

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ
КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР

**МАТЕРІАЛИ XI ВСЕУКРАЇНСЬКОЇ
НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ
СТУДЕНТІВ АСПІРАНТІВ ТА ВИКЛАДАЧІВ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО
ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ**

“TO MAKE THE WORLD SMARTER AND SAFER”

(Суми, 23 березня 2017 року)

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY STATE UNIVERSITY
FOREIGN LANGUAGES DEPARTMENT
LANGUAGE CENTRE

**MATERIALS OF THE ELEVENTH
ALL UKRAINIAN SCIENTIFIC PRACTICAL
STUDENTS', POSTGRADUATES' AND INSTRUCTORS'
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FOREIGN LANGUAGES DEPARTMENT**

“TO MAKE THE WORLD SMARTER AND SAFER”

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published studies. This medical approach is emerging as a strategy with tremendous potential.

INVENTIONS IN MEDICINE THAT ARE MAKING OUR LIFE LESS TROUBLESOME

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Today humanity is fighting with many diseases caused by infections, environmental pollution, hereditary disorders and others. A lot of specialists are trying to find new treatments for diseases and prevent their occurrence. They publish information about these inventions in the Internet, magazines and television. In particular: creation of artificial organs (heart, kidney, liver, pancreas and many others), production of prostheses and implants, development of new vaccines and medicines, tumor removal, regeneration of tissues and organs of the body. I am extremely interested in all the inventions in the field of traumatology. Because I think that every person has got traumas in his life (bruise, fracture, hematoma etc.) Treating of fractures is the biggest problem in traumatology as the repair can take a long time. Moreover, the patient feels pain and discomfort. Therefore, scientists have developed new treatments for fractures. A number of them can be described here:

- Scientists invented an analog of gypsum. This can be a thermoplastic or polymer bandage. The material becomes soft at a temperature of 90° C. When applied to the damaged part of the body, it acquires the desired shape and hardens in 30-40 minutes. Advantages: much lightweight than gypsum, it does not cause allergies, looks neat, material is breathable (this allows you to bathe in it).

- Ukrainian inventors have created a way to rapid healing of fractures with a special gel. This gel is based on the patient's own blood. It has been proved that the gel helps bones grow together twice as fast.

- Concerning complex fractures: conservative methods are useless and are replaced by minimally invasive operations. The

method is that doctors make punctures and through them deliver the technique to a fracture. In this case the patient receives fewer injuries. The process is monitored by the doctor - by translating the image onto the monitor. When using this method, complex fractures heal at times faster.

- British scientists have invented a special frame. The bones grow faster when doctors use this frame. The peculiarity of frame: it has pores (for germination vessels) and the body does not reject the material. This method is used for treatment of complicated fractures. Bones become recovered within 4-8 weeks.

- In 2013, the material «Arxis» was invented. This is a liquid substance, which consists of nucleic acids. The material hardens at a temperature of the human body. After that, it forms a substance with a multitude of pores and becomes very similar to bone tissue.

- Scientists from Israel have developed a special membrane to speed up the treatment of fractures. This membrane is implanted into the patient. Its feature is the ability to resorption with the time.

The problem of injuries, especially fractures, is very relevant. Because the recovery of the patient takes months and this process is painful. This is due to the ever-growing car accidents. Also causes are accidents at factories, aircraft crashes and others. So it is not surprising that a huge number of scientists around the world are inventing all new methods of treatment in the field of traumatology.

In my opinion, this progress in traumatology has a positive impact for all the people. In addition, it would be very good if medicine combines the accessibility and effectiveness. Because the main problem nowadays is that more and more people can't afford such treatment. But I hope, that in the nearest future medicine will make big steps forward.