



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

MODERN APPROACHES TO THE MANAGEMENT OF POSTPARTUM HEMORRHAGE

Mirzajonova Yoqutxon Nosirjon qizi

Fergana Medical Institute of Public Health

Assistant of the Department of Obstetrics and Gynecology

Annotation

This thesis examines current best practices in postpartum hemorrhage prevention and treatment, emphasizing the critical importance of timely intervention and comprehensive therapeutic protocols. Recent advances in diagnostic accuracy, pharmacological interventions, and resource optimization have demonstrated significant potential for reducing maternal morbidity and mortality, particularly when implemented within the first three hours following delivery.

Keywords: postpartum hemorrhage, maternal mortality, tranexamic acid, uterotonic agents, blood loss assessment, emergency obstetric care, multidisciplinary management, early intervention protocols

Today's postpartum hemorrhage remains one of the most pressing challenges in modern obstetric practice, affecting millions of women worldwide annually. The condition, defined as blood loss exceeding five hundred milliliters following vaginal delivery or one thousand milliliters after cesarean section, continues to pose significant threats to maternal health despite substantial advances in medical care. Current epidemiological data indicates that while high-income countries have achieved remarkable reductions in hemorrhage-related mortality, low and middle-income nations continue to experience disproportionately high rates of adverse outcomes. The global burden of postpartum hemorrhage necessitates urgent implementation of updated management approaches that combine evidence-based interventions with practical considerations for diverse healthcare settings.

The contemporary management of postpartum hemorrhage has significantly evolved following major clinical trials and reviews from 2020 to 2024. Early intravenous administration of tranexamic acid (within 3 hours of birth) has been shown to reduce maternal mortality from bleeding, prompting the WHO to



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

recommend 1 gram IV immediately after delivery, with a second dose if bleeding continues after 30 minutes or recurs within 24 hours. Accurate assessment of blood loss is crucial, as visual estimation often underestimates actual loss by 30–50%. The use of a calibrated blood-collection drape enables early and objective diagnosis, allowing timely intervention. Current protocols now include quantitative blood loss measurement, continuous vital sign monitoring, and lab evaluation of hemoglobin and coagulation status. The multidisciplinary management of postpartum hemorrhage involves coordinated care among obstetricians, anesthesiologists, hematologists, and nursing staff, focusing on rapid response, standardized communication, and escalation protocols. Hospitals with structured massive transfusion protocols report better maternal outcomes than those using individualized approaches. Pharmacological treatment includes tranexamic acid and uterotonics, with oxytocin as first-line therapy followed by ergot alkaloids or prostaglandin analogues if needed. Early and appropriately timed medication administration is critical for effectiveness, with emphasis on avoiding contraindications and timely escalation when bleeding persists.

Surgical interventions for refractory postpartum hemorrhage have evolved to include minimally invasive techniques alongside traditional approaches. Balloon tamponade devices provide effective temporary control while allowing time for definitive intervention. When surgical management becomes necessary, uterine compression sutures, arterial ligation, and selective arterial embolization offer alternatives to hysterectomy, preserving fertility while achieving hemostatic control.

In conclusion, modern postpartum hemorrhage management combines evidence-based protocols, advanced diagnostics, and multidisciplinary care. Early tranexamic acid use, accurate blood loss measurement, and structured response systems significantly reduce maternal morbidity and mortality. Future efforts should focus on point-of-care diagnostics, resource optimization in low-resource areas, and comprehensive healthcare provider training. Reducing the global burden depends on widespread adoption of these strategies, especially in resource-limited settings.



