

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

**МАТЕРІАЛИ
VIII МІЖВУЗІВСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ
КОНФЕРЕНЦІЇ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ
КАФЕДРИ ІНОЗЕМНИХ МОВ**

“TO LIVE IN A SAFER WORLD”

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The eighth scientific practical student`s, postgraduate`s and teacher`s
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MODERN MEDICAL TECHNOLOGY

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Scientific and technological advances are rapidly changing conditions of human existence. There is a need for the creation and implementation of new medical technologies that meet the needs of the time. Modern information technology is increasingly used in the health care industry, which is very convenient, but sometimes it is necessary. This medicine, including alternative, becomes today a completely new feature. Many medical studies simply can not do without a computer and special software to it. This process is accompanied by significant changes in medical theory and practice related to making adjustments to the training of health professionals. Over the past 20 years the use of computers in medicine has increased enormously. Practical medicine is becoming more and more automated.

The priorities of modern medicine is microsurgery diseases of the brain and nerve surgery. Injury and brain tumors can cause severe disruption of individual organs and the whole organism. In order to eliminate the tumor developed aiming brain surgery: a place that must be destroyed without opening the skull, a thin needle is introduced through which the tumor affected with high frequency ultrasound, radioactive or chemical.

Sophisticated research in medicine is inconceivable without computer technology. These studies include computed tomography, magnetic resonance imaging, ultrasonography, studies using isotopes. The amount of information that is obtained in these studies, a person without a computer is not able to accept and process. Tomography - a method of examining the state of the human body in which the derived image of individual thin layers (sections) of the human body, based on the full three-dimensional image, is constructed. Tomography is a major example of the introduction of new information technologies in medicine. In recent years new computer programs that allow for diagnostic images in three-dimensional graphics and animation mode.