

AMERICAN Journal of Pediatric Medicine and Health Sciences

Volume 02, Issue 02, 2024 ISSN (E): 2993-2149

TREATMENT OF BABIES BORN WITH ASPHYXIA

Maxmudova Dilafruz Xolmatjon qizi

Assistant of the Department of Pediatrics, Fergana Medical Institute of Public Health.

Abstract: Perinatal asphyxia is a lack of blood flow or gas exchange to or from the fetus in the period immediately before, during, or after the birth process. Perinatal asphyxia can result in profound systemic and neurologic sequelae due decreased blood flow and/or oxygen to a fetus or infant during the peripartum period. When placental (prenatal) or pulmonary (immediate post-natal) gas exchange is compromised or ceases altogether, there is partial (hypoxia) or complete (anoxia) lack of oxygen to the vital organs. This results in progressive hypoxemia and hypercapnia. If the hypoxemia is severe enough, the tissues and vital organs (muscle, liver, heart, and ultimately the brain) will develop an oxygen debt.

Keywords: asphyxia, cord prolapse, umbilical cord, amniotic fluid embolism, anemia, APGAR.

In severe cases, it can cause serious complications and even be life threatening. Immediate treatment is necessary to ensure that the baby receives enough oxygen. We look at the causes and symptoms of birth asphyxia as well as the potential complications, treatment, and prevention. Other names for birth asphyxia include perinatal asphyxia and neonatal asphyxia. Birth asphyxia occurs when an infant does not receive enough oxygen when born, potentially leading to difficulty breathing. It can happen just before, during, or after birth. Insufficient oxygen supply to the body can cause low levels of oxygen or a buildup of excess acid in the baby's blood. These effects can be life threatening and require immediate treatment. In mild or moderate cases, babies may recover fully. However, in severe cases, birth asphyxia can cause permanent damage to the brain and organs or be fatal. Birth asphyxia rates are lower in developed countries, with a rate of 2 in 1,000 births Trusted Source. In areas of developing countries where there is limited access to neonatal care, this rate increases up to 10 times.

Causes: a variety of factors can cause birth asphyxia. These can relate to the pregnant person or the fetus, and they include:

Umbilical cord prolapse: This birth complication occurs when the umbilical cord leaves the cervix before the baby.

Compression of the umbilical cord

Meconium aspiration syndrome: This syndrome occurs when a baby inhales a mixture of amniotic fluid and meconium, their first feces.

Premature birth: If a baby is born before <u>37 weeks</u>, their lungs may not yet be fully developed, and they may be unable to breathe properly.

Amniotic fluid embolism: Although <u>rareTrusted Source</u>, this complication — in which amniotic fluid enters the pregnant person's bloodstream and causes an allergic reaction — is very serious.

Uterine rupture: ResearchTrusted Source has shown a significant association between tears in the muscular wall of the uterus and birth asphyxia.

The placenta separates from the uterus: This separation can happen before the birth.

Infection during labor, prolonged or difficult labor, high or low blood pressure in pregnancy

Anemia: In a baby with <u>anemia</u>, the blood cells are not carrying enough oxygen. Not enough oxygen in the pregnant person's blood: The level of oxygen may be insufficient before or during birth.

Risk factors for birth asphyxia <u>includeTrusted Source</u>: the pregnant person being between the ages of 20 and 25 years, multiple births, such as delivering twins or triplets, not attending prenatal care, low birth weight, abnormal position of the fetus during delivery, <u>preeclampsia</u> or eclampsia.

Signs and symptoms of birth asphyxia can occur before, during, or just after birth. Before birth, a baby might have an abnormal fetal heart rate or low blood pH levels, which indicate excess acid. Signs in the baby at birth can indicate a lack of oxygen or blood flow. They include: unusual skin tone, the baby being silent and not crying, low heart rate, weak muscle tone, weak reflexes, lack of breathing or difficulty breathing, amniotic fluid stained with meconium, seizures, poor circulation, the baby being limp or lethargic, low blood pressure, lack of urination, abnormal blood clotting. Another indicator is a <u>low Apgar score</u>. Apgar is a rating system that healthcare professionals use to measure the health of a newborn. Apgar stands for:

Appearance Pulse Grimace Activity Respiration

Healthcare professionals will give a baby a rating from 0 to 10, depending on the health of their: skin tone, heart rate, muscle tone, reflexes, breathing. A low Appar score (between 0 and 3) that lasts for more than 5 minutes can indicate birth asphyxia.

