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**Level 2 – 4th January, 2020**

## **Breast cancer tests better with Google Health AI**

**FREE online quizzes, mp3 listening and more for this lesson here:**

<https://breakingnewsenglish.com/2001/200104-breast-cancer-2.html>

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**Please try Levels 0, 1 and 3. They are (a little) harder.**

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# THE READING

From <https://breakingnewsenglish.com/2001/200104-breast-cancer-2.html>

Doctors have a new tool to diagnose breast cancer. It is called Google Health. The tool uses Artificial Intelligence (AI) to find anything abnormal in breast tissue. Researchers trained an AI program to find abnormalities. It read lots of results from X-rays over the past few years. Doctors currently use X-rays to detect breast cancer. Google Health will help doctors to read X-rays more accurately. The current system is that two doctors agree on whether or not an X-ray shows cancer. If they cannot agree, they ask a third doctor. Google Health will do this more quickly.

Researchers from Google Health worked with experts from a London university to design the program. They input X-rays from more than 91,000 women in the UK and USA into its software. This then produced an algorithm. In hospital tests, the algorithm did better at reading X-rays than six doctors. Google Health said: "Our team is really proud of these research findings, which suggest that we are on our way to developing a tool that can help doctors spot breast cancer with greater accuracy." The World Cancer Research Fund said two million new cases of breast cancer were reported in 2019.

Sources: <https://www.bbc.com/news/health-50857759>  
<https://www.nature.com/articles/s41586-019-1799-6>  
<https://time.com/5754183/google-ai-mammograms-breast-cancer/>

# PHRASE MATCHING

From <https://breakingnewsenglish.com/2001/200104-breast-cancer-2.html>

## PARAGRAPH ONE:

- |                               |                           |
|-------------------------------|---------------------------|
| 1. a new tool to              | a. an AI program          |
| 2. find anything              | b. shows cancer           |
| 3. Researchers trained        | c. more quickly           |
| 4. over the past              | d. X-rays                 |
| 5. help doctors to read       | e. agree                  |
| 6. whether or not an X-ray    | f. diagnose breast cancer |
| 7. If they cannot             | g. few years              |
| 8. Google Health will do this | h. abnormal               |

## PARAGRAPH TWO:

- |                             |                       |
|-----------------------------|-----------------------|
| 1. experts from a           | a. spot breast cancer |
| 2. This then produced an    | b. in 2019            |
| 3. the algorithm did better | c. London university  |
| 4. Our team is really       | d. breast cancer      |
| 5. we are on our way to     | e. proud              |
| 6. help doctors             | f. at reading X-rays  |
| 7. two million new cases of | g. developing a tool  |
| 8. reported                 | h. algorithm          |

# LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/2001/200104-breast-cancer-2.html>

Doctors have a (1) \_\_\_\_\_ diagnose breast cancer. It is called Google Health. The tool uses Artificial Intelligence (AI) to find (2) \_\_\_\_\_ breast tissue. Researchers trained an AI program to find abnormalities. It read (3) \_\_\_\_\_ from X-rays over the past few years. Doctors currently use X-rays to detect breast cancer. Google Health (4) \_\_\_\_\_ to read X-rays more accurately. The current system is that two doctors (5) \_\_\_\_\_ or not an X-ray shows cancer. If they cannot agree, they ask (6) \_\_\_\_\_. Google Health will do this more quickly.

Researchers from Google Health worked (7) \_\_\_\_\_ a London university to design the program. They input X-rays from more than 91,000 women in the UK and USA (8) \_\_\_\_\_. This then produced an algorithm. In hospital tests, the algorithm did (9) \_\_\_\_\_ X-rays than six doctors. Google Health said: "Our team is really proud of these research findings, which suggest that we are (10) \_\_\_\_\_ to developing a tool that can help doctors spot breast cancer (11) \_\_\_\_\_." The World Cancer Research Fund said two (12) \_\_\_\_\_ of breast cancer were reported in 2019.

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2001/200104-breast-cancer-2.html>

Doctors have a new tool to diagnose breast cancer. It is called Google Health. The tool uses Artificial Intelligence (AI) to find anything abnormal in breast tissue. Researchers trained an AI program to find abnormalities. It reads a lot of results from X-rays over the past few years. Doctors currently use X-rays to detect breast cancer. Google Health will help doctors read X-rays more accurately. The current system is that two doctors agree on whether or not an X-ray shows cancer. If they cannot agree, they ask a third doctor. Google Health will do this more quickly. Researchers from Google Health worked with experts from a London university to design the program. They input X-rays from more than 91,000 women in the UK and USA into its software. This then produced an algorithm. In hospital tests, the algorithm did better at reading X-rays than six doctors. Google Health said: "Our team is really proud of these research findings, which suggest that we are on our way to developing a tool that can help doctors spot breast cancer with greater accuracy." The World Cancer Research Fund said that 10 million new cases of breast cancer were reported in 2019.

# BREAST CANCER SURVEY

From <https://breakingnewsenglish.com/2001/200104-breast-cancer-4.html>

Write five GOOD questions about breast cancer 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) \_\_\_\_\_

*Breast cancer tests better with Google Health AI – 4th January, 2020*  
More free lessons at [breakingnewsenglish.com](http://breakingnewsenglish.com)

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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) \_\_\_\_\_

# WRITING

From <https://breakingnewsenglish.com/2001/200104-breast-cancer-2.html>

Write about **breast cancer** for 10 minutes. Read and talk about your partner's paper.

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