Efficacy and Safety of Rezafungin, A Long-Acting Echinocandin

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KEY FINDINGS

- Rezafungin is demonstrated to be safe, well-tolerated and effective for treatment of candidemia, invasive candidiasis and mucosal candidiasis in the real-world.
- Outcomes were successful in all diagnostic areas, including mucosal candidiasis, which has not been studied in depth.
- The cohort was at high risk for Candida infections, comorbid and heavily treatment experienced.
- As a long-acting weekly echinocandin, rezafungin is favorable for outpatient treatment of patients with fungal infections.

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Introduction

- Rezafungin (RZF) is a novel, next generation, long-acting intravenous echinocandin that was approved by the FDA in March 2023 for adult patients with candidemia and invasive candidiasis with safety established for up to 4 weekly doses.
- The once weekly dosing regimen is advantageous in outpatient settings, eliminating the requirement for central venous catheters and daily medication administration.
- This real-world study evaluates the use of rezafungin in Infectious Disease outpatient infusion centers, both as community initiation therapy and continuation therapy following hospitalization.

Methods

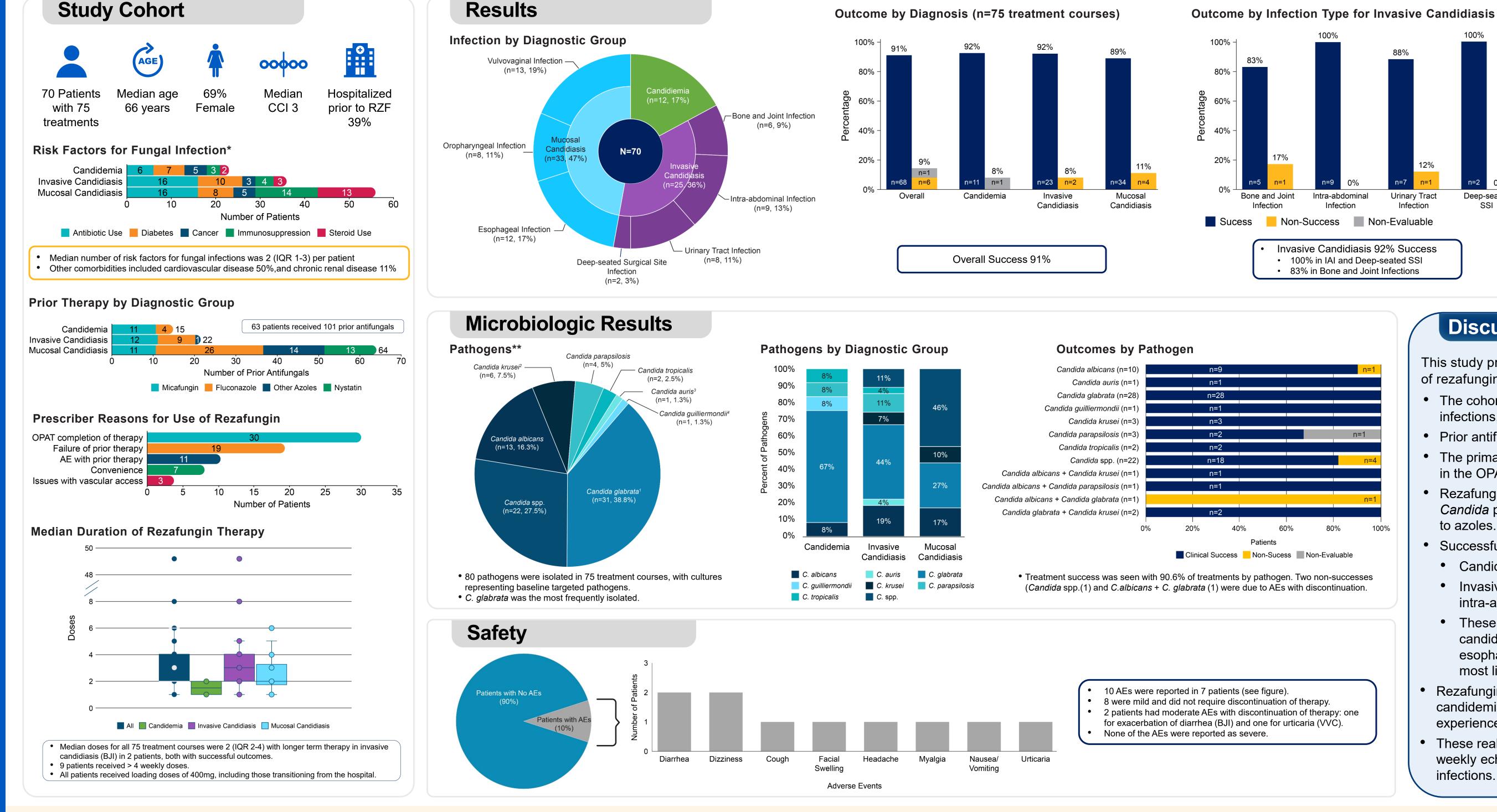
- A retrospective, cohort study was conducted in Infectious Disease physician infusion centers of patients who received ≥ 1 dose of rezafungin for treatment of any fungal infection, which included candidemia, invasive candidiasis and mucosal candidiasis.
- Patients with multiple episodes of fungal infections and treatments with rezafungin were
- · Data collected included demographics, medical history, risk factors for fungal infections, prior therapy, and reasons for use of rezafungin.
- Disease course and treatment details were evaluated including infection types, pathogens, drug dose and frequencies and adverse events.
- Clinical success was defined as a complete or partial resolution of symptoms of infection and no need for change of regimen for completion of therapy.

