

**P2163 Antifungal susceptibility of non-common *Candida* species: *C. guilliermondii* crowned as the least susceptible one**

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**Background:** *C. albicans*, *C. parapsilosis*, *C. glabrata*, and *C. tropicalis* are responsible for more than 90% of invasive candidiasis episodes. Unfortunately, data on antifungal susceptibility of other infrequent species of *Candida* is very scarce.

**Materials/methods:** Thirty clinical isolates of each of the following rare *Candida* species were tested (n=120): *C. krusei*, *C. dubliniensis*, *C. lusitaniae*, and *C. guilliermondii*. Isolates sourced from bloodstream and other anatomical sites from patients admitted to Hospital Gregorio Marañón (Spain) from 2007 to 2018. *C. albicans* isolates (n=37) from blood cultures were tested as controls. *In vitro* susceptibility to amphotericin B, fluconazole, voriconazole, posaconazole, micafungin, and anidulafungin was studied by means of EUCAST EDef 7.3.1.

**Results:** *C. dubliniensis* was most susceptible species showing a susceptibility profile similar to *C. albicans* ( $P < 0.05$ ) (Figure). In contrast, *C. krusei* and *C. guilliermondii* isolates were the least susceptible ones. *C. lusitaniae* showed MICs close to those against *C. albicans*. No resistance to amphotericin B was detected.

**Conclusions:** *C. guilliermondii* isolates showed the lowest antifungal susceptibility and the highest rate of resistance to antifungal agents. In contrast, *C. dubliniensis* and *C. lusitaniae* isolates showed high susceptibility to antifungal drugs, comparable to *C. albicans*.

Species	Geometric mean Minimum Inhibitory Concentration (mg/L)					
	Amphotericin B	Fluconazole	Voriconazole	Posaconazole	Micafungin	Anidulafungin
<i>C. krusei</i>	0.47	32.7	0.29	0.11	0.09	0.04
<i>C. dubliniensis</i>	0.06	0.19	0.02	0.02	0.02	0.02
<i>C. lusitaniae</i>	0.09	0.30	0.02	0.02	0.05	0.04
<i>C. guilliermondii</i>	0.11	3.65	0.10	0.11	0.31	0.63
<i>C. albicans</i>	0.18	0.19	0.02	0.02	0.02	0.02

