Table 6. Resistance of *Candida albicans* and *non -Candida albicans* strains to one or more antifungal drug

|  |  |  |
| --- | --- | --- |
|  |  YEAR  | P value\* |
| ***Candida albicans*** | **1999****N=282**  | **2004****N=172**  | **2015****N= 176** | **Total** **N=630** | <0.001 |
| 101(35.8%) | 116(67.4%) | 162(92%) | 379(60.2%) |
| ***non-Candida albicans*** | **1999****N=170**  | **2004****N=196** | **2015****N= 278** | **Total** **N=644** | <0.001 |
| 90(52.9%) | 126(64.3%) | 245(88.1%) | 461(71.8%) |

\*Kruskal-Wallis test

Table 7. Drug susceptibility of *Candida albicans* strains to imidazole agents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Miconazole | Ketoconazole | Itraconazole | Fluconazole | Mean number of strains  |
| ***Susceptibility/******Year*** |  1999 N=282  | 112 (39.7%) | **114** **(40.4%)** | 68 (24.1%) | 96 (34%) | 97.5 ± 18.4 |
| 2004 N=172  | 12(16.7%) | 8(4.6%) | 4(2.3%) | **29****(16.9%)** | 13.25 ± 9.5 |
| 2015 N= 176 | **68****(38.6%)**  | 43 (24.4%) | 17 (11.8%) | 20(11.4%) | 37 ± 20.5 |
| TotalN= 630 | **192****(30.5%)** | 165(26.2%) | 89(14.1%) | 145(23%) | 147.75 ± 37.8 |
| P value\* | 0.957 | 0.016 | <0.01 | <0.001 | <0.001 |
|  |
| ***Intermediate/******Year*** |  1999 N=282  | 109 (38.7%) | **110** **(39%)** | 91 (32.3%) | 36 (12.8%) | 86.5 ± 30.1 |
| 2004 N=172  | **94****(54.6%)** | 78(45.3%) | 77(44.8%) | 71(41.3%) | 80 ± 8.5 |
| 2015 N= 176 | 24 (13.6%) | **39** **(22.2%)** | 15 (8.5%) | 5(2.8%) | 22.7 ± 12.5 |
| TotalN= 630 | **227****(36%)** | **227****(36%)** | 183(29%) | 112(17.8%) | 187.3 ± 47.01 |
| P value\* | <0.001 | <0.001 | <0.001 | <0.01 | <0.001 |
|  |
| ***Resistance******Year***  |  1999 N=282  | 61 (21.6%) | 58 (20.6%) | 123 (43.6%) | **150** **(53.2%)** | 98 ± 39.7 |
| 2004 N=172  | 66(38.4%) | 86(50%) | **91****(52.9%)** | 72(41.9%) | 78.8 ± 10.1 |
| 2015 N= 176 | 84 (47.7%) | 94 (53.4%) | 144(81.8%) | **151** **(67.1%)** | 118.3 ± 29.6 |
| TotalN= 630 | 211(33.5%) | 238(37.8%) | 358(56.8%) | **373****(59.2%)** | 295 ± 71.3 |
| P value\* | <0.001 | <0.001 | <0.001 | <0.01 | <0.001 |

\*Kruskal-Wallis test

Table 8. Drug susceptibility of *non-Candida albicans* strains to imidazole agents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Miconazole | Ketoconazole | Itraconazole | Fluconazole | Mean number of strains |
| ***Susceptibility/******Year*** |  1999 N=170  | 44(25.9%) | 22(12.9%) | 52(30.6%) | **56****(32.9%)** | 43.5 ± 13.1 |
| 2004 N=196  | 46(23.5%) | 52(25.6%) | 50(25.5%) | **64****(32.7%)** | 53 ± 6.7 |
| 2015 N= 278 | **116****(56.1%)** | 104(37.4%) | 109(39.2%) | 72(25.9%) | 100.3 ±16.9 |
| TotalN= 644 | 206(32.1%) | 178(27.7%) | **211****(32.9%)** | 192(29.9%) | 196.8 ± 12.9 |
| P value\* | <0.05 | <0.001 | 0.233 | 0.295 | <0.001 |
|  |
| ***Intermediate/******Year*** |  1999 N=170  | **66****(38.8%)** | 24(14.1%) | 38(22.4%) | 36(21.2%) | 41 ± 15.4 |
| 2004 N=196  | **96****(49%)** | 33(16.8%) | 32(16.3%) | 30(15.3%) | 47.8 ± 27.9 |
| 2015 N= 278  | 79(28.6%) | **84****(30.2%)** | 76(27.3%) | 81(29.1%) | 80 ±2.9 |
| TotalN= 644 | **241****(38.6%)** | 141(22.6%) | 146(23.4%) | 107(23.5%) | 158.8 ± 49.8 |
| P value\* | 0.138 | <0.01 | 0.403 | 0.173 | <0.001 |
|  |
| ***Resistance/******Year***  |  1999 N=170  | 60(35.3%) | **124****(72.9%)** | 80(47.1%) | 78(45.9%) | **85.5± 23.6** |
| 2004 N=196  | 54(56.3%) | 111(56.6%) | **114****(58.2%)** | 102(52%) | 95.3 ± 24.2 |
| 2015 N= 278 | **83****(29.6%)** | 90(32.4%) | 93(33.5%) | **125****(44.9%)** | 97.8 ± 16.1 |
| TotalN= 644 | **197****(30.6%)** | **325****(50.5%)** | **287****(45.9%)** | 227(36.4%) | **259 ± 50.2** |
| P value\* | 0.399 | <0.05 | 0.07 | 0.999 | <0.001 |

\* Kruskal-Wallis test

Table 9. Average number of strains resistant to imidazole by year

|  |  |  |
| --- | --- | --- |
|  | YEAR  | P value\* |
| ***Candida albicans*** | **1999****N=282**  | **2004****N=172**  | **2015****N= 176** | **Total** **N=630** | <0.001 |
| 98 ± 39.7 | 78.8 ± 10.1 | 118.3 ± 29.6 | 295 ± 71.3 |
| ***non-Candida albicans*** | **1999****N=170**  | **2004****N=196** | **2015****N= 278** | **Total** **N=644** | <0.001 |
| **85.5± 23.6** | 95.3 ± 24.2 | 97.3 ± 16.6 | **259 ± 50.2** |

\*Kruskal-Wallis test