

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

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

**“WITH FOREIGN LANGUAGES TO MUTUAL
UNDERSTANDING, BETTER TECHNOLOGIES AND
ECOLOGICALLY SAFER ENVIRONMENT”**

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INNOVATIONS IN MEDICINE AND MODERN LIFE

K. Teslenko – Sumy State University, group PR – 51

N.V. Maliovana – E L Adviser

Nowadays medicine is not static and introduces innovations to improve our modern life. There are new diseases in addition to the old and even the best doctors are not able to understand and establish the correct diagnosis. IT technologies help doctors to diagnose any disease in detail, store and effectively use data at all stages of the treatment process. Innovations save thousands of lives every day and raise medicine every time on one level higher.

Special attention must be given to the main lines of modern technologies in medicine. Medical information system provides the process of collection storage, processing of information. Medical diagnostics conducts sophisticated modern studies such as computed tomography, studies using isotopes. Man is not able to accept and processes lots of information received in these studies. Expert systems help in solving problems of diagnosis, prognosis of diseases and complications and planning treatment processes.

People create a large number of robots that perform extremely complex manipulations. Surgical robot “Da Vinci” allows through small holes in the skin to perform the most difficult operations on internal organs. One of the best medical sensations is “Robotic Glove”. This glove is equipped with sensors, which signals the organs that are needed the immediate attention. It collects and transmits all data on the computer. Medical robot “AMIGO” specializes in operations for the heart artery treatment. It helps to introduce a catheter through an artery to the heart damage areas.

There are many scientific researches in medicine: nanotechnology, biomedical research combined with mathematical and computer modeling, multifactor energy impacts in diagnostic and therapeutic purposes in organs, systems, tissues etc. It is able to produce viable cartilage implants to those patients who need them.

Medicine is considered to be one of the most important necessity to all of us. "The 21st century art of healing" is impossible without modern IT technologies and innovations.