



Algorithm to identify *Candida auris* based on biochemical laboratory method and initial species identification

PURPOSE

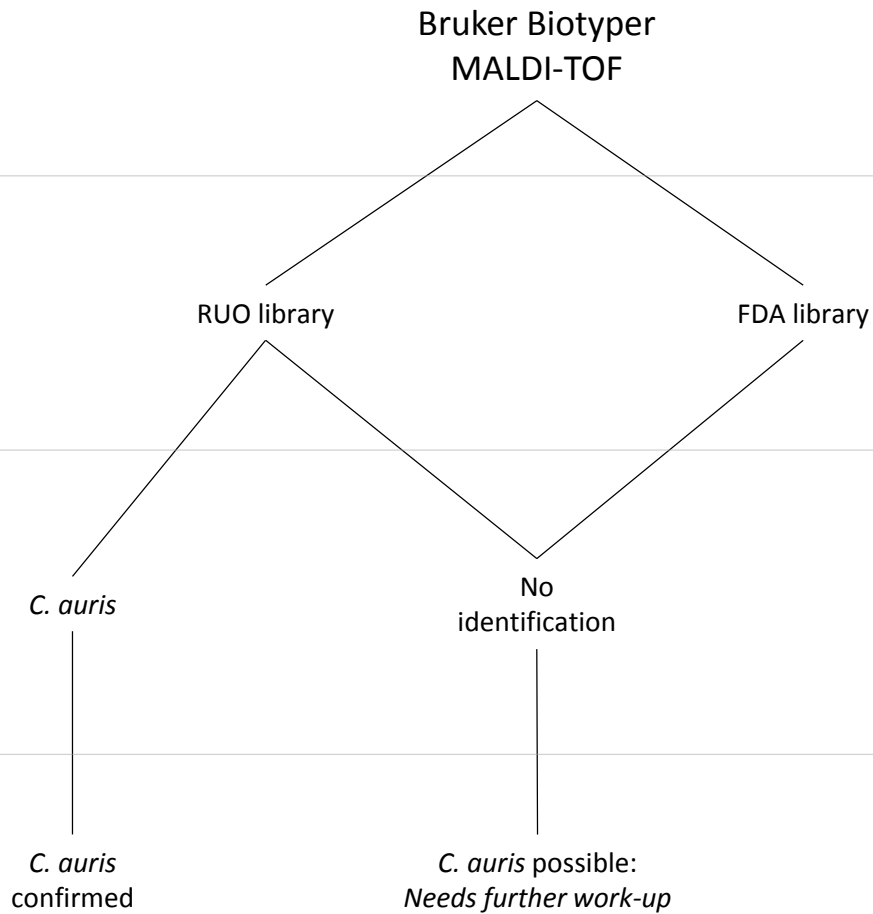
Candida auris is a multidrug-resistant yeast that has been found in multiple countries, including the United States. *C. auris* can cause invasive infections, be passed from person to person, and persist in the environment. Its severity, communicability, and drug resistance makes correctly identifying *C. auris* crucial to treating patients and preventing infections. However, this is challenging because traditional biochemical methods frequently misidentify *C. auris*. This algorithm details the steps needed to determine the correct *Candida* spp. based on the tests and equipment available in your lab.

TABLE OF CONTENTS – ALGORITHMS BY METHOD

1. Bruker Biotyper MALDI-TOF
2. bioMérieux VITEK MS MALDI-TOF
3. VITEK 2 YST

4. API 20C
5. BD Phoenix
6. MicroScan

Please note that these algorithms are based on our current knowledge about misidentification of C.auris and may change as we learn new information.

