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Congenital Defects of the Central Nervous System

Amirkul Shodiev

Associate Professor, DSc, Neurosurgery Department Samarkand State Medical University, Samarkand Uzbekistan

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Congenital malformations represent the most important medical and social problem. The relevance of their study is due to the significant proportion of this pathology in the structure of infant, perinatal mortality and childhood disability [1-8]. The population frequency of congenital malformations according to the WHO Expert Committee varies in different countries from 2.7 to 16.3%, averaging 4-6%. Neural tube defects occupy one of the leading places among all detected human congenital anomalies - 10-30% [9-13]. The true frequency of malformations, including those of the central nervous system, remains unspecified, this is due to the difficulties of diagnosis and different approaches to their registration. Therefore, one of the important tasks of medicine is the objectification of the collection, accounting of information and verification of the data obtained. Malformations of the central nervous system represent an extensive polyetiological group of disorders of early and late ontogenesis. In most cases, it is possible to establish the multifactorial nature of congenital anomalies. In this regard, it remains relevant to search for the most informative risk factors for their formation, which allow predicting the likelihood of this pathology and planning preventive measures to prevent the birth of children with congenital defects [14, 15, 16].

Various combined actions of many factors can act as leading causes. It has been proven that a significant contribution to the occurrence of congenital malformations in children is made by the initial state of health of the parents, the adverse effects of the environment, infections, and hereditary burden [16-21].

Within the framework of the national monitoring program for congenital malformations, in recent years, information has begun to appear on the frequency and structure of malformations in various regions of Uzbekistan, but the results of studies presented on this issue in the literature are few and contradictory. There is not enough information regarding the outcomes of congenital malformations of the central nervous system, the characteristics of the course and frequency of detection of the main neurological syndromes, and the results of instrumental examination of children. There is no single point of view regarding the use of complex diagnostics of CNS defects in the prenatal and postnatal periods [22-25].

Thus, the need for clinical and epidemiological studies, the objective difficulties in predicting and diagnosing congenital malformations of the CNS, as well as the lack of reliable information on perinatal outcomes, the course and follow-up of children with neural tube defects, served as the basis for writing this review.

1. Mamatkulovich M. A., Abdukholikovich A. M. Correlation of clinical signs with the outcome of traumatic brain injury and their prognostic value //European science review. – 2019. – №. 11-12. – С. 29-34.\
2. Adkhamjonovich N. A., Abdukholikovich A. M. Characteristic features of changes in the field of vision in patients with brain tumors //European science review. – 2019. – №. 11-12. – С. 35-39.
3. Набиев А. А. и др. Изучение особенностей изменения полей зрения у больных с опухолями головного мозга //Вестник неврологии, психиатрии и нейрохирургии. – 2017. – №. 8. – С. 57-60.
4. Abdukholikovich A. M., Mamatkulovich M. A., Abdurakhmonovna M. S. The study of the improved complex neurosurgical treatment in patients with posttraumatic chronic subdural hematomas and hygromas //European science review. – 2016. – №. 1-2. – С. 28-32.
5. Abdukholikovich A. M., Mamatkulovich M. A., Abdurakhmonovna M. S. The study of the results of endolumbal insufflation of ozone and pyracetam in the treatment of posttraumatic epilepsy //European science review. – 2015. – №. 11-12. – С. 29-32.
6. Ravshanov D. M. Optimization of the Results of Surgical Treatment of Parasagittal Meningiomas of the Brain //Texas Journal of Medical Science. – 2022. – Т. 10. – С. 48-51.
7. Ravshanov D. M. Optimization of the Results of Surgical Treatment of Parasagittal Meningiomas of the Brain //Texas Journal of Medical Science. – 2022. – Т. 10. – С. 48-51.
8. Norkulov N. U., Shodiev A. Sh., Ravshanov D. M. Determination of the efficacy of the use of nootropes in the treatment of brain concusion in the acute period https://doi.org/10.17605/OSF.IO/JQF9S

