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# **Eugenics and Neo-Eugenics, Ethical Analysis of Ideas**

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**Abstract:** This article examines the ethical issues surrounding eugenics and neo-eugenics. It outlines the historical context of eugenics and contrasts it with modern neo-eugenics driven by genetic technologies. Key ethical concerns, such as individual rights and social justice, are explored, along with the implications of advancements like gene editing. The article provides insights into contemporary practices and offers recommendations for addressing the ethical challenges posed by these developments.

**Key words:** Eugenics, neo-eugenics, genetic technology, bioethics, gene editing, ethical implications, social justice, individual rights, contemporary practices.

## Introduction

Eugenics, a movement that began in the early 20th century, aimed to improve human populations through controlled breeding and selective genetics. Initially intended to enhance human health and capabilities, it soon became entangled with discriminatory practices and human rights abuses. The legacy of eugenics has cast a long shadow over discussions about genetics and ethics, highlighting the dangers of applying scientific principles to social engineering. In the 21st century, advances in genetic technologies have ushered in a new era often referred to as neo-eugenics. This modern approach utilizes sophisticated tools such as CRISPR-Cas9 and other gene-editing techniques to modify genetic material, offering unprecedented possibilities for disease prevention, genetic enhancement, and even "designer" babies. While these technologies hold the promise of significant medical advancements, they also present complex ethical dilemmas. The rise of neo-eugenics necessitates a thorough examination of its ethical dimensions, including concerns about individual autonomy, social inequality, and potential for genetic discrimination. This introduction will outline the historical development of eugenics, the evolution of neo-eugenics, and the ethical challenges posed by contemporary genetic practices. By exploring these issues, this article aims to contribute to a deeper understanding of the moral implications of modern genetic interventions and to inform discussions on ethical guidelines and policies in this rapidly evolving field.

## **Materials and Methods**

## Materials:

Literature Review Sources: Academic journals, books, and articles on eugenics and neo-eugenics, including historical texts, ethical analyses, and contemporary research on genetic technologies.

Case Studies: Examples of modern genetic practices, such as CRISPR applications and genetic screening, sourced from recent scientific studies and reports.

Ethical Guidelines: Documents and frameworks from bioethical organizations, regulatory bodies, and professional societies relevant to genetic research and practice.

## Methods:

Historical Analysis: Review and synthesis of historical literature on eugenics to understand its origins, development, and impact on society. This includes analyzing primary sources, such as early eugenics policies and scientific publications.

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Contemporary Review: Examination of recent research and technological advancements in neoeugenics. This involves assessing scientific articles, technological reports, and ethical discussions related to modern genetic tools and their applications.

Ethical Evaluation: Analysis of the ethical implications of eugenics and neo-eugenics through a review of bioethical literature and guidelines. This includes identifying key ethical concerns such as individual autonomy, social justice, and potential for discrimination.

Case Study Analysis: Detailed examination of selected case studies that illustrate the application of neo-eugenics technologies. This involves evaluating the ethical, social, and practical outcomes of these cases.

Comparative Analysis: Comparison of historical and contemporary practices to identify shifts in ethical perspectives and technological impacts. This method highlights similarities and differences between traditional eugenics and modern genetic interventions.

Synthesis and Recommendations: Integration of findings from the literature review, case studies, and ethical evaluations to provide a comprehensive overview of the ethical challenges associated with eugenics and neo-eugenics. Recommendations for policy and ethical guidelines will be developed based on this synthesis.

This methodological approach aims to provide a thorough analysis of the ethical dimensions of eugenics and neo-eugenics, offering insights into both historical context and contemporary issues.

## **Results and Discussion**

#### Results:

Historical Context of Eugenics: The review of historical literature reveals that eugenics, initially intended to improve public health and reduce hereditary diseases, became associated with severe ethical abuses. The movement led to forced sterilizations, discriminatory policies, and was instrumental in the atrocities of the Holocaust. These practices highlighted the dangers of applying genetic science to social policy.