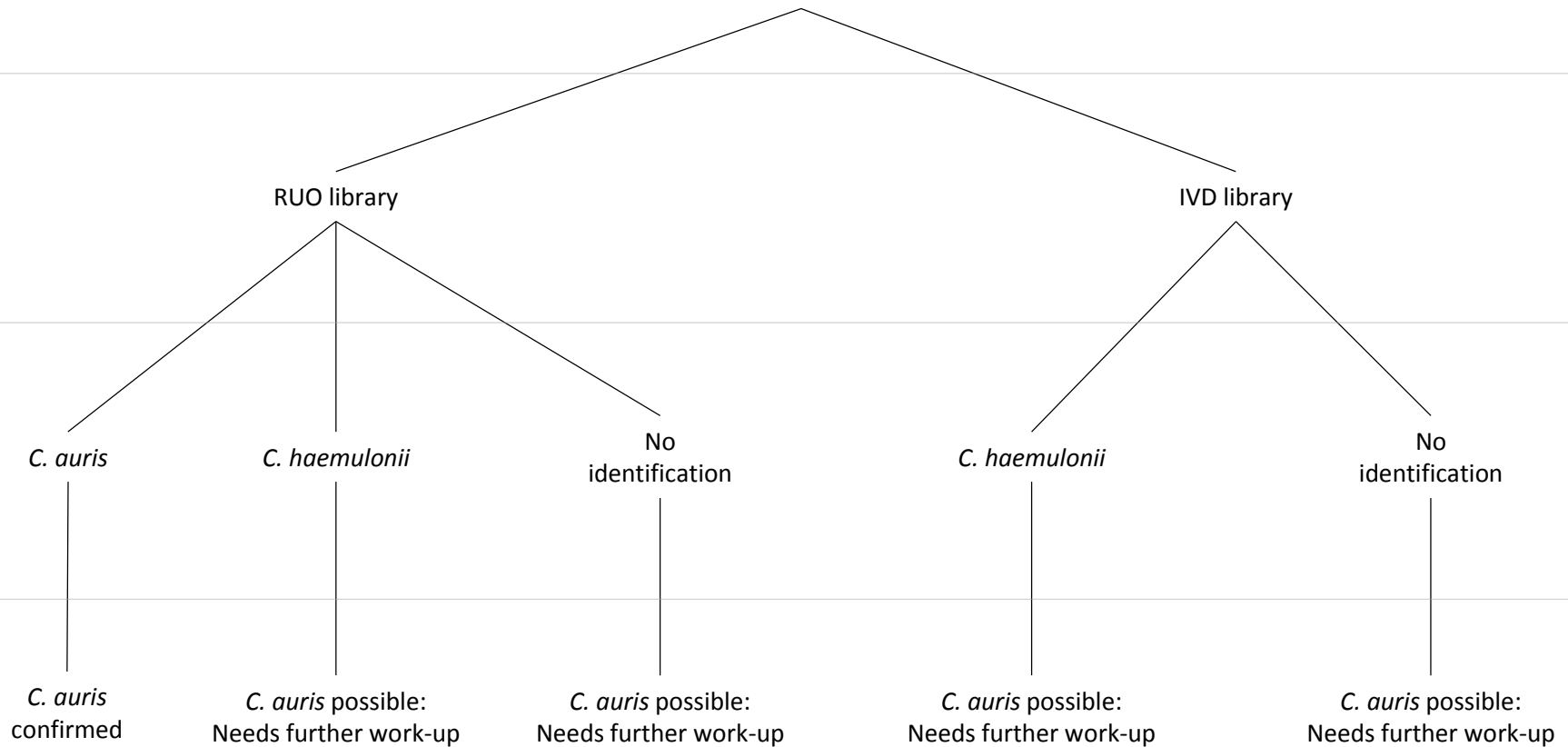
***C. auris* confirmed:**

Place patient in transmission-based precautions, report to CDC (candidaauris@cdc.gov), and notify state and local health departments.

***C. auris* possible:**

Further work-up needed to determine if actually *C. auris*. Send isolates to a reference lab, a state public health lab, a regional lab, or CDC for further identification. Place patient in transmission-based precautions and notify state and local health departments and CDC (candidaauris@cdc.gov).

bioMérieux VITEK MS
MALDI-TOF



C. auris confirmed:

Place patient in transmission-based precautions, report to CDC (candidaauris@cdc.gov), and notify state and local health departments.

C. auris possible:

Further work-up needed to determine if actually *C. auris*. Send isolates to a reference lab, a state public health lab, a regional lab, or CDC for further identification. Place patient in transmission-based precautions and notify state and local health departments and CDC (candidaauris@cdc.gov).

