

**Supplementary file:**

Distribution and antifungal susceptibility pattern of *Candida* species from mainland China: A systematic analysis

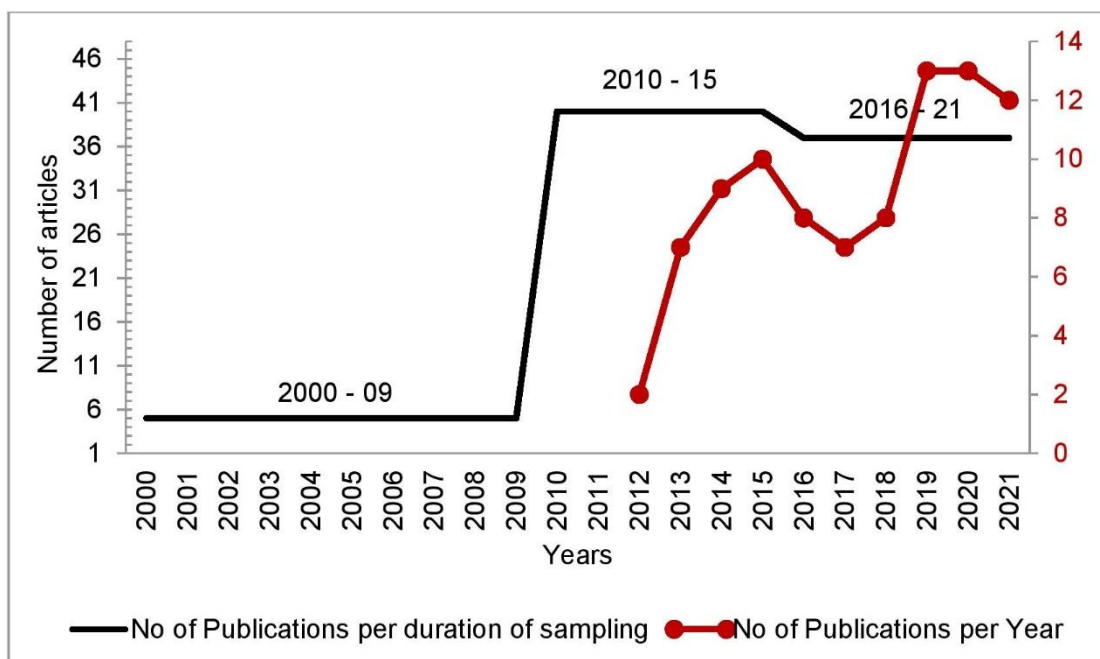
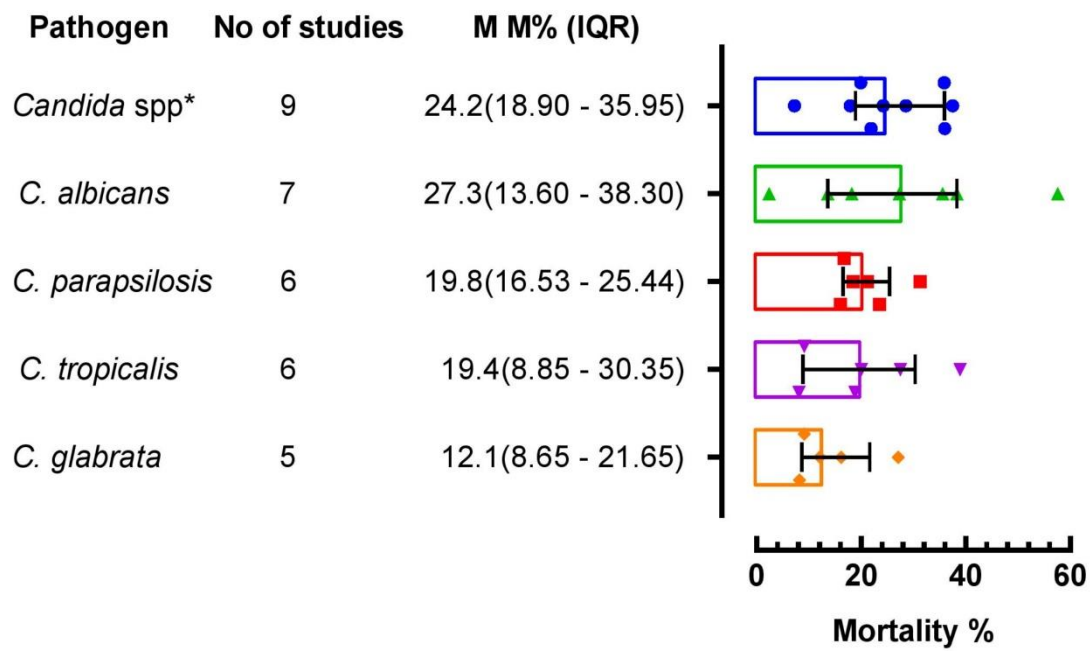