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

References

1. Umarovich, B. M. (2025). DEVELOPING OF VIRAL INFECTIONS IN HEMATOPOIETIC STEM-CELL TRANSPLANT (HSCT) RECIPIENTS. Web of Medicine: Journal of Medicine, Practice and Nursing, 3(5), 468-473.
2. Muhammadiev, S. (2025). HEMIEPIPHYSIODESIS IN PEDIATRIC ORTHOPAEDICS AS A TREATMENT OF KNEE DEFORMITIES. International Journal of Artificial Intelligence, 1(4), 225-227.
3. Pulatjonovna, U. M. (2024). METABOLITE SYNDROME AND COGNITIVE IMPAIRMENT. IMRAS, 7(6), 419-423.
4. Умарова, М., & Кодиржонов, Н. (2022). ТРОМБОЛИТИЧЕСКАЯ ТЕРАПИЯ В ЛЕЧЕНИИ ИШЕМИЧЕСКОГО ИНСУЛЬТА. Theoretical aspects in the formation of pedagogical sciences, 1(5), 218-220.
5. Умарова, М. (2021). МИГРЕН КАСАЛЛИГИ ВА УНИНГ ШОШИЛИНЧ ТЕРАПИЯСИНИ ТАКОМИЛЛАШТИРИШ. ИНТЕРНАУКА, 47, 93.
6. Хошимова, А. Ё. (2018). ВЛИЯНИЕ ЗАГРЯЗНЕНИЯ ОКРУЖАЮЩЕЙ СРЕДЫ НА ЗАБОЛЕВАЕМОСТЬ БРОНХИАЛЬНОЙ АСТМОЙ. Актуальные вопросы современной пульмонологии. Ма, 200.
7. АБДУГАНИЕВА, А. Ё., & ЮЛДАШЕВА, Х. Б. К. ЛАБОРАТОРНАЯ ДИАГНОСТИКА ПРИ COVID-19. ИНТЕРНАУКА Учредители: Общество с ограниченной ответственностью "Интернаука", 37-38.
8. Умарова, М. (2021). ИНСОМНИЯ ВА МЕТАБОЛИК СИНДРОМНИНГ ЎЗАРО КОМОРБИДЛИГИ МУАММОНИНГ ДОЛЗАРБЛИГИ. Интернаука, (20-7), 29-30.
9. Исмаилов, С. И., & Маматханова, Г. М. (2022). ЭЛЕКТРОННЫЙ ДОКУМЕНТООБОРОТ КАК ВАЖНЕЙШИЙ ФАКТОР ПОВЫШЕНИЯ ЭФФЕКТИВНОСТИ УПРАВЛЕНИЯ ЗДРАВООХРАНЕНИЕМ. Евразийский журнал медицинских и естественных наук, 2(8), 38-45.
10. Erkinovich, M. B. (2023). Prevention and Modern Treatment of Fatty Embolism in Traumatological Patients. Eurasian Medical Research Periodical, 21, 158-164.
11. Abdujabborova, C. (2024). O'tkir zaharliligini aniqlash" LUPINUS AS". Universal xalqaro ilmiy jurnal, 1(9), 151-157.



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

12. Abdujabborova, C. (2024). PSORALEA DRUPACEAE BUNGE (PSORALEA KOSTYANKOVA OR AKKURAI) CHEMICAL COMPOSITION AND APPLICATION IN MEDICINE. B INTERNATIONAL BULLETIN OF MEDICAL SCIENCES AND CLINICAL RESEARCH (T. 4, Выпуск 1, сс. 9–14). Zenodo.
13. Erkinovich, M. B. (2025, February). ACCUMULATION OF FLUID IN THE KNEE JOINT. In The Conference Hub (pp. 31-35).
14. Erkinovich, M. B. (2025). EFFECT OF JOINT FLUID ON JOINT ACTIVITY IN THE BODY. Web of Medicine: Journal of Medicine, Practice and Nursing, 3(2), 256-260.
15. Maxmudovna, M. G., Qizi, S. M. I., & Xasanboyevich, X. S. (2024). VIRAL HEPATITIS DISEASE AND ITS SPREAD AMONG THE POPULATION. THE EXAMPLE OF RISHTAN DISTRICT. Eurasian Journal of Medical and Natural Sciences, 4(1-2), 118-121.
16. Mamatkhanova, G. M., & Ismailov, S. I. (2021). Optimization Of Medical Records And Implementation Of Electronic Systems In Healthcare. The American Journal of Medical Sciences and Pharmaceutical Research, 3(01), 193-198.
17. Маматханова, Г. (2021). Оптимизация медицинской учетной документации и внедрение электронных систем в здравоохранение. Общество и инновации, 2(8/S), 61-67.
18. Мурадимова, А. Р. (2019). Нейрофизиологический аспект метаболической терапии хронической церебральной ишемии. In Инновации в медицине. Материалы I международной научно-практической конференции-Махачкала, 2019.-Том. II.-232 с. (p. 192).
19. Lutfidin o'g'li, Y. B. (2025). ENDEMIK BUQOQ KASALLIGINI TA'SIRIDAN YO'LDOSH TERMINAL SO'RGICHLARDAGI QON TOMIRLARNING PATOMORFOLOGIK O'ZGARISHLARI. THEORY AND ANALYTICAL ASPECTS OF RECENT RESEARCH, 3(33), 322-325.
20. Lutfidin o'g'li, Y. B. (2025). Major Hystologic Types of Lung Cancer. Miasto Przyszłości, 57, 81-86.



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

21. Yusupov, B., & Xatamova, M. (2025). GIPERTIREOZ TA'SIRIDAN YO'LDOSH TERMINAL SO'RG'ICHLARDAGI QON TOMIRLARNING PATOMORFOLOGIK O'ZGARISHLARI. Modern Science and Research, 4(2), 432-437.
22. Habibullayevna, A. G., & Shavkatjon o'g'li, Q. S. (2025, February). STRUCTURE AND INTRACELLULAR ACTIVITY OF THE DNA-CONTAINING HERPES SIMPLEX VIRUS. In International Educators Conference (pp. 126-132).
23. Мурадинова, А. Р. (2019). КЛИНИКО-НЕВРОЛОГИЧЕСКИЕ ОСОБЕННОСТИ ТЕЧЕНИЯ СО-СУДИСТОЙ ЭПИЛЕПСИИ, ПРОГНОЗИРОВАНИЯ И ЛЕЧЕНИЯ. In Инновации в медицине. Материалы I международной научно-практической конференции-Махачкала, 2019.-Том. II.-232 с. (p. 178).
24. Мурадинова, А. Р. (2019). КЛИНИКО-ДИАГНОСТИЧЕСКИЕ АСПЕКТЫ И СОВРЕМЕННЫЕ ПОДХОДЫ К ЛЕЧЕНИЮ СОСУДИСТОЙ ДЕМЕНЦИИ. In Инновации в медицине. Материалы I международной научно-практической конференции-Махачкала, 2019.-Том. II.-232 с. (p. 185).
25. Xojiakbarovna, K. M. (2025). SKLETAL MUSCLE RELAXANTS. PERIPHERALLY ACTING SKLETAL MUSCLE RELAXAXANTS: NEUROMUSCULAR BLOCKERS AND SYNTHETIC COMPETITIVE BLOCKERS. Web of Medicine: Journal of Medicine, Practice and Nursing, 3(5), 509-514.
26. Yevgenevna, S. O. (2025). PREDICTION OF PREECLAMPSIA DEVELOPMENT IN PREGNANT WOMEN WITH OVERWEIGHT AND OBESITY. Web of Medicine: Journal of Medicine, Practice and Nursing, 3(5), 561-568.
27. Solijon o'g'li, A. S. (2024). Antibiotic Therapy for Severe Infections in Infants and Children. Innovative Society: Problems, Analysis and Development Prospects (Spain), 6, 21-24.



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

28. Solijon o'g'li, A. S. (2024, May). Measles in Children, its Symptoms and Treatment. In International Congress on Biological, Physical And Chemical Studies (ITALY) (pp. 102-106).
29. Isroilova, G. (2023). DEVELOPING THE PRINCIPLES OF STUDYING AND TREATMENT OF VAGINAL DYSBIOSIS DURING PREGNANCY. Modern Science and Research, 2(4), 52-53.
30. Юсупова, Р. Т., & Шаланкова, О. Е. (2020). РЕПРОДУКТИВНОЕ ЗДОРОВЬЕ ДЕВОЧЕК-ПОДРОСТКОВ, ПРОЖИВАЮЩИХ В УСЛОВИЯХ ФЕРГАНСКОЙ ДОЛИНЫ. In Университетская наука: взгляд в будущее (pp. 612-614).
31. Каттаханова, Р. Ю. (2022). ДИАГНОСТИКА И ТЕРАПИЯ АТОПИЧЕСКОЙ БРОНХИАЛЬНОЙ АСТМЫ, СОЧЕТАННОЙ С АЛЛЕРГИЧЕСКИМИ РИНОСИНУСИТАМИ У ДЕТЕЙ. ББК 54.11 А-380, 65.
32. Каттаханова, Р. Ю. (2019). ИННОВАЦИОННЫЕ ТЕХНОЛОГИИ В ЛЕЧЕНИИ ХЕЛИКОБАКТЕРНОЙ ИНФЕКЦИИ У ДЕТЕЙ. In Инновации в медицине. Материалы I международной научно-практической конференции-Махачкала, 2019.-Том. II.-232 с. (р. 33).
33. Каттаханова, Р. Ю. (2019). ПРОСТАЦИКЛИН-ТРОМБОКСАНОВАЯ СИСТЕМА И ТРОМБОЦИТАРНО-СОСУДИСТЫЙ ГЕМОСТАЗ У БОЛЬНЫХ С ОСТРЫМ КОРОНАРНЫМ СИНДРОМОМ. Евразийский кардиологический журнал, (S1), 207-208.
34. Каттаханова, Р. Ю. (2017). СОСТОЯНИЕ ПРОСТАЦИКЛИН-ТРОМБОКСАНОВОЙ СИСТЕМЫ И ФУНКЦИОНАЛЬНЫЕ СВОЙСТВА ТРОМБОЦИТОВ У БОЛЬНЫХ ИШЕМИЧЕСКОЙ БОЛЕЗНЬЮ СЕРДЦА. Актуальные научные исследования в современном мире, (2-3), 69-74.
35. Каттаханова, Р. Ю. (2018). ИСПОЛЬЗОВАНИЕ ИННОВАЦИОННЫХ ТЕХНОЛОГИЙ В ДИАГНОСТИКЕ И ЛЕЧЕНИИ ХЕЛИКОБАКТЕРНОЙ ИНФЕКЦИИ. Инновации в образовании и медицине. Материалы V Все, 192.



Scientific Conference on Multidisciplinary Studies

Hosted online from Bursa, Turkey

Website: econfseries.com

11th June, 2025

36. Пулатова, Н. С., Йигиталиев, А. Б., & Абдурашидов, А. А. ЭПИДЕМИОЛОГИЯ РАКА ТЕЛА МАТКИ В ФЕРГАНСКОЙ ОБЛАСТИ. 1-SON, 1-JILD IYUL 2022 1-QISM, 29.
37. Эгамбердиев, Д. Э., Абдурашидов, А. А., & Эргашов, У. Ш. ПРОФИЛАКТИКА И МЕТОФИЛАКТИКА МОЧЕКАМЕННОЙ БОЛЕЗНИ.
38. Husanboy, U. (2024). ACUTE HEMORRHAGIC CYSTITIS DISEASE IN CHILDREN AND ITS DEVELOPMENT IN THE CHILD'S BODY. In International Conference on Multidisciplinary Sciences and Educational Practices (pp. 88-94).
39. Умарова, М. (2021). ИНСУЛТДАН КЕЙИНГИ ТАЛВАСА СИНДРОМИ. Интернаука, (18-5), 46-48.
40. Pattoyevich, G. A. (2025). IRON DEFICIENCY ANEMIA IN CHILDREN: EARLY DIAGNOSIS AND MODERN TREATMENT APPROACHES. Web of Medicine: Journal of Medicine, Practice and Nursing, 3(5), 494-501.
41. Ravshanovna, R. Y., & Abduxoliq o'g'li, R. A. (2024). Clinical and Morphological Characteristics and Treatment of Gaucher Disease. Miasto Przyszłości, 49, 1407-1412.