VITEK 2 YST

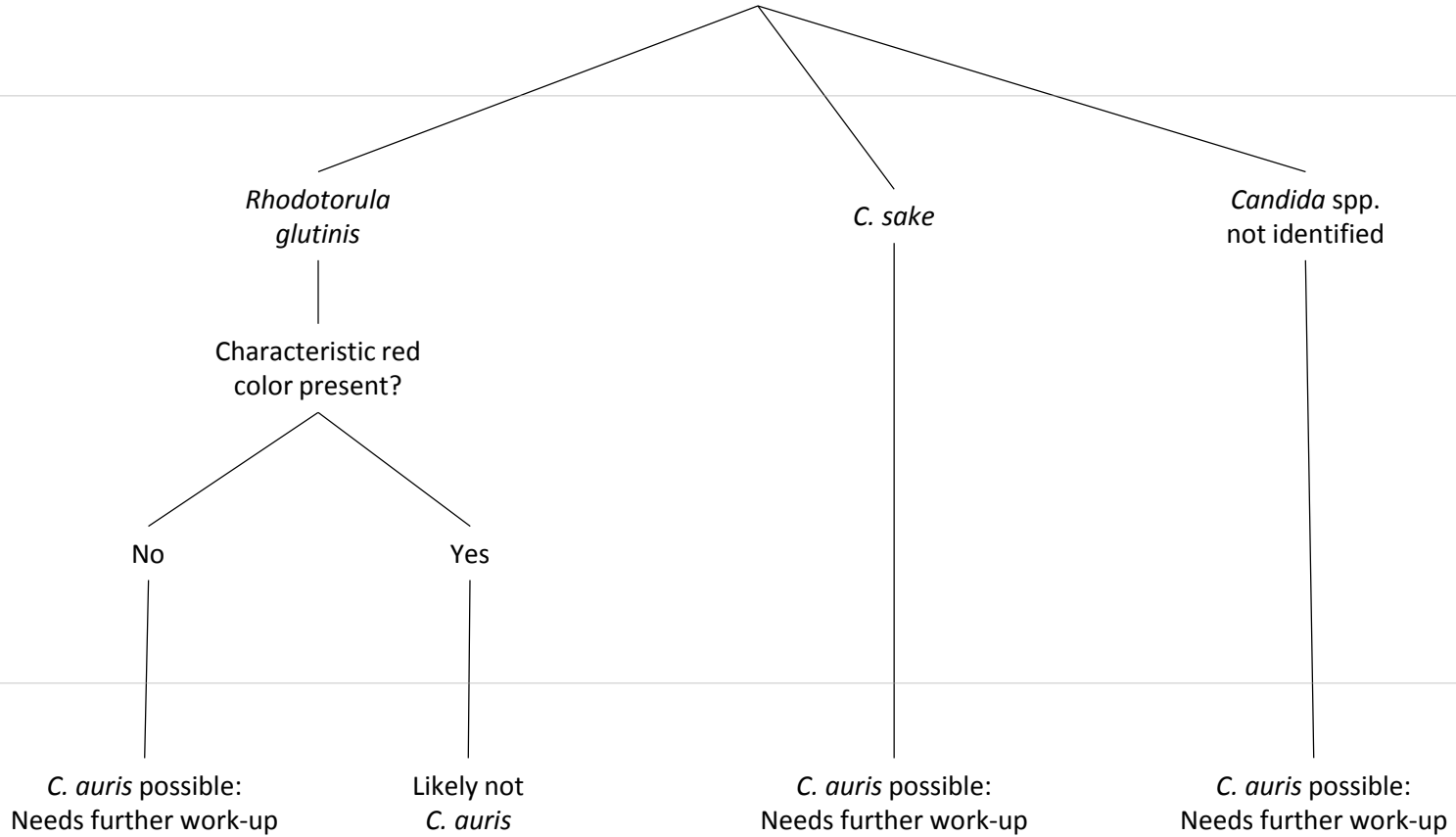
*C. auris**C. haemulonii**C. duobushaemulonii**Candida* spp.
not identified*C. auris*
confirmed*C. auris* possible:
Needs further work-up*C. auris* possible:
Needs further work-up*C. auris* possible:
Needs further work-up***C. auris* confirmed:**

Place patient in transmission-based precautions, report to CDC (candidaauris@cdc.gov), and notify state and local health departments.

***C. auris* possible:**

Further work-up needed to determine if actually *C. auris*. Send isolates to a reference lab, a state public health lab, a regional lab, or CDC for further identification. Place patient in transmission-based precautions and notify state and local health departments and CDC (candidaauris@cdc.gov).

API 20C



C. auris suspected:

Place patient in transmission-based precautions and notify state and local health departments and CDC (candidaauris@cdc.gov). Send any isolates suspected to be *C. auris* to a reference lab, a state public health lab, a regional lab, or CDC for further identification.

Likely not C. auris:

No further *C. auris*-related action required.