Treatment

The type of treatment will depend on the severity and cause of the birth asphyxia. Immediate treatments include: providing extra oxygen to the pregnant person if birth asphyxia happens before delivery, emergency or <u>cesarean</u> delivery, suctioning fluid away from the airways in the case of meconium aspiration syndrome, putting the newborn on a respirator.

For severe cases of birth asphyxia, treatment may include: placing the baby in a hyperbaric oxygen tank, which supplies 100% oxygen to the baby, induced hypothermia to cool the body and help <a href="https://prevent.org/p

In conclusion, low oxygen levels may decrease a baby's heart rate, blood pressure and blood flow out of the heart. This may limit the blood flow to organs and tissues, leading to improper cell function or damage. Organs typically affected by lowered oxygen include the brain, heart and blood vessels, gastrointestinal tract, lungs and kidneys.

Reference:

- 1. Anvarovna, A. I., & Melibaevna, B. K. (2022). JUVENILE IDIOPATHIC ARTHRITIS. SCIENTIFIC JOURNAL OF RESEARCH IN MEDICINE (SJRM), 1(4), 6-8.
- 2. Ахмедова, М. М., & Райимова, З. М. (2023). РЕГИОНАЛЬНЫЕ ОСОБЕННОСТИ РАСПРОСТРАНЕННОСТИ АЛЛЕРГИЧЕСКИХ ЗАБОЛЕВАНИЙ У ДЕТЕЙ ПО

- ДАННЫМ СТАЦИОНАРОВ ГОРОДА ФЕРГАНЫ ЗА 10 ЛЕТ (2007-2016гг.). FORMATION OF PSYCHOLOGY AND PEDAGOGY AS INTERDISCIPLINARY SCIENCES, 2(20), 167-172.
- 3. Anvarovna, A. I., Melibayevna, B. X., Maxamatjonovna, R. Z., Zaxriddinoich, I. B., & Islomkulovich, U. M. (2023). The Urgency of Introducing the Service of Complex Early Intervention in Family Clinics. BioGecko A Journal for New Zealand Herpetology, 12(03), 1139-1145.
- 4. Ахмедова, М. М. (2023, June). РАСПРОСТРАНЕННОСТЬ СТРУКТУРЫ И ФАКТОРЫ РИСКА РАЗВИТИЯ АЛЛЕРГИЧЕСКИХ ЗАБОЛЕВАНИЙ У ДЕТЕЙ ФЕРГАНСКОЙ ДОЛИНЕ. In INTERDISCIPLINE INNOVATION AND SCIENTIFIC RESEARCH CONFERENCE (Vol. 1, No. 10, pp. 5-11).
- 5. Melibayevna, B. X. (2023). Measures to Improve the Quality of Life of Patients with Comorbid Heart Pathology and Increase the Effectiveness of Their Treatment. Scholastic: Journal of Natural and Medical Education, 2(3), 34-36.
- 6. N-A, O. I. X., LI, V., & ST K, S. I. OILA.
- 7. Мухидинова, Ш. Б. ГИПЕРЭНДЕМИЧЕСКИЕ ОЧАГИ ГЕЛЬМИНТОЗОВ И ЭПИДЕМИОЛОГИЧЕСКАЯ СИТУАЦИИ.
- 8. Юсупова, Р., Мухидинова, Ш., & Маматкулова, М. (2014). Гельминтозы и беременность. Журнал проблемы биологии и медицины, (3 (79)), 65-66.
- 9. Юсупова, Р., Маматкулова, М., & Мухидинова, Ш. (2014). Вирусли гепатит с касаллигини хомиладорларда кечиши. Журнал проблемы биологии и медицины, (3 (79)), 184-185.
- 10. Baxramovna, MS (2022). Lyamblioz Fonida Covid-19 Kasalligining Kliniko-Epidemiologik Xususiyatlari. Barqarorlik Va Yetakchi tadqiqotlar Onlayn Ilmiy Jurnali, 2 (1), 194-196.
- 11. Маматкулова, М. Т., Мухидинова, Ш. Б., & Хошимова, А. Ё. (2020). ИЗУЧЕНИЕ МНОГОЛЕТНЕЙ ДИНАМИКИ ЗАБОЛЕВАЕМОСТИ ВИРУСНЫМ ГЕПАТИТОМ А И ОЦЕНИТЬ ЭФФЕКТИВНОСТЬ ВАКЦИНАЦИИ. Интернаука, (15-1), 53-55.
- 12. Мухидинова, Ш. Б. (2018). О пораженности населения Ферганской области глистными инвазиями. Биология и интегративная медицина, (4), 33-38
- 13. Kamolidinovich, X. D. (2023). Methods for Diagnosing Ureterolithiasis and its Complications in Ct Scans. AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI, 2(12), 90-93.
- 14. Davron, X. (2023). Diagnostic Possibilities of Ultrasound in Polycystosis of the Kidney. Eurasian Medical Research Periodical, 20, 43-47.
- 15. G'aniyevich, R. I. (2023). Formation of National Crafts in the family of Primary School students. Best Journal of Innovation in Science, Research and Development, 283-286.
- 16. Рапиков, И. Г. (2019). Женское семейное членство в обучении учителя. Научные горизонты, (4), 85-89.
- 17. Рапиков, И. Г. (2019). Роль народных подходов к учащимся начальной школы на основе труда, экономики и предпринимательства. доктора/кандидата наук предлагаем вступить в редакционную коллегию журнала (подробности на сайте), 90.
- 18. Rapikov, I. (2020). SCHOLARS'VIEWS ON THE FORMATION OF SAVINGS AND ENTREPRENEURSHIP ON THE BASIS OF LABOR EDUCATION IN PRIMARY SCHOOL STUDENTS. Scientific and Technical Journal of Namangan Institute of Engineering and Technology, 2(11), 309-313.
- 19. Pulatova, Z., & Ganijonov, H. (2023, June). MODERN VIEWS OF BEHAVIORAL CHANGES IN 16-17-YEAR-OLD STUDENTS. In International Conference on Education and Social Science (Vol. 1, No. 2, pp. 30-32).

