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## **Level 5**

### **Nano-chip may heal organs with one touch**

**10th August, 2017**

<http://www.breakingnewsenglish.com/1708/170810-body-repair-5.html>

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**Please try Levels 4 and 6. They are (a little) harder.**

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# THE READING

From <http://www.breakingnewsenglish.com/1708/170810-body-repair-5.html>

There is another example of medical science fiction coming true. Scientists have revealed a "breakthrough" that successfully repaired cells and organs in mice and pigs. Researchers in the USA developed a device a centimeter wide that is full of nanochips. The device is a pad that is put on the skin. It starts the process of repairing damaged organs and healing wounds. The nanochips "reprogramme" damaged cells to restore them to a functioning state. A researcher said: "With this technology, we can convert skin cells into elements of any organ with just one touch."

The technology is called tissue nano-transfection (TNT). It is non-invasive, which means doctors do not have to cut the body. The pad of nanochips is put over a damaged area of the body. A small electric current then injects DNA into the skin in less than a second. This changes the cells into building blocks that regenerate nearby damaged tissue, such as skin, arteries, or organs like the liver and heart. It could replace the need for reconstructive surgery. It could also revitalize aging organs. It could even help repair the brain. Testing will begin on humans next year.

Sources: <http://www.telegraph.co.uk/science/2017/08/07/penny-sized-nanochip-pad-regrow-organs-heal-injuries/>  
<https://www.news-medical.net/news/20170807/Nanotechnology-wonders-Organ-healing-with-a-single-touch!.aspx>  
<http://www.medicalnewstoday.com/articles/318841.php>

# PHRASE MATCHING

From <http://www.breakingnewsenglish.com/1708/170810-body-repair-5.html>

## PARAGRAPH ONE:

- |                                     |                      |
|-------------------------------------|----------------------|
| 1. science                          | a. organs            |
| 2. repaired cells and organs in     | b. device            |
| 3. developed a                      | c. of any organ      |
| 4. a pad that is put                | d. fiction           |
| 5. the process of repairing damaged | e. functioning state |
| 6. healing                          | f. mice and pigs     |
| 7. restore them to a                | g. on the skin       |
| 8. convert skin cells into elements | h. wounds            |

## PARAGRAPH TWO:

- |  |                      |
|--|----------------------|
| 1. The technology is called tissue       | a. blocks            |
| 2. It is non-                            | b. on humans         |
| 3. doctors do not have                   | c. organs            |
| 4. A small electric current then injects | d. to cut the body   |
| 5. building                              | e. nano-transfection |
| 6. replace the need for reconstructive   | f. DNA into the skin |
| 7. It could also revitalize aging        | g. invasive          |
| 8. Testing will begin                    | h. surgery           |

# LISTEN AND FILL IN THE GAPS

From <http://www.breakingnewsenglish.com/1708/170810-body-repair-5.html>

There (1) \_\_\_\_\_ of medical science fiction coming true. Scientists (2) \_\_\_\_\_ "breakthrough" that successfully repaired cells and (3) \_\_\_\_\_ and pigs. Researchers in the USA developed a device a centimeter wide (4) \_\_\_\_\_ nanochips. The device is a pad that is put on the skin. It starts the process of repairing (5) \_\_\_\_\_ and healing wounds. The nanochips "reprogramme" damaged cells to restore them to a functioning state. A researcher said: "With this technology, we can convert skin cells into (6) \_\_\_\_\_ with just one touch."

The (7) \_\_\_\_\_ tissue nano-transfection (TNT). It is non-invasive, which means doctors do not have to cut the body. The pad of nanochips (8) \_\_\_\_\_ damaged area of the body. A small electric current then injects (9) \_\_\_\_\_ in less than a second. This changes (10) \_\_\_\_\_ building blocks that regenerate nearby damaged tissue, such as skin, arteries, or organs like the liver and heart. It could replace the need (11) \_\_\_\_\_ surgery. It could also revitalize aging organs. It could even help repair the brain. Testing will (12) \_\_\_\_\_ next year.

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <http://www.breakingnewsenglish.com/1708/170810-body-repair-5.html>

There is another example of medical science fiction coming true. Scientists have revealed a "breakthrough" that successfully repaired cells and organs in mice and pigs. Researchers in the USA developed a device a centimeter wide that is full of nanochips. The device is a pad that is put on the skin. It starts the process of repairing damaged organs and healing wounds. The nanochips "reprogramme" damaged cells to restore them to a functioning state. A researcher said: "With this technology, we can convert skin cells into elements of any organ with just one touch." The technology is called tissue nano-transfection (TNT). It is non-invasive, which means doctors do not have to cut the body. The pad of nanochips is put over a damaged area of the body. A small electric current then injects DNA into the skin in less than a second. This changes the cells into building blocks that regenerate nearby damaged tissue, such as skin, arteries, or organs like the liver and heart. It could replace the need for reconstructive surgery. It could also revitalize aging organs. It could even help repair the brain. Testing will begin on humans next year.

# REPAIRING THE BODY SURVEY

From <http://www.breakingnewsenglish.com/1708/170810-body-repair-4.html>

Write five GOOD questions about repairing the body in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

## WRITE QUESTIONS & ASK YOUR PARTNER(S)

Student A: Do not show these to your speaking partner(s).

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

e) \_\_\_\_\_

f) \_\_\_\_\_

*Nano-chip may heal organs with one touch – 10th August, 2017*  
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## WRITE QUESTIONS & ASK YOUR PARTNER(S)

Student B: Do not show these to your speaking partner(s).

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

e) \_\_\_\_\_

f) \_\_\_\_\_