Identification Method

Initial finding

Determination

Next steps

BD Phoenix

C. catenulata

C. haemulonii

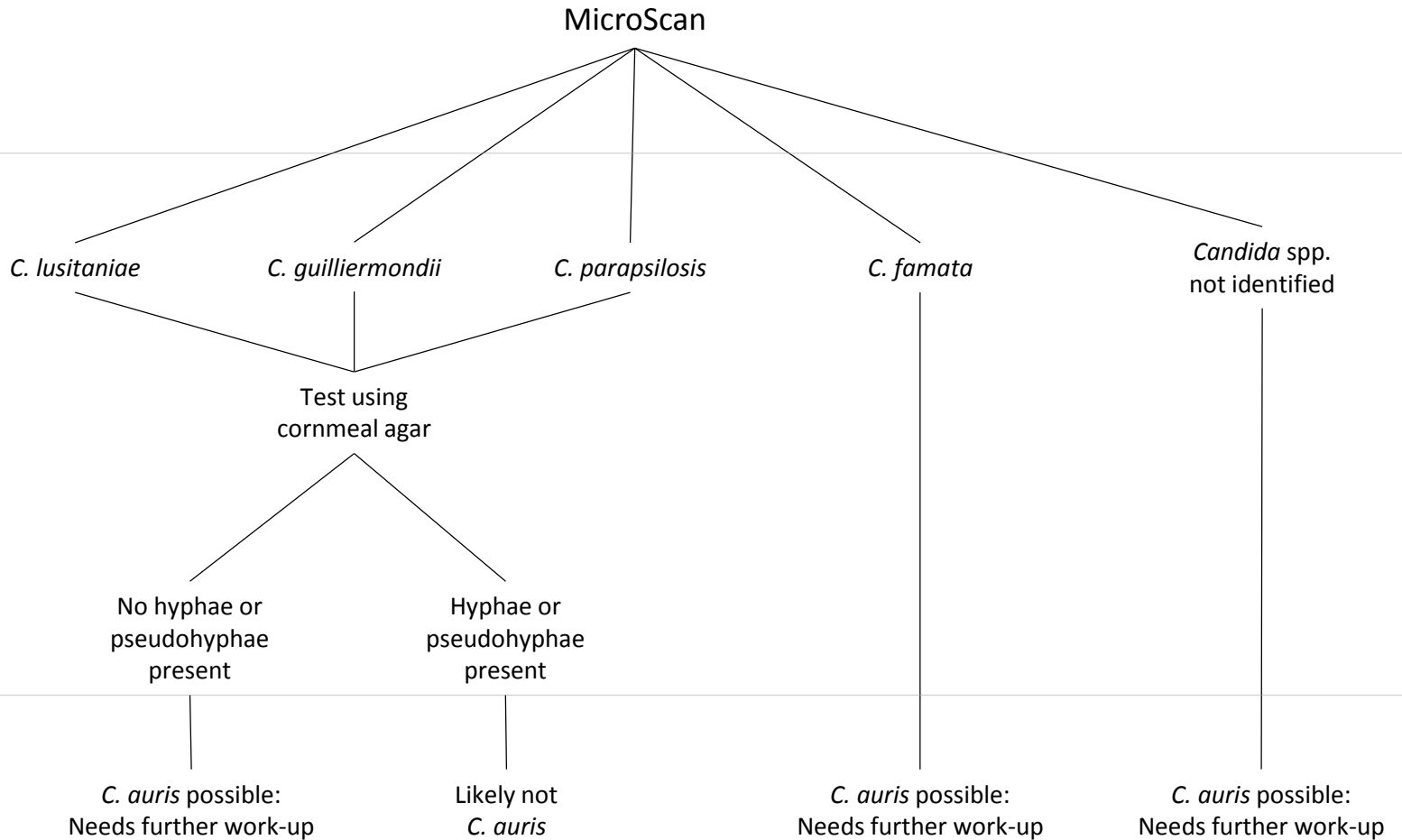
Candida spp.
not identified

C. auris possible:
Needs further work-up

C. auris possible:
Needs further work-up

C. auris possible:
Needs further work-up

***C. auris* possible:**
Further work-up needed to determine if actually *C. auris*. Send isolates to a reference lab, a state public health lab, a regional lab, or CDC for further identification. Place patient in transmission-based precautions and notify state and local health departments and CDC (candidaauris@cdc.gov).



C. auris possible:

Further work-up needed to determine if actually *C. auris*. Send isolates to a reference lab, a state public health lab, a regional lab, or CDC for further identification. Place patient in transmission-based precautions and notify state and local health departments and CDC (candidaauris@cdc.gov).

Likely not C. auris:

No further *C. auris*-related action required.