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## Bloodstream infection at children in Belarus

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In a retrospective study from 2009 to 2017 was studied identified etiological pattern of bacteremia. Only for the period allocated 655 pathogens cultured from blood cultures 515 patients aged from 3 weeks to 18 years old. According to the results of the study, the proportion of gram-negative bacteria was 31.7%, gram-positive bacteria-61.9%, fungus -6.4%. Fungemia was registered in different years from 2.2 (2013) to 14.7% (2010) of all positive hemocultures. *Candida parapsilosis* prevails in the structure of pathogens (64.3%) and 27 cases (64.3%) of the genus *Torulopsis*. Among the isolated microorganisms, *staphylococci* prevailed (41%), the 2nd place in the frequency of isolation was occupied by non-fermenting bacteria (16.7%), the 3rd place-bacteria of the Enterobacteriaceae family (14.1%) and the 4th place – *streptococci* (10.8%). The spectrum of gram – negative bacteria in the family Enterobacteriaceae (n=86) is diverse: *Escherichia* – 10.5%, *Salmonella* – 5.8%, *Shigella* – 25.6%, *Proteus mirabilis* – 1.15%, *Providencia stuartii* – 1.15%, *Serratia* – 15.1%, *Klebsiella* – 27.9%, *Enterobacter* – 10.5% and others – 2 (2,3%). Gram-negative non-fermenting bacteria were isolated in 102 (16.7%) episodes of bacteraemia. Among them dominated *Acinetobacter* – 47.1%, *Pseudomonas* – 20.6%, *Achromobacter* – 12.7% and *Stenotrophomonas maltophilia* – 7.8%. The structure of gram-positive bacteria (n=404) was dominated by *staphylococci* (62.1%), with the most frequently isolated coagulase-negative types (84.5%). In the structure of all *staphylococci* (n=251), *S. aureus* was found with a frequency of 15.1%, the most common was *S. epidermis* – 63.3% of cases. *Streptococci* (n=66) were dominated by *Str. pneumonia* (27.3%) and *Str. agalacia* (19.7%) and *Str. viridans* groups (15.2%). *Enterococci* were isolated in 31 patients (5.1%), with almost the same frequency dominated by *Enterococcus faecalis* and *Enterococcus faecium* (41.9% and 38.7%, respectively). During the study period, 7 (1.1%) strains of *Corynebacterium* spp were isolated.

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