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**Level 3 – 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.html>

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**Please try Levels 0, 1 and 2 (they are easier).**

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# THE ARTICLE

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

Doctors have a new tool to use when diagnosing breast cancer. It is called Google Health, and of course comes from Google. The tool uses Artificial Intelligence (AI) to recognise anything abnormal in breast tissue. Researchers trained the AI program to detect abnormalities. It read a huge number of results from X-rays over the past few years. X-rays are currently what doctors use to detect breast cancer. The Google Health program will help doctors in reading these 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 make this diagnosis quicker.

Researchers from Google Health worked with experts from Imperial College London to design the AI program. They trained the program by inputting X-rays from more than 76,000 women in the U.K. and more than 15,000 in the USA into its software. The software then produced an algorithm. In hospital tests, the algorithm did better at reading X-rays than six doctors. Google Health spokesperson Dominic King 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 over 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/>

# WARM-UPS

**1. BREAST CANCER:** Students walk around the class and talk to other students about breast cancer. Change partners often and share your findings.

**2. CHAT:** In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

doctors / tool / breast cancer / cancer / X-rays / Artificial Intelligence / health / agree  
researchers / experts / program / software / hospital tests / proud / accuracy / cases

Have a chat about the topics you liked. Change topics and partners frequently.

**3. A.I :** Students A **strongly** believe Artificial Intelligence will replace doctors one day; Students B **strongly** believe that's impossible. Change partners again and talk about your conversations.

**4. HEALTH:** What function do these body organs have? What can we do to look after them? Complete this table with your partner(s). Change partners often and share what you wrote.

	Function	Looking After It / Them
Heart		
Brain		
Kidneys		
Lungs		
Live		
Stomach		

**5. X-RAY:** Spend one minute writing down all of the different words you associate with the word "X-ray". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

**6. TOOLS:** Rank these with your partner. Put the best at the top. Change partners often and share your rankings.

- X-ray
- Stethoscope
- MRI scanner
- Blood pressure checker
- First-Aid Kit
- Syringe
- Thermometer
- Reflex hammer

# VOCABULARY MATCHING

## Paragraph 1

- |               |   |
|---------------|---|
| 1. tool       | a. Finding an illness or other problem by examining the body.                             |
| 2. diagnosing | b. Find or discover that something is there.  |
| 3. recognise  | c. Moving from what is normal or usual, often in a way that is not wanted or is worrying. |
| 4. abnormal   | d. Understand who or what something is.   |
| 5. detect     | e. Something held in the hand, used to carry out a particular function.                   |
| 6. accurately | f. At the present time.   |
| 7. currently  | g. In a way that is correct in all details; exactly.                                      |

## Paragraph 2

- |               |  |
|---------------|--|
| 8. expert     | h. See or find someone or something that is difficult to detect.   |
| 9. inputting  | i. A person who has a lot of knowledge of or skill in a particular area.   |
| 10. algorithm | j. Put forward for people to think about.  |
| 11. proud     | k. An example of a particular thing happening.   |
| 12. suggest   | l. A process or set of rules followed in calculations or other problem-solving operations, especially by a computer. |
| 13. spot      | m. Feeling very happy because of your (or someone else's) achievements, qualities, or possessions.                   |
| 14. case      | n. Feeding information into a computer or computer program.  |

# BEFORE READING / LISTENING

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

**1. TRUE / FALSE:** Read the headline. Guess if a-h below are true (T) or false (F).

- a. The Google Health tool isn't actually from Google. **T / F**
- b. Researchers trained the Google Health tool using many X-rays. **T / F**
- c. People can use Google Health themselves to check their health. **T / F**
- d. Google Health will mean doctors can make a diagnosis more quickly. **T / F**
- e. More than 90,000 X-rays were used in developing Google health. **T / F**
- f. A Google health algorithm was less accurate than six doctors. **T / F**
- g. A spokesman said Google Health could help spot spots. **T / F**
- h. There were over three million new cases of breast cancer last year. **T / F**

**2. SYNONYM MATCH:** (The words in **bold** are from the news article.)

- |                     |                   |
|---------------------|-------------------|
| 1. <b>tool</b>      | a. instances      |
| 2. <b>