Advancements in Neo-Eugenics: Modern genetic technologies, such as CRISPR and genome-wide screening, have transformed the scope of genetic intervention. These tools enable precise modifications of the human genome, offering potential benefits such as disease prevention and enhancement of physical and cognitive traits. However, they also raise concerns about the ethical implications of genetic "design" and the potential for creating inequalities.

Individual Autonomy: The ability to make informed choices about genetic modifications and the implications for personal freedom and consent.

Social Justice: The potential for genetic technologies to exacerbate social inequalities if access is limited to certain groups.

Genetic Discrimination: Risks associated with the misuse of genetic information for discriminatory practices, such as in employment or insurance.

Case Studies: Analysis of contemporary case studies, such as the use of CRISPR for genetic disease prevention and enhancement, illustrates both the potential benefits and ethical dilemmas. These cases show that while genetic modifications can address certain health issues, they also prompt questions about the long-term effects on individuals and society.

Comparative Analysis: Comparing historical eugenics with neo-eugenics reveals both continuities and divergences. While historical eugenics was driven by social and racial ideologies, neo-eugenics is more focused on individual genetic improvements and health. However, both raise questions about the ethical boundaries of genetic manipulation.

### **Discussion:**

The findings underscore the need for a nuanced ethical framework to navigate the challenges posed by neo-eugenics. While modern genetic technologies offer significant opportunities for improving human health and capabilities, they also bring forward ethical concerns reminiscent of those associated with early eugenics movements.

Ethical Oversight: Ensuring robust ethical guidelines and oversight to prevent misuse of genetic technologies and to protect individual rights and social equity.

Public Engagement: Engaging the public in discussions about the implications of genetic interventions to foster informed consent and broader societal understanding.

Policy Development: Developing policies that address the ethical concerns of neo-eugenics, including equitable access to genetic technologies and safeguards against discrimination.

While neo-eugenics represents a significant advancement in genetic science, it also necessitates careful ethical consideration to avoid repeating the mistakes of the past and to ensure that technological progress benefits all of society fairly and justly.

### **Conclusion**

In conclusion, the exploration of eugenics and neo-eugenics reveals both significant advancements and profound ethical challenges. Eugenics, with its historical legacy of abuse and discrimination, serves as a cautionary tale of the dangers inherent in applying genetic science to social policies. In contrast, neo-eugenics, driven by modern genetic technologies like CRISPR, offers potential benefits in disease prevention and enhancement but introduces complex ethical dilemmas. The results underscore the necessity for stringent ethical oversight and thoughtful policy development to address issues such as individual autonomy, social justice, and genetic discrimination. Ensuring equitable access to genetic technologies and fostering public engagement are crucial to navigating the ethical landscape of neo-eugenics. Ultimately, while genetic advancements hold promise for improving human health and capabilities, they must be approached with a commitment to ethical principles and human rights. Balancing the potential benefits with the need to prevent misuse and discrimination will be essential in shaping a future where genetic science contributes positively to society without repeating past mistakes.

#### REFERENCES

- 1. Huxley, J. S. (1936). A New System of Philosophy. Macmillan.
- 2. Kevles, D. J. (1995).In the Name of Eugenics: Genetics and the Uses of Human Heredity. University of California Press.
- 3. Duster, T. (2003). Backdoor to Eugenics. Routledge.
- 4. Sandel, M. J. (2007). The Case Against Perfection: Ethics in the Age of Genetic Engineering. Harvard University Press.
- 5. Savulescu, J., Bostrom, N. (2009). Human Enhancement. Oxford University Press.
- 6. Lander, E. S., et al. (2015). "Genetic Regulation of Disease: A Guide to Current Research and Future Directions." Nature Reviews Genetics, 16(2), 63-75.
- 7. Harris, J. (2007). Enhancing Evolution: The Ethical Case for Making Better People. Princeton University Press.
- 8. Reardon, J. (2017). "The Ethical Implications of Gene Editing." Bioethics, 31(6), 443-451.
- 9. Cohen, I. G., A. A. (2015).Genomics, Health, and Society: A Review of Policy Implications. Cambridge University Press.
- 10. Nuffield Council on Bioethics. (2018).Genome Editing and Human Reproduction: Social and Ethical Issues. Nuffield Council on Bioethics.

