2025 SENTABR

NEW RENAISSANCE

INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE VOLUME 2 | ISSUE 9

FULL-TERM AND PRETERM INFANTS WITH PNEUMONIA: A CLINICAL COMPARISON

Karimova Diyora Xolmurodova Ruxshona Baxriyeva Dinara Avazova T.A.

Supervisor: PhD Samarkand State Medical University

Uzbekistan, Samarkand.

https://doi.org/10.5281/zenodo.17115284

Relevance

Pneumonia remains one of the leading causes of morbidity and mortality among children under 5 years of age worldwide, particularly in low- and middle-income countries. Despite numerous studies examining differences in the clinical presentation and outcomes of pneumonia across various pediatric age groups, comparative data on the course of the disease in full-term and preterm infants under 1 year of age remain limited. Given the high prevalence of pneumonia in this age group, assessing differences in the severity of clinical manifestations between full-term and preterm infants is essential for optimizing patient management and improving treatment outcomes. This study was designed to address this gap.

Objective

To compare the clinical features and course of pneumonia in full-term and preterm infants under 1 year of age. The analysis included fever intensity, duration of hospitalization, frequency of admissions to the intensive care unit, and oxygen saturation levels.

Materials and Methods

This retrospective study included 60 infants under 1 year of age hospitalized at ARDMMC with a diagnosis of community-acquired pneumonia between January 1 and December 31, 2022.

Patients were divided into two groups: preterm (gestational age \leq 34 weeks, n=30) and full-term (gestational age \geq 34 weeks, n=30). The parameters assessed were body temperature, length of hospital stay, frequency of ICU admissions, and oxygen saturation (SpO₂). Statistical analysis was performed using the t-test, with p<0.05 considered statistically significant.

Results

The mean age of the preterm group was 6.1 ± 3.2 months, while that of the full-term group was 7.2 ± 2.9 months (p=0.134). Preterm infants had higher fever (39.1 $\pm0.6^{\circ}$ C) compared with full-term infants (38.7 $\pm0.5^{\circ}$ C, p=0.022). The duration of hospitalization was also longer in preterm infants (8.6 ±2.4 vs. 7.4 ± 1.9 days, p=0.012). ICU admissions were more frequent among preterm infants (60% vs. 30%, p=0.031). In addition, preterm infants had lower oxygen saturation levels (91.5 $\pm1.9\%$ vs. 95.2 $\pm1.2\%$, p<0.001).

Conclusion

Pneumonia in preterm infants under 1 year of age follows a more severe clinical course compared to their full-term counterparts. It is characterized by higher fever, longer hospitalization, a greater need for intensive care, and lower oxygen saturation levels.

2025 SENTABR

NEW RENAISSANCE

INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE VOLUME 2 | ISSUE 9

These findings underscore the need for closer monitoring and timely treatment of preterm infants to prevent complications and improve prognosis. In clinical practice, the identified differences should be considered when managing pneumonia in infants.

References

- 1. Азимова, А. А., Маликов, Д. И., & Шайкулов, Х. Ш. (2021). МОНИТИРОИНГ ЭТИОЛОГИЧЕСКОЙ СТРУКТУРЫ СЕПСИСА ЗА. PEDAGOGICAL SCIENCES AND TEACHING METHODS, 48, 18-22.
- 2. Азимова, А. А., Абдухоликов, С. Х., & Бозоров, Х. М. (2023). Осложнение глюкокортикоидной терапии у больных сахарным диабетом, перенесших covid-19. ББК 5я431 М42 Печатается по решению Редакционно-издательского совета Государственного гуманитарно-технологического университета, 18, 10-13.
- 3. Супхонов, У. У., Файзиев, Х. Ф., Азимова, А. А., & Абдурахмонов, Д. Ш. (2024). СУЩЕСТВУЮТ СОВРЕМЕННЫЕ МЕТОДЫ ЛИПОСАКЦИИ, КОТОРЫЕ УСПЕШНО ПРИМЕНЯЮТСЯ ДЛЯ КОНТУРНОЙ ПЛАСТИКИ ТЕЛА. NAZARIY VA AMALIY FANLARDAGI USTUVOR ISLOHOTLAR VA ZAMONAVIY TA'LIMNING INNOVATSION YO'NALISHLARI, 1(2), 18-22.
- 4. АЗИМОВА, А. А., & МАЛИКОВ, Д. И. (2022). ПОВРЕЖДЕНИИ МЯГКОТКАНЫХ СТРУКТУР КОЛЕННОГО СУСТАВА И УЛЬТРАЗВУКОВОЕ ИССЛЕДОВАНИЕ. МОЛОДЕЖНЫЙ ИННОВАЦИОННЫЙ ВЕСТНИК Учредители: Воронежский государственный медицинский университет имени НН Бурденко, 11(2), 10-13.