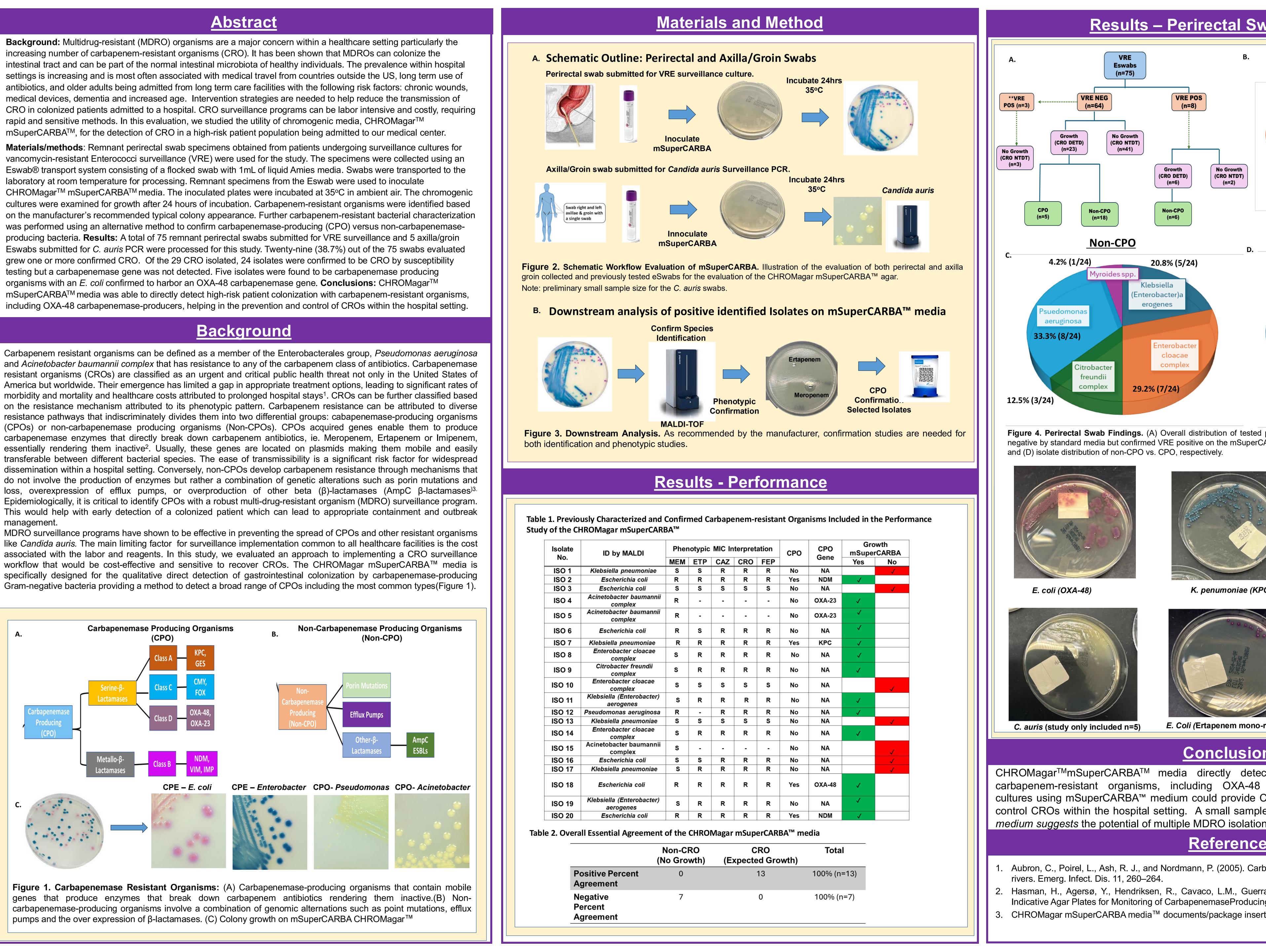
# **Evaluation of Chromogenic Medium for the Detection and** Cedars **Isolation of Carbapenem-Resistant Organisms from Perirectal Swabs**



D. Contreras<sup>1</sup> and M. Morgan<sup>1</sup> <sup>1</sup>Department of Pathology and Laboratory Medicine, Cedars Sinai Medical Center, Los Angeles, CA 90048

Eswabs

(n=75)

No Growth

(CRO NTDT)

(n=41)