Figure S1 The number of articles based on sampling duration and publication per year





**Figure S3** The median mortality rate with interquartile range of *Candida* pathogens, \*= not specified the *Candida* pathogen type.

**Table S1** P-values of the susceptibilities rate of all antifungal drugs against *Candida* species included in current study.

<i>C. albicans</i>			<i>C. glabrata</i>		
Drugs	P value	Significant	Drugs	P value	Significant
Amphotericin B	<0.0001	Yes	Amphotericin B	<0.0001	Yes
Anidulafungin	<0.0001	Yes	Anidulafungin	<0.0001	Yes
Caspofungin	<0.0001	Yes	Caspofungin	<0.0001	Yes
Clotrimazole	<0.0001	Yes	Clotrimazole	0.1158	No
Fluconazole	<0.0001	Yes	Fluconazole	<0.0001	Yes
5-Flucytosine	<0.0001	Yes	5-Flucytosine	<0.0001	Yes
Itraconazole	<0.0001	Yes	Itraconazole	<0.0001	Yes
Ketoconazole	0.0066	Yes	Ketoconazole	0.0131	Yes
Micafungin	<0.0001	Yes	Micafungin	<0.0001	Yes
Miconazole	0.0016	Yes	Miconazole	0.042	Yes
Nystatin	<0.0001	Yes	Nystatin	<0.0001	Yes
Posaconazole	<0.0001	Yes	Posaconazole	<0.0001	Yes
Voriconazole	<0.0001	Yes	Voriconazole	<0.0001	Yes
Terbinafine	0.4164	No			

<i>C. tropicalis</i>			<i>C. parapsilosis</i>		
Drugs	P value	Significant	Drugs	P value	Significant
Amphotericin B	<0.0001	Yes	Amphotericin B	<0.0001	Yes
Anidulafungin	<0.0001	Yes	Anidulafungin	<0.0001	Yes
Caspofungin	<0.0001	Yes	Caspofungin	<0.0001	Yes
Clotrimazole	0.3308	No	Clotrimazole	0.0003	Yes
Fluconazole	<0.0001	Yes	Fluconazole	<0.0001	Yes
5-Flucytosine	<0.0001	Yes	5-Flucytosine	<0.0001	Yes
Itraconazole	<0.0001	Yes	Itraconazole	<0.0001	Yes
Ketoconazole	0.0574	No	Micafungin	<0.0001	Yes
Micafungin	<0.0001	Yes	Posaconazole	<0.0001	Yes
Miconazole	0.1065	No	Voriconazole	<0.0001	Yes
Nystatin	<0.0001	Yes			
Posaconazole	0.0003	Yes			
Voriconazole	<0.0001	Yes			

