

«We were preparing to the UNT during the whole year»: survey results for medical university students

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Problem

- ⌘ Rapid reform of the secondary education in Kazakhstan influenced the quality of medical students
- ⌘ Chemistry, physics and biology remained as core subjects for medical institutes
- ⌘ The UNT became a major criteria for selection of medical students

Problem

⌘ lack of interest among students of the 1-3 years of education to medical subjects, including pathology

Goal of the study

to assess the general level of education of 1st year medical students (former school graduates)

Methods

- Survey: 40 students of the 1st year with high UNT results, Faculty of General Medicine
- 30 students in this group 'dreamt of becoming a doctor'
- Age: 17 to 22
- 23 females and 17 males
- Students from 7 different regions of Kazakhstan

Survey (27 questions)

⌘ Attention was paid to school subjects, including:

⌘ Russian language

⌘ Biology

⌘ Chemistry

⌘ Physics

Question on biology

& Cell functions

& Mendel laws,

& difference between RNA and DNA,

Questions on physics

- ⌘ Communicating vessels principle
- ⌘ Definition of turbulent and laminar flow
- ⌘ Definition of oncotic and hydrostatic pressure

Questions on chemistry

- ⌘ Definition of pH;
- ⌘ Difference between organic and inorganic compounds;
- ⌘ Examples of oxidation-reduction reactions

Questions on Russian language

- ⌘ To provide adjectives to words 'encrusted,' 'nutmeg,' 'slate'
- ⌘ Explain the meaning of these words

Results

- ⌘ 'No answer' was the most common answer of the respondents,
- ⌘ Two students provided examples of redux reactions,
- ⌘ One student discussed communicating vessels principle, provided definition of turbulent and laminar flow and oncotic pressure

Results

- ⌘ 32 students knew the difference between DNA and RNA,
- ⌘ 14 students provided a correct answer to questions about pH,
- ⌘ 12 students knew cell functions.

Results

- ⌘ 15 students were able to explain the meaning of 'encrusted,'
- ⌘ 10 students explained the meaning of 'nutmeg,'
- ⌘ None of the students explained the meaning of 'slate'

Conclusion

- ‡ Students of the 1st year do not have even basic knowledge,
- ‡ UNT in its current form does not allow students to receive any knowledge at school,
- ‡ High school graduates who come to medical institutes could be considered as a threat to the system of public health.