# **Results – Perirectal Swab Evaluation**

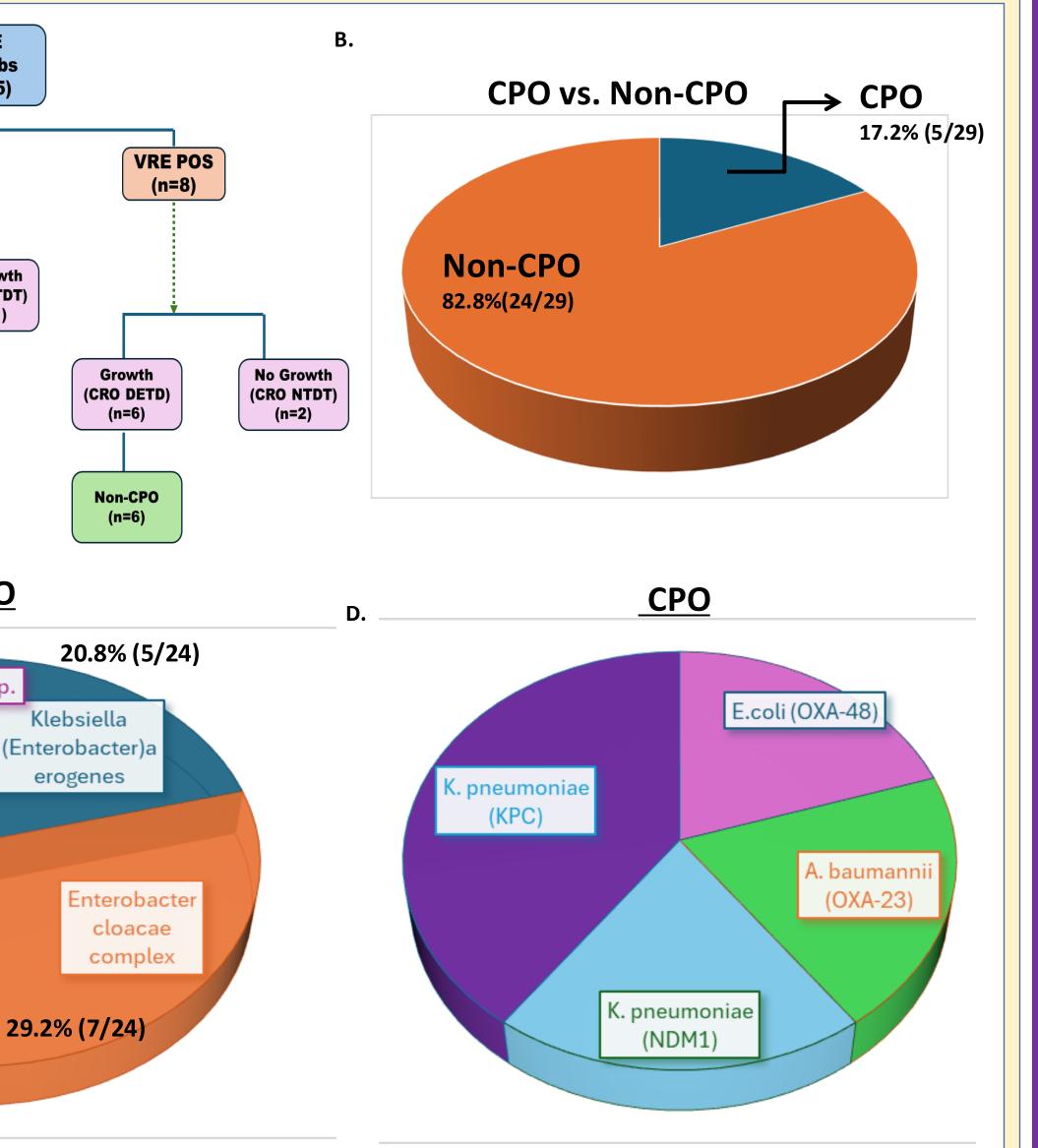
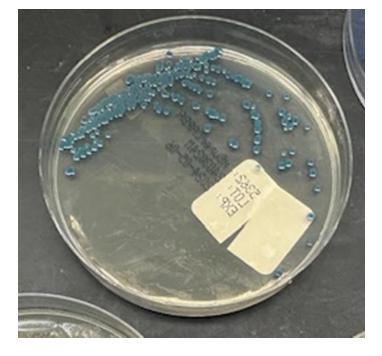
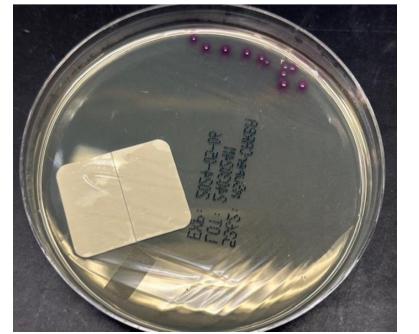
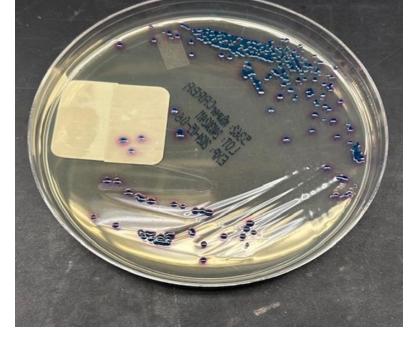


Figure 4. Perirectal Swab Findings. (A) Overall distribution of tested perirectal swabs. Note: there were two VRE tested negative by standard media but confirmed VRE positive on the mSuperCARBA<sup>™</sup> media. (B) CPO vs non-CPO distribution (c)



K. penumoniae (KPC)





VRE plus K. (Enterobacter) aerogenes

Figure 4. Illustrations of different colony appearance on the CHROMagar mSuperCARBA <sup>™</sup> media, All confirm to be carbapenem resistant organisms.

### E. Coli (Ertapenem mono-resistant)

# Conclusions

CHROMagar<sup>TM</sup>mSuperCARBA<sup>TM</sup> media directly detected high-risk patient colonization with carbapenem-resistant organisms, including OXA-48 carbapenemase-producers. Surveillance cultures using mSuperCARBA<sup>™</sup> medium could provide CRO detection in a program to prevent and control CROs within the hospital setting. A small sample size of 5 C. auris showing growth on this *medium suggests* the potential of multiple MDRO isolation from the same patient sample.

## References

Aubron, C., Poirel, L., Ash, R. J., and Nordmann, P. (2005). Carbapenemase-producing Enterobacteriaceae, U.S.

Hasman, H., Agersø, Y., Hendriksen, R., Cavaco, L.M., Guerra-Roman, B., 2015. Validation of Selective and Indicative Agar Plates for Monitoring of CarbapenemaseProducing E. coli.