



DEVELOPING CREATIVE THINKING SKILLS IN STUDENTS THROUGH TEACHING HISTOLOGY

Saidov Shoxrullo Sharafullayevich

Lecturer, Department of Histology, Cytology and Embryology
Tashkent Medical Academy, Termez Branch

Email: shoxrullo Saidov@gmail.com

Turdimuratov Baxtiyor Kurbonovich

Teacher, Department of Social and Humanitarian Sciences
Tashkent Medical Academy, Termez Branch

Email: baxtiyor.turdimuratov6691@gmail.com

Xoldorova Oysha Sherali kizi

1st year medical student
Tashkent Medical Academy, Termez Branch

Email: oyshaxoldorova@gmail.com

Anvarov Sanjarbek Elmurod ugli

1st year medical student
Tashkent Medical Academy, Termez Branch

Email: sanjarbekanvarov@gmail.com

Abstract: This article analyzes the development of creative thinking skills in students during the teaching of histology. The possibilities of fostering creativity through modern educational technologies, interactive methods, and innovative approaches are highlighted. The results of the study show that a creative approach in teaching histology is an important factor in improving students' knowledge and practical skills.

Keywords: histology, creative thinking, innovative education, interactive methods, pedagogy, medical education

Introduction

In modern education, it is essential not only to provide students with knowledge but also to develop their independent thinking, problem-solving abilities, and creative skills. This is especially important in medical education, where subjects such as histology require deep understanding and strong visualization skills due to their complex microscopic structures.

Traditional teaching methods often focus mainly on reproductive knowledge, which limits students' ability to think creatively. Therefore, the integration of creative approaches into histology teaching has become a relevant and important issue.

The aim of this article is to scientifically analyze methods for developing creative thinking skills in students through the teaching of histology.

Methods

The study was conducted using the following methods:

- **Pedagogical observation** – to examine student engagement during lessons
- **Experimental method** – to evaluate the effectiveness of creative teaching approaches
- **Survey** – to analyze students' opinions
- **Comparative analysis** – to compare traditional and innovative teaching methods
- **Statistical analysis** – to process and interpret the obtained results

Results



Methods for Developing Creative Thinking



The study identified the following methods as effective in developing creative thinking in histology teaching:

- **Problem-based learning (PBL)**
- **Brainstorming techniques**
- **Cluster and mind-mapping methods**
- **Case-study analysis**
- **Visual technologies (3D modeling, microscopic imaging)**

These methods enhance students' independent thinking and their ability to generate new ideas.

Impact of Creative Approaches on Learning Effectiveness



The experimental results showed the following positive changes:

- Increased student interest in lessons
- Improved independent thinking skills
- Enhanced practical competencies
- Easier understanding of complex topics

The findings indicate that learning outcomes in groups taught with creative methods were higher compared to those using traditional approaches.

Factors Influencing the Development of Creativity in Histology





The following factors play an important role in developing creative thinking:

- Use of modern technologies
- Creation of an interactive learning environment
- Encouraging independent research
- Innovative teaching approaches by instructors

Discussion

The results demonstrate that creative approaches significantly improve the learning process in histology. Interactive methods increase student engagement and encourage independent thinking.

Moreover, creative thinking skills are important not only for mastering histology but also for future professional activities. In the medical field, the ability to solve complex problems efficiently requires creative thinking.

However, successful implementation of these approaches depends on teacher qualifications, availability of technical resources, and methodological support.

Conclusion

Developing creative thinking skills in students through the teaching of histology is one of the key priorities of modern education. The use of innovative methods and technologies significantly enhances students' knowledge, independent thinking, and practical skills.

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