)

S. Apiospermum mycetoma

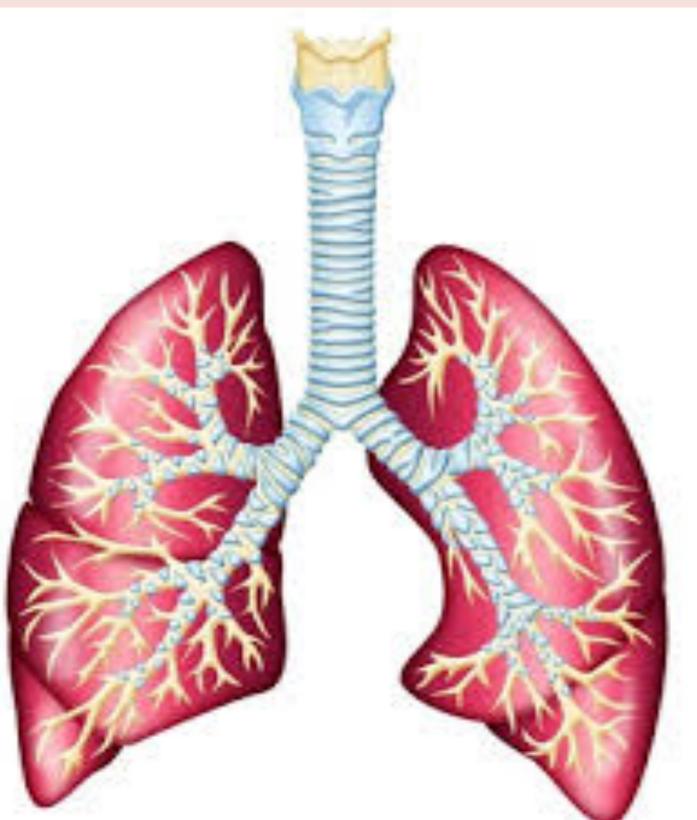
1 exitus related to S. Apiospermum and S. Prolificans IFI 9 months of n-V therapy duration)

Culture negativization took place in 82% of cases

Average treatment duration: 9,5 months (SD: 6,0)

No adverse effects were reported.

CONCLUSIONS



> n-V seems to be an effective alternative to prevent and treat fungal infections when n-LAB antifungal spectrum is not adequate to airway isolations. That occurs in most Scedosporium spp., Paecilomyces spp. and some Aspergillus spp.

> Its tolerability is good although n-V is not commercially available and it is prepared from intravenous vials.

Further studies will be required to accurately assess the use of n-V in clinical practice.

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