|  |  |  |
| --- | --- | --- |
|  | ***n: 26*** | ***%*** |
| ***Gender***  |  |  |
|  Female | 10 | 38 |
|  Male | 16 | 62 |
| ***Age (year)*** (median, range) | 7 (1-17) |  |
| ***Underlying disease*** |  |  |
|  ALL | 12 | 46 |
|  AML | 2 | 8 |
|  Aplastic anemia | 3 | 11 |
|  HSCT: | 9 | 35 |
|  Leukemia | 3 | 11 |
|  SCID | 2 | 8 |
|  Thalassemia major | 2 | 8 |
|  Aplastic anemia | 1 | 4 |
|  Infantile Crohn disease | 1 | 4 |

**Table 1** Clinical characteristics of the patients with candidemia

ALL; acute lymphoblastic leukemia, AML; acute myeloblastic leukemia, SCID; severe combined immunodeficiency disease.

**Table 2** Identified risk factors for candidemia and their association with mortality

|  |  |  |
| --- | --- | --- |
| *Factors* | *n:30 (%)* | *p* |
| **Underlying disease** malign  | 17 (57) | >0.05 |
| benign  | 13 (43) |  |
| **Status of the disease** non-remission  | 7 (23) | >0.05 |
| remission | 10 (33) |  |
| **Presence of oral mucositis**  | 11 (37) | >0.05 |
| **Use of broad spectrum antibiotics**  | 25 (83) | >0.05 |
| **Severe neutropenia (<500/mm3)** | 22 (73) | >0.05 |
| **Prior chemotherapy \*** | 25 (83) | >0.05 |
| **Total parenteral nutrition** | 9 (30) | >0.05 |
| **Presence of CVC**  | 26 (88) | >0.05 |
| **Removal of CVC** | 16 (53) | 0.012 |
| **Use of corticosteroids** | 14 (47) | >0.05 |
| **Use of cyclosporine** | 11 (36) | >0.05 |
| **Fluconazole prophylaxis** | 12 (40) |  0.034 |

**\***One month before positive culture

CVC; central venous catheter

**Table 3** Distribution of isolated *Candida* species and source of culture

|  |  |  |
| --- | --- | --- |
| *Candida* species | *n* | *%* |
|  *C. albicans* | 11 | 37 |
|  *C. krusei* | 7 | 24 |
|  *C. parapsilosis* | 2 | 7 |
|  *C. tropicalis* | 2 | 7 |
|  *C. cifferii* | 1 | 3 |
|  *C. glabrata* | 1 | 3 |
|  *C. dubliensis* | 1 | 3 |
|  *C. lusitanea* | 1 | 3 |
|  *C. kefyr* | 1 | 3 |
|  *Candida* *spp*. | 3 | 10 |
| **Source of blood culture** |  |  |
|  Peripheral vein | 12 | 40 |
|  Port catheter | 2 | 7 |
|  CVC | 7 | 24 |
|  Peripheral vein and port catheter | 8 | 26 |
|  Peripheral vein and CVC | 1 | 3 |

CVC; central venous catheter

**Table 4** Characteristics and outcome of the patients

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Patient  | Gender | Age | Disease | Fluconazole prophylaxis | Candida spp. | CVCremoval | Outcome |
| **1** | M | 17 |  AA | yes | C. cifferii | no | exitus |
| **2** | F | 9 | AA\* | yes | C. krusei | yes | survived |
| **3** | F | 16 | AML\* | yes | C. glabrata | no | exitus |
| **4** | M | 4 | ALL\* | yes | C. lusitanea | yes | survived |
| **5** | M | 3 | ALL | no | C. kefyr | yes | survived |
| **6** | M | 14 | AML | yes | C. dubliensis | no | survived |
| **7** | M | 1 | TM\* | yes | C. parapsilosis | yes | survived |
| **8** | F | 13 | TM\* | yes | C. albicans | no | exitus |
| **9** | F | 1 | SCID\* | yes | *Candida* *spp*. | no | exitus |
| **10** | F | 4 | ALL | no | C. krusei | no | survived |
| **11** | F | 2 | SCID\* | yes | C. albicans | yes | exitus |
| **12** | M | 5 | ALL | no | C. tropicalis | yes | survived |
|  | 2.episode |  |  | no | C. albicans | no | exitus |
| **13** | M | 7 | ALL | no | C. albicans | yes | survived |
| **14** | F | 9 | ALL | no | C. parapsilosis | yes | survived |
| **15** | F | 16 | AA | no | C. krusei | yes | survived |
|  | 2.episode |  |  | no | C. krusei | no | survived |
| **16** | M | 2 | CD\* | yes | C. albicans | no | exitus |
| **17** | M | 16 | ALL\* | yes | C. tropicalis | yes | survived |
| **18** | M | 12 | AA | yes | *Candida* *spp*. | no | survived |
| **19** | M | 17 | ALL | no | C. krusei | yes | survived |
| **20** | F | 7 | AML | no | C. krusei | no | exitus |
| **21** | M | 11 | ALL | no | *Candida* *spp*. | no | survived |
| **22** | M | 2 | ALL | no | C. albicans | no | survived |
|  | 2.episode | 2 |  | no | C. albicans | yes | survived |
| **23** | M | 7 | ALL | no | C. albicans | yes | survived |
| **24** | M | 1 | ALL | no | C. albicans | no | survived |
| **25** | M | 3 | ALL | no | *Candida* *spp*. | yes | survived |
|  | 2.episode |  |  | no | C. albicans | yes | survived |
| **26** | M | 17 | ALL | no | C. krusei | yes | survived |

\*HSCT patients

AA; aplastic anemia, ALL; acute lymphoblastic leukemia, AML; acute myeloblastic leukemia, CD; infantile Crohn disease, TM; thalassemia major, SCID; severe combined immunodeficiency disease.