

Candidozyma auris Versus non-Candidozyma auris Fungemia-Associated Mortality: Systematic Review and Meta-analysis

INPLASY202690002

doi: 10.37766/inplasy2026.9.0002

Received: 1 September 2026

Published: 1 September 2026

Chaari, A; Asheer, SA; Bousselmi, K; Maliq, M; Kauts, V.

Corresponding author:

Anis Chaari

anischaari2004@yahoo.fr

Author Affiliation:

King Hamad University Hospital.

ADMINISTRATIVE INFORMATION**Support** - No support.**Review Stage at time of this submission** - Preliminary searches.**Conflicts of interest** - None declared.**INPLASY registration number:** INPLASY202690002**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 1 September 2026 and was last updated on 1 September 2026.**INTRODUCTION**

Review question / Objective Does *Candidozyma auris* fungemia confer a higher 30-day mortality rate than fungemia caused by other *Candida* species?

Condition being studied *Candidozyma auris* is increasingly reported worldwide as a cause of difficult-to-control outbreaks. Since its first description in 2009, several reports have highlighted increased mortality rates associated with *Candidozyma auris* fungemia. However, whether this mortality rate exceeds that associated with fungemia caused by other *Candida* species remains uncertain. In addition, different clades of *Candidozyma auris* have been identified, with varying antifungal resistance profiles. The impact of geographical variation on mortality has not yet been investigated.

METHODS

Search strategy A systematic, comprehensive search will be conducted in PubMed, Cochrane, and Google Scholar. The following Medical Subject Headings (MeSH) terms were combined using the Boolean operators "AND" and "OR": *Candida auris*, fungemia, and candidemia. All articles published until 01.09.26 will be screened for eligibility and inclusion. There will be no language restrictions.

Participant or population Patients admitted to general wards or intensive care units who develop candidemia due to either *Candidozyma auris* or other *Candida* species.

Intervention Occurrence of *Candidozyma auris* fungemia.

Comparator Occurrence of fungemia caused by other *Candida* species.

Study designs to be included We will include prospective or retrospective observational studies.

Eligibility criteria Studies will be included if they report 30-day mortality rates for both *Candidozyma auris* and non-*Candidozyma auris* fungemia groups. Studies without a comparator group, studies including patients with mixed fungemia and/or invasive candidiasis without separate outcome reporting, and studies restricted to populations with SARS-CoV-2 infection will be excluded.

Information sources A systematic literature search will be performed in PubMed, Cochrane, and Google Scholar.

Main outcome(s) 30-day mortality rate.

Quality assessment / Risk of bias analysis Risk of bias will be assessed using guidance from the Cochrane Handbook for Systematic Reviews of Interventions.

Strategy of data synthesis Dichotomous outcomes will be summarized as odds ratios (ORs) with 95% confidence intervals (CIs). An I² value greater than 50% will be considered indicative of substantial heterogeneity.

Subgroup analysis Subgroup analyses will be conducted according to the geographical distribution of included studies: Asia/South America/Middle East, North America, and Europe.

Sensitivity analysis Studies with high risk of bias will be excluded from analysis.

Language restriction No language restriction.

Country(ies) involved Bahrain.

Keywords *Candidozyma auris*, fungemia, outcome.

Contributions of each author

Author 1 - Anis Chaari - Systematic search, identification and screening, data extraction, analysis, drafting the initial version, revising the final draft.

Email: anischaari2004@yahoo.fr

Author 2 - Shaikha Ali Asheer - Systematic search, revising the final draft.

Email: shaikha.asheer@khuh.org.bh

Author 3 - Kamal Bousselmi - Systematic search, drafting the initial version, revising the final draft.

Email: kamel.bousselmi@khuh.org.bh

Author 4 - Muqtadir Maliq - Systematic search, drafting the initial version, revising the final draft.

Email: muqtadir.maliq@khuh.org.bh

Author 5 - Vipin Kauts - Systematic search, identification and screening, data extraction, drafting the initial version, revising the final draft.

Email: vipin.kauts@khuh.org.bh