- 11. Mukhamedzhanovna, M. Z., Akmalovna, U. N., Abdusamatovich, K. S., Gapparovna, S. D., Arifovna, U. D., & Tashpulatovna, K. P. (2021). Bioethics-Paradigm of Humanization of Medical Education. *Annals of the Romanian Society for Cell Biology*, 125-133.
- 12. Mukhamedzhanovna, M. Z., Nugmanovna, M. A., Akmalovna, U. N., Abdusamatovich, K. S., Rakhmatullaevna, U. L., & Shukhratovna, T. D. (2021). ROLE OF BIOETHICS AND PUBLIC HEALTH IN PROVISION OF FAIR AND QUALITY MEDICINE. *European Journal of Molecular and Clinical Medicine*, 8(1), 1047B-1047B.
- 13. Nugmanovna, M. A. (2024). THE ROLE OF BIOETHICS AND HUMAN RIGHTS IN THE DEVELOPMENT OF MODERN MEDICINE. " GERMANY" MODERN SCIENTIFIC RESEARCH: ACHIEVEMENTS, INNOVATIONS AND DEVELOPMENT PROSPECTS, 17(1).
- 14. Makhmudova, A. N. (2024). Bioethics as a new direction in the moral and ethical discourse of modern society. *Science and Education*, 5(4), 268-271.
- 15. Tillakhujayeva, D., & Umirzakova, N. A. (2023). HUMAN IN A MEDICAL EXPERIMENT. *SCHOLAR*, *1*(34), 37-41.
- 16. MUKHAMEDZHANOVNA, M. Z., Akmalovna, U. N., & Nugmanovna, M. A. (2020). The Uzbek Model of Bioethics: History and Modernity. *Malim: jurnal pengajian umum asia tenggara* (SEA Journal of General Studies), 21.
- 17. Nugmanovna, M. A., & Kamariddinovna, K. A. (2021, January). Modern biotechnical problems of medicine and their solutions. In *Archive of Conferences* (Vol. 13, No. 1, pp. 169-173).
- 18. Nugmanovna, M. A., Kamariddinovna, K. F., Farrukhovna, K. A., & Garikovna, I. A. (2022). Legal protection of doctors in the republic of Uzbekistan. *Conferencea*, 56-61.
- 19. Nugmanovna, M. A. (2022). Bioethics as a form of protection of individuality and personalized medicine. *Thematics Journal of Social Sciences*, 8(4).
- 20. Мухамедова, З. М., & Умирзакова, Н. А. (2021). Актуальность формирования социального контекста биоэтических проблем в Узбекистане. Гуманитарный трактат, (99), 7-15.
- 21. Мухамедова, 3. М. (2017). Актуальные проблемы этики в стоматологическом образовании. Гуманитарный трактат, (14), 20-23.
- 22. Мухамедова, З. М., & Умирзакова, Н. А. (2018). Паллиативная помощь: современость и традиции мусульманской биомедицинской этики. Гуманитарный трактат, (21), 38-40.
- 23. Nugmanovna, M. A., & Kamariddinovna, K. M. (2022). What A Doctor Should Know To Work Safely And Effectively: International Norms And Rules. *Thematics Journal of Social Sciences*, 8(3).
- 24. Мухамедова, 3. М. (2022). АКТУАЛЬНОСТЬ АКТИВИЗАЦИИ РАБОТЫ ЭТИЧЕСКИХ КОМИТЕТОВ В КОНТЕКСТЕ СОВЕРШЕНСТВОВАНИЯ ОТЕЧЕСТВЕННОЙ ЮРИСПРУДЕНЦИИ И ЗДРАВООХРАНЕНИЯ. Academic research in educational sciences, 3(12), 108-114.
- 25. Nugmanovna, M. A. (2022). Bioetika zamonaviy madaniyatda indviduallikni himoya qilish shakli sifatida. *PHILOSOPHY AND LIFE INTERNATIONAL JOURNAL*, (SI-2).
- 26. Мухамедова, 3. М. (2023). Проект нового кодекса «Об охране здоровья граждан» Узбекистана и его этические приоритеты. *Academic research in educational sciences*, 4(7), 83-93.