<i>C. krusei</i>			<i>C. guilliermondii</i>		
Drugs	P value	Significant	Drugs	P value	Significant
Amphotericin B	<0.0001	Yes	Anidulafungin	0.0134	Yes
Anidulafungin	<0.0001	Yes	Caspofungin	0.0117	Yes
Caspofungin	<0.0001	Yes	Fluconazole	0.0003	Yes
5-Flucytosine	<0.0001	Yes	5-Flucytosine	0.0155	Yes
Itraconazole	<0.0001	Yes	Itraconazole	0.0013	Yes
Micafungin	<0.0001	Yes	Micafungin	0.0013	Yes
Posaconazole	<0.0001	Yes	Posaconazole	0.0267	Yes
Voriconazole	<0.0001	Yes	Voriconazole	<0.0001	Yes

<i>C. auris</i>			<i>C. pilliculosa</i>		
Drugs	P value	Significant	Drugs	P value	Significant
Itraconazole	0.0214	Yes	Fluconazole	0.0344	Yes

Voriconazole	0.4114	No	Voriconazole	0.022	Yes
--------------	--------	----	--------------	-------	-----

*C. lusitanae*

Drugs	P value	Significant
Amphotericin B	0.0177	Yes
Fluconazole	0.0007	Yes
Itraconazole	0.0363	Yes
Micafungin	0.0265	Yes

**Table S2** Median susceptibility plus 95% confidence interval (MS (95%CI) of antifungal drugs against *Candida* species obtained by different susceptibility testing methods.

