In Vitro Activity of a Novel Broad-spectrum Antifungal Agent, E1210, and Comparators Tested against Candida spp.

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Abstract

Background: E1210 is a new-in-class broad-spectrum antifungal that suppresses fungal growth in vitro in human genetically modified (hGm) model systems. This study evaluated the activity of E1210 and comparator agents against Candida spp., including azole- and echinocandin-resistant strains.

Methods: 98 clinical isolates of Candida were tested by CLSI broth microdilution methods. Testing included 21 strains of C. albicans, 24 of C. glabrata, 24 of C. parapsilosis, and 29 of C. tropicalis. MIC results were performed using CLSI CL02-A8 methods. E1210 was also tested against the CLSI-recommended strains C. albicans ATCC 90028, C. glabrata ATCC 200105, and C. parapsilosis ATCC 22053. Caspofungin and fluconazole were used as controls. The results were interpreted according to CLSI M27-S6 reference methods.

Results: E1210 was highly active against all species tested and was more potent than all comparators against the azole- and echinocandin-resistant strains. E1210 was also the most potent agent against C. parapsilosis. E1210 was highly active against azole- and echinocandin-R strains (Table 1).

Conclusions: E1210 was highly active against all species tested and was more potent than all comparators against the azole- and echinocandin-resistant strains. E1210 was also the most potent agent against C. parapsilosis. E1210 was highly active against azole- and echinocandin-R strains (Table 1).

Acknowledgements

This study was sponsored by an educational/research grant from Eisai Co., Ltd.

References


Table 1. In vitro activity of a novel broad-spectrum antifungal agent, E1210, and comparator agents tested against Candida spp. as determined by CLSI broth microdilution methods.

Table 2. In vitro activity of E1210 and comparator agents tested against fluconazole-resistant Candida spp. as determined by CLSI broth microdilution methods.

Table 3. In vitro activity of E1210 and comparator agents tested against caspofungin-resistant Candida spp. as determined by CLSI broth microdilution methods.