

# *Leclercia adecarboxylata*, An Emerging Pathogen: A Narrative Review

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## Abstract

*Leclercia adecarboxylata* is a gram negative, motile, facultative-anaerobic, oxidase-negative, mesophilic bacillus belonging to the *Enterobacteriaceae* family. *L. adecarboxylata* is often misclassified as "*Escherichia adecarboxylata*", since *Leclercia* spp. shares several structural and microbiological properties with the genus *Escherichia*. Due to those similarities, *L. adecarboxylata* infections might be more common than what believed so far, since past since pastni6





Citation:

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A total of 160 papers were identified through our search, but, eventually, only 64 were included as describing a clinical case of *L. adecarboxylata* infection. While 99 patients were affected by a generally multi-sensitive *L. adecarboxylata* infection, the number of multi-drug resistant strain is rising over time [41-62]. Among the documented cases of pediatric infection, even a colonization of a carbapenem-resistant *L. adecarboxylata* isolated from a healthy newborn has been reported in 2023 [29,63-70]. All things considered; it is hard and incorrect to define *L. adecarboxylata* as an "opportunistic pathogen" as often happen in literature [71-80], even if most of the infections occur in immunocompromised hosts.

Carbapenems are always considered when treating a multidrug-

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Isolation of *Leclercia adecarboxylata* from a wound