

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 –

[ɑ: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
[i: 'sɒfəgəl]
Camera capsule –
видеокапсула
| 'kæpsju:l|



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



thrombosis

|θrɒm'bəʊsɪs| - тромбоз;

expand the vessel –

расширить сосуд;

prevent the blockage –

предотвратить стеноз;

dissolve, absorb –

рассасываться,

растворяться

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
|prɒs'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

|prɒs'θiːsɪs|

Perceive, transmit –

ощущать, передавать

Tactile sensations –

осознательные, 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 -70°C . 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