Drug	<i>C. albicans</i>	<i>C. glabrata</i>	<i>C. tropicalis</i>	<i>C. parapsilosis</i>	<i>C. krusei</i>
AST method	MS (95% CI)	MS (95% CI)	MS (95% CI)	MS (95% CI)	MS (95% CI)
	Tested isolates	Tested isolates	Tested isolates	Tested isolates	Tested isolates
<b>Amphotericin B</b>					
ATB Fungus 3 kit	100 (99.3 - 100) <i>n</i> = 1945	100 (100 - 100) <i>n</i> = 575	100 (100 - 100) <i>n</i> = 505	100 (96.50 - 100) <i>n</i> = 545	100 (100 - 100) <i>n</i> = 23
BMD	100 (98.9 - 100) 5929	100 (99.8 - 100) <i>n</i> = 1426	100 (99.9 - 100) <i>n</i> = 1324	100 (99.90 - 100) <i>n</i> = 1472	100 (96.6 - 100) <i>n</i> = 178
Agar Diffusion	97.2 (95.5-98.8) <i>n</i> = 236	90.9 (84.6 - 97.1) <i>n</i> = 81	92.9 (92.30 - 99.8) <i>n</i> = 3769	-	-
Sensititre YeastOne	100 (97.5 - 100) <i>n</i> = 446	100 (97.4 - 100) <i>n</i> = 774	100 (98.2 - 100) <i>n</i> = 4792	100 (95.95 - 100) <i>n</i> = 1775	100 (100 - 100) <i>n</i> = 52
<b>5-Flucytosine</b>					
ATB Fungus 3 kit	97.6 (95.5 - 98.5) <i>n</i> = 1564	100 (94.6 - 100) <i>n</i> = 433	98.5 (94.6 - 100) <i>n</i> = 306	100 (98.80 - 100) <i>n</i> = 317	86.37 (72.73 -100) <i>n</i> = 23
BMD	99.2 (97.1-100) 4394	99.50 (98.9 - 100) 1130	100 (98.8 - 100) <i>n</i> = 1276	100 (93.10 - 100) <i>n</i> = 1460	97.40 (80 - 100) <i>n</i> = 146
Agar Diffusion	86.65 (83.3 - 90) <i>n</i> = 236	60.9 (30.7 - 91.2) <i>n</i> = 81	89.93 (89.7 - 99) <i>n</i> = 3769	-	-
Sensititre YeastOne	98.1 (82.5-98.6) <i>n</i> = 446	98.10 (78.6 - 100) <i>n</i> = 774	99 (98.2 - 100) <i>n</i> = 4285	93.3 (84.62 - 9.2) <i>n</i> = 891	100 (100 - 100) <i>n</i> = 52
<b>Fluconazole</b>					
ATB Fungus 3 kit	93 (87.5 - 96.1) <i>n</i> = 2563	79.85 (20 - 88.80) <i>n</i> = 595	70.3 (60 - 88.8) <i>n</i> = 576	91.45 (87.8 - 100) 562	-
BMD	89.6 (63.3- 95.9) <i>n</i> = 9008	90.60 (0 - 100) <i>n</i> = 1132	78.9 (63.5 - 89.3) <i>n</i> = 2468	93.95 (80 - 100) <i>n</i> = 1514	-
Agar Diffusion	83.9 (72.6- 99.5) <i>n</i> = 9330	32.90 (4.3 - 81.3) <i>n</i> = 1789	81.7 (31.6 - 94.3) <i>n</i> = 5491	84.9 (57.7 - 98.6) <i>n</i> = 2035	-
Sensititre YeastOne	95 (55 - 99.30) <i>n</i> = 584	79.70 (0 - 92.86) <i>n</i> = 774	77.35 (45.5 - 88.4) <i>n</i> = 4840	94.5 (53.8 - 97.7) <i>n</i> = 1856	-
<b>Itraconazole</b>					
ATB Fungus 3 kit	88.1 (82.8- 96.3) <i>n</i> = 2326	72.6 (30.8 - 93.2) <i>n</i> = 556	63.9 (42.6 - 90.4) <i>n</i> = 517	97.2 (87.2 - 100) <i>n</i> = 562	60.6 (54.54 - 66.6) <i>n</i> = 23
BMD	88.3 (48.9 - 95.8) <i>n</i> = 5123	96.6 (24.20 - 100) <i>n</i> = 1159	81.90 (58.6 - 97) <i>n</i> = 1846	99.4 (50 -100) <i>n</i> = 1472	96.60 (10 - 100) <i>n</i> = 178
Agar Diffusion	90.6 (46.5- 93.6) <i>n</i> = 4792	35.2 (8.1 - 90.6) <i>n</i> = 804	86.5 (65.1 - 90.2) <i>n</i> = 3761	97.5 (96.2 - 100) <i>n</i> = 124	8.35 (0 - 16.70) <i>n</i> = 36
Sensititre YeastOne	94.2 (6 - 99.3) <i>n</i> = 446	92.3 (78.6 - 93.2) <i>n</i> = 774	89.1 (78.1 - 100) <i>n</i> = 4792	100 (76.9 - 100) <i>n</i> = 1775	100 (100 - 100) <i>n</i> = 52
<b>Voriconazole</b>					
ATB Fungus 3 kit	95.3 (88.5 - 97.9) <i>n</i> = 2438	94.60 (89.7 - 100) <i>n</i> = 506	73 (61.10 - 9.40) <i>n</i> = 549	97.45 (95.7 - 100) <i>n</i> = 631	78.41 (75 - 81.82) <i>n</i> = 23
BMD	96.3 (51.2- 98.3) <i>n</i> = 5181	86.2 (58.4 - 95.3) <i>n</i> = 1159	83.96 (49.2 - 92.9) 2407	100 (92 - 100) <i>n</i> = 1514	93.40 (80 - 100) <i>n</i> = 178
Agar Diffusion	99.3 (99.2 - 100) <i>n</i> = 4515	85.2 (73.3 - 92.3) <i>n</i> = 991	91.30 (79.7 -94.30) <i>n</i> = 5393	100 (97.50 - 100) 1933	-
Sensititre YeastOne	95.9 (9 - 96.9) <i>n</i> = 584	71.8 (36.50 - 100) <i>n</i> = 774	79.30 (42.50 - 100) <i>n</i> = 4818	95.90 (99.2 - 100) <i>n</i> = 1856	84.85 (69.70 - 100) <i>n</i> = 52