Medical advances of the 21st century



Artificial heart

In July 2001, a group of surgeons from Louisville, Kentucky managed to transplant a new generation artificial heart into a patient. The device, known as AbioCor, was first transplanted to a person, who was suffering from heart failure.

Artificial heart – |a:ti'fiʃəl| искусственное сердце Heart failure – сердечная недостаточность



Transplant – пересаживать (органы)
Transplantation (n) - пересадка

Camera capsule

With this pill doctors can diagnose cancer at the earliest stages. The device was created for producing high-quality color images in confined spaces. Camera capsule can detect signs of esophageal cancer.

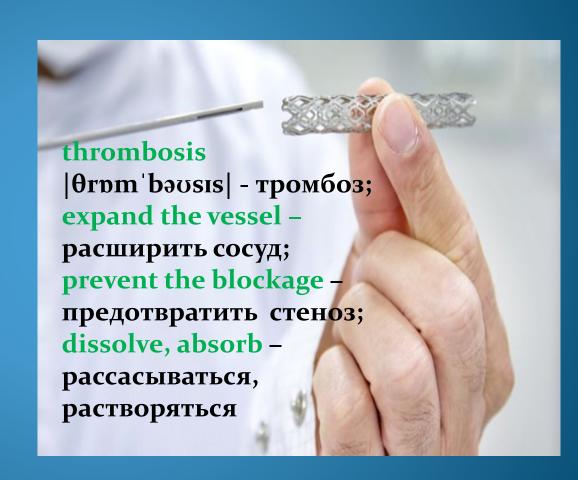
Esophageal cancer — рак пищевода [iːˈsɒfəgəl]
Camera capsule — видеокапсула [ˈkæpsjuːl]



Bioresorbable stents

Scientists have developed the world's first bioabsorbable stents for treating thrombosis. A stent expands the blood vessels to prevent a blockage. Stents are manufactured from a material that may dissolve or be absorbed in the body.

bioabsorbable stents - биорассасываемые стенты



Bionic arm iLIMB

Created by David Gow in 2007, the iLIMB bionic arm is the world's first artificial limb with five individually mechanized fingers. **Bionic arms** work by picking up signals from a user's muscles.

* Prosthetics replacement of lost or
irreversibly damaged body
parts with artificial
substitutes.



Bionic arm – бионическая рука
Artificial limb – искусственная конечность
Mechanized fingers – механизированные пальцы
Prosthetics – протезирование | prps | θetiks |

Biomechanical devices and prostheses

In 2013 scientists invented the first prototypes of "smart" prostheses with feedback (emulation of tactile sensations), which enabled a prosthesis to perceive and transmit the feeling of pain or discomfort.

Prosthesis – протезы
|prps'0i:sis|
Perceive, transmit –
ощущать, передавать
Tactile sensations –
осязательные, тактильные
ощущения



Coronavirus vaccine

Russian and American scientists have just developed anti-coronavirus vaccines. The vaccines are still undergoing large-scale clinical trials, which show that they are all likely to be effective. The US is about to start vaccine distribution and shipping.

The vaccine must be stored at a temperature of around -7oC. It will be transported in a special box packed in dry ice and installed with GPS trackers.



Vaccine – вакцина; Undergo clinical trials – проходить клинические испытания; Distribution and shipping – распространение и поставка; Store - хранить