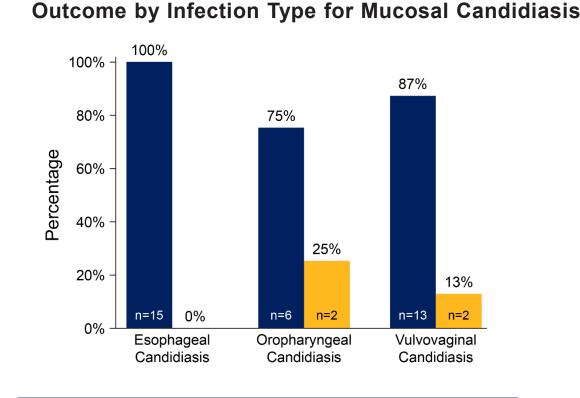
Outcomes were assessed for type of fungal infections and by pathogen as success,

- Non-success was defined as relapse or persistent infection at the end of therapy or required discontinuation of rezafungin.
- Patients were non-evaluable if clinical response was indeterminate.

non-success or non-evaluable.

- · Adverse events occurring during therapy were noted, including therapy discontinuations.
- Continuous data were reported as medians with interquartile ranges, and categorical data as counts and percentages.





Mucosal Candidiasis 89% Success 100% in Esophageal Candidiasis

- 3 pts had 5 new infections -all successful outcomes 2 VVC due to long-term broad-spectrum ABX for MDR UTI

Discussion

This study provides a very large real-world database on outpatient use of rezafungin.

- The cohort was co-morbid with a high number of risk factors for fungal infections, with antibiotic use the most predominant.
- Prior antifungals were utilized in 90% of patients.
- The primary reason for use of rezafungin was continuation of therapy in the OPAT setting following hospitalization.
- Rezafungin was successful in eradication of disease in numerous Candida pathogens, including organisms with high rates of resistance to azoles.
- Successful outcomes were high over all diagnoses.
- Candidemia success was 92%.
- Invasive candidiasis success was 92%, with 100% success in intra-abdominal and deep-seated SSI.
- These data report first use of rezafungin for treatment of mucosal candida infections, which was 100% successful in treatment of esophageal candidiasis. Oropharyngeal was the least effective, most likely due to persistence of high-risk factors in this population.
- Rezafungin was a safe, well tolerated, and effective treatment for candidemia, invasive and mucosal candidiasis in this treatment experienced comorbid population.
- These real-world data establish the successful use of a long-acting weekly echinocandin in the outpatient treatment of patients with fungal infections.

Abbreviations and Footnotes

Abbreviations: ABX, antibiotic; AE, adverse event; BJI, bone and joint infection; CCI, Charlson Comorbidity Index; EC, esophageal candidiasis; FDA, Food and Drug Administration; IAI, intraabdominal; IQR, interquartile range; ID, Infectious Disease; MDR, multi-drug resistant; OPAT, Outpatient parenteral antimicrobial therapy; SSI, surgical site infection; RA, rheumatoid arthritis; RZF, rezafungin, VVC, vulvovaginal candidiasis.

*Risk factors associated with CDC guidelines for fungal infections included: antibiotic use, diabetes, cancer, HIV/AIDS, immunosuppression/immunomodulatory drugs, including chemotherapy

**Current naming convention for pathogens: ¹Candida glabrata is Nakaseomyces glabrata, ²Candida krusei is Pichia kudriavzevii, ³Candida auris is Candidozyma auris and Candida guilliermondii is Meyerozyma guilliermondii.

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