

## **CAUSES OF ACUTE HEMATOGENOUS EPIPHYSEAL OSTEOMYELITIS IN INFANTS (LITERATURE REVIEW)**

**Atakulov Jamshid Ostonakulovich\***; **Bayjigitov Nusratilla Isrofilovich\*\*;**  
**Rakhmatov Begzod Nasreddinovich\*\*\***

\*Professor,

Doctor of Medical Sciences, Department of Pediatric Surgery,  
Samarkand State Medical University,  
Samarkand, Republic of UZBEKISTAN

\*\*Assistant,

Department of Pediatric Surgery,  
Samarkand State Medical University,  
Samarkand, Republic of UZBEKISTAN  
Email id: bayjigitovn83@gmail.com

\*\*\*Assistant,

Department of Pediatric Surgery,  
Samarkand State Medical University,  
Samarkand, Republic of Uzbekistan

**DOI: 10.5958/2249-7137.2022.00686.3**

---

### **ABSTRACT**

*The review article analyzes the literature reflecting the current views of acute hematogenous epiphyseal osteomyelitis in children, as well as the methods of diagnosis and treatment of the disease proposed by various authors. The modern problem of acute hematogenous osteomyelitis in young children is due to the severity the course of this purulent-septic pathology, with the continuing difficulty of early diagnosis, unsatisfactory results of treatment. The study of the literature showed that the issues of the pathogenesis of the disease have been studied quite well, however, the methods of examination and surgical treatment proposed by the authors are still controversial. Based on the analysis of literature data and the results of our own research, the main etiological factors and risk factors that determine and predetermine the complex of local destructive and systemic metabolic disorders in OA in young children are presented.*

**KEYWORDS:** *Acute Hematogenous Epiphyseal Osteomyelitis, Purulent-Sepsis, Children.*

---

### **REFERENCES**

1. Akzhigitov, G.N. Hematogenous osteomyelitis [Text] G.N. Akzhigitov, Ya.B. Yudin // M.: Medicine, 2006. - 288 p.
2. Akhtyamov, I.F. Diseases of the hip joint in children. Diagnosis and surgical treatment / I.F. Akhtyamov, A.A. Abakarov, A. Beletsky // Kazan: Center for Operational Printing. - 2008. - 456 p.

3. Akhunzyanov, A.A. Acute hematogenous osteomyelitis of long bones in children [Text] / A.A. Akhunzyanov, P.N. Grebnev, Yu.I. Fatykhov // Osteomyelitis in children: theses of reports of the Russian Symposium on Pediatric Surgery with international participation. - Izhevsk, 2006. - Part 1. - S. 12-14.
  4. Berdiyarova, Sh. Sh., Yusupov, Sh. A., & Nazarova, G. Sh. (2022). Clinical And Laboratory Features Of Chronic Hematogenic Osteomyelitis. Central Asian Research Journal for Interdisciplinary Studies (CARJIS), 2(5), 116-125.
  5. Gumerov, A.A. Modern methods of diagnostics of acute hematogenous osteomyelitis of pelvic bones [Text] / AA Gumerov, NN Sharipov, H.A. Situdikova // Osteomyelitis in children: thesis. Russian Symposium on Pediatric Surgery with International Participation. - Izhevsk, 2006. - Part 1. - S. 82-85.
  6. Kat'ko, V. A. Methods of treatment of acute hematogenous osteomyelitis in children [Text] / V. A. Kat'ko // Medical panorama: a peer-reviewed scientific and practical journal for doctors and business circles of medicine. - 2007. - No. 2 - S. 3-9.
  7. Klimov, Yu.V. Echographic signs of acute hematogenous osteomyelitis of tubular bones in children [Text] / Yu.V. Klimov, Z.Sh. Yumagulov // Osteomyelitis in children: theses. Russian symposium on pediatric surgery with international participation. - Izhevsk, 2006. - Part 1. - S. 116-119.
  8. Kotlyarov A.N. Modern technologies in pediatrics and pediatric surgery [Text] / A.N. Kotlyarov // mat. 5 All-Russian. congr. Moscow, 2006. - S. 370-371
  9. Morozova, O.L. Pathophysiological and clinical aspects of acute hematogenous osteomyelitis in children [Text] / O.L. Morozova, N.P. Chesnokova, D.A. Morozov: Textbook - Saratov, 2005. - 81 p.
  10. Novomlinsky V.V., Malkina N.A., Andreev A.A., Glukhov A.A., Mikulich E.V. Modern aspects of diagnostics and treatment of osteomyelitis. Literature review // Modern problems of science and education. - 2016. - No. 5.; URL: <http://science-education.ru/ru/article/view?id=25326> (date of access: 01.05.2020).
  11. Stepanov E.A. Radiation methods in the diagnosis of acute hematogenous osteomyelitis in young children [Text] / E.A. Stepanov, A.V. Fedin, N.V. Golodenko et al. // Pediatric surgery. - 2005. - No. 3. - S. 4-6.
  12. Shamsiev, A.M. Comprehensive diagnosis of purulent-inflammatory diseases in newborns [Text] / A.M. Shamsiev, V.V. Grishaev, Zh.A. Shamsiev, D.T. Rabbimova // Bulletin of the Russian State Medical University: mater. Vseros. Symposium of pediatric surgeons "Surgery of newborns: achievements and prospects". - Moscow, 2010. - Spec. issue No. 3. - S. 49 - 50.
  13. Yusupov, Sh., & Usanov, A. (2021). Optimization of surgical treatment of chronic relapse of hematogenous osteomyelitis in children. Journal of Hepato-Gastroenterological Research, 2(3.2), 70-72.
  14. TKlemm, K. The use of antibiotic-containing bead chains in the treatment of chronic bone infections [Text] / K. TKlemm // ClinMicrobiolInfect.-2001, Jan.- № 7(1). - P. 28-31
-

15. Kuokkanen, H. O. Radical excision and reconstruction of chronic tibial osteomyelitis with microvascular muscle flaps [Text] / H.O. Kuokkanen, E.J. Tukiainen, S. Asko-Seljavaara // Orihopedics.- 2002, Feb. -tfo25(2).-P. 137-140.
16. Agrawal, S. Comparison of the results of sinus track culture and sequestrum culture in chronic osteomyelitis [Text] / S. Agrawal // ActaOrthopaedicaBelgica. - 2005. - Vol.71, № 2. - P.209-212.
17. Liu, H. Clinical application of the me-dial multiplex flap pedicled with the posterior tibial vessel [Text] / H. Liu, CY. Ye, GR. Yu // ZhongguoXiu Fu Chong Jian WaiKeZaZhi. - 2001, May. - № 15 (3).- P. 147-149.
18. Simpson, A. H. Chronic osteomyelitis. The effect of the extent of surgical resection on infection-free survival [Text] / A.H. Simpson, M. Deakin, J.M. Latham // J Bone Joint Surg Br. - 2001, Apr.- № 83(3). - P.403-407.
19. Shamsiev, A. M., ShA, Y., & ZM, M. (2014). Surgical treatment of children with acute hematogenous osteomyelitis of the bones, forming the hip joint. *Russian Bulletin of Pediatric Surgeons, anesthesiology and resuscitation*, 4(3), 86-89.