- 20. Jalolidinovna, I. Z. Cellular Changes in Cardiomyocytes Due to Ischemia and Necrosis. JournalNX, 7(04), 1-2.
- 21. Erkinovich, M. B. (2023). IMPROVING THE EFFECTIVENESS OF FIRST AID TO PATIENTS WITH POLYTRAUMA. Western European Journal of Medicine and Medical Science, 1(4), 67-71.
- 22. Erkinovich, M. B. (2023). Prevention and Modern Treatment of Fatty Embolism in Traumatological Patients. Eurasian Medical Research Periodical, 21, 158-164.
- 23. Erkinovich, M. B. (2022). Increase the Effectiveness of Prevention and Treatment of Osteoporosis. Central Asian Journal of Medical and Natural Science, 3(3), 811-818.
- 24. Исаков, К. К., & Махмудов, Б. Э. (2020). ФИЗИЧЕСКАЯ РЕАБИЛИТАЦИЯ В ТРАВМАХ НАДКОЛЕННИКА. Экономика и социум, (6 (73)), 681-684.
- 25. Madaminjonovna, Q. Z. (2024, January). THE PROCESS OF DEVELOPING HYPERTENSION. In Proceedings of International Conference on Educational Discoveries and Humanities (Vol. 3, No. 2, pp. 177-182).
- 26. Madaminjonovna, K. Z. (2024). ETIOLOGICAL FACTORS CAUSING HYPERTENSION DISEASE AND MEASURES TO CONTROL IT. American Journal of Pediatric Medicine and Health Sciences (2993-2149), 2(1), 326-332.
- 27. Болтабаев, М. У. (2023). КОРОНАВИРУС (COVID-19) ХАМРОХ КАСАЛЛИК БИЛАН КЕЧГАНДА КАСАЛЛИКДАН КЕЙИНГИ РЕАБЛИТАЦИЯ ДАВРИДА АНИКЛАНАДИГАН ЎЗГАРИШЛАР ВА УЛАРНИ БАРТАРАФ ЭТИШ ЧОРАЛАРИ. Scientific Impulse, 2(13), 178-182.
- 28. Imomaliyevna, B. D. (2024, January). PREVALENCE OF INFECTIOUS DISEASES. In Proceedings of International Conference on Educational Discoveries and Humanities (Vol. 3, No. 2, pp. 164-168).
- 29. Imomaliyevna, B. D. (2024, January). MEASLES CAUSE SYMPTOMS AND TREATMENT. In Proceedings of International Conference on Modern Science and Scientific Studies (Vol. 3, No. 2, pp. 1-5).