9. Aliev, M. A., A. M. Mamadaliev, and S. A. Mamadalieva. "RESEARCH OF ESSENTIAL ELEMENTS COMPOSITION IN THE CEREBROSPINAL FLUID IN PATIENTS WITH OUTCOMES OF TRAUMATIC BRAIN INJURY."
10. Агзамов, М., И. Агзамов, and Ш. Абдувалиев. "Нетравматические внутримозговые кровоизлияния у детей: Клиника, диагностика и методы лечения." *Журнал вестник врача* 1.3 (2017): 30-36.
11. Примов, ЗухриддинАмриддинЎғли, ДавронМавлоновичРавшанов, and АмиркулШодиевичШодиев. "ДИСКЧУРРАЛАРИРИВОЖЛАНГАНБЎЙИНОСТЕОХОНДРОЗЛАРИНИНГЭТИОПАТОГЕНЕЗИВАКЛИНИКМАНЗАРАСИ." *Academic research in educational sciences* 2.6 (2021): 578-583.
12. Алиев, М. А., А. М. Мамадалиев, and С. А. Мамадалиева. "ЭФФЕКТИВНОСТЬ ЭНДОЛЮМБАЛЬНОЙ ИНСУФФЛЯЦИИ ОЗОНА И ПИРАЦЕТАМА ПРИ ЛЕЧЕНИИ ПОСТТРАВМАТИЧЕСКИХ ЦЕРЕБРАЛЬНЫХ АРАХНОИДИТОВ." *Международный научно-исследовательский журнал* 10 (41) (2015).
13. Алиев, МансурАбдухоликович, АбдурахмонМаматкуловичМамадалиев, and СаодатАбдурахмоновнаМамадалиева. "Динамические изменения состава макро-и микроэлементов в сыворотке крови у больных с различными последствиями краниоцеребральной травмы." *Universum: медицина и фармакология* 12 (23) (2015).
14. Алиев, Мансур Абдухоликович. "АНАЛИЗ МЕТОДОВ ДИАГНОСТИКИ И ВЫБОРА ОПЕРАТИВНЫХ ДОСТУПОВ ПРИ РАЗЛИЧНЫХ ОПУХОЛЯХ СПИННОГО МОЗГА." *Достижения науки и образования* 6 (86) (2022): 76-78.
15. Шодиев, Амиркул Шодиевич. "К ОСОБЕННОСТЯМ ТЕЧЕНИЯ ОПУХОЛЕЙ МОЗЖЕЧКА." *Достижения науки и образования* 6 (86) (2022): 24-27.
16. Aliev, M. A., et al. "The Result of Surgical Treatment of Secondary Stenosis of the Cervical Spinal Canal Due to Instability after Vertebra-Spinal Trauma (Clinical Case)." (2022).
17. Равшанов, Даврон Мавлонович. "ПАРАСАГИТТАЛНЫЕ МЕНИНГИОМЫ БОЛЬШИХ ПОЛУШАРИЙ ГОЛОВНОГО МОЗГА (ОБЗОР ЛИТЕРАТУРЫ)." *Достижения науки и образования* 6 (86) (2022): 104-106.
18. Tashmurodovich, Husanov Zafar. "ANALYSIS OF DIAGNOSTICS AND SELECTION OF SURGERY APPROACHES IN VARIOUS SPINAL CORD TUMORS." *Достижения науки и образования* 6 (86) (2022): 96-98.
19. Juraev, A. M. "TO THE QUESTION OF COMPLEX TREATMENT OF NEUROEPITHELIAL TUMORS OF THE BRAIN." *Достижения науки и образования* (2022): 120.
20. Juraev, A. M. "TO THE PECULIARITIES OF THE COURSE OF CEREBELLAR TUMORS Juraev AM." *Достижения науки и образования* (2022): 118.
21. Abdukholikovich, Aliev Mansur. "ANALYSIS OF CHANGES IN THE FIELD OF VISION IN PATIENTS WITH BRAIN TUMORS." *Достижения науки и образования* 6 (86) (2022): 78-81.\
22. Mamatkulovich, MamadalievAbdurakhmon. "RESULTS OF ANALYZING NEUROLOGICAL SYMPTOMS IN ACUTE AND LONG-TERM PERIODS OF BRAIN CONCUSSION IN 63 PATIENTS." *Достижения науки и образования* 6 (86) (2022): 27-29.
23. Алиев, Мансур Абдухоликович. "АНАЛИЗ МЕТОДОВ ДИАГНОСТИКИ И ВЫБОРА ОПЕРАТИВНЫХ ДОСТУПОВ ПРИ РАЗЛИЧНЫХ ОПУХОЛЯХ СПИННОГО МОЗГА." *Достижения науки и образования* 6 (86) (2022): 76-78.
24. Abdukholikovich, Aliev Mansur. "ANALYSIS OF CHANGES IN THE FIELD OF VISION IN PATIENTS WITH BRAIN TUMORS." *Достижения науки и образования* 6 (86) (2022): 78-81.
25. Mamadaliev, A. M., et al. "By studying the composition of macronutrients are in biological media in post-traumatic cerebral arachnoiditis." *Abstracts of 10th Russian Scientific-Practical Conference of" Polenov reading's", St. Petersburg, Russian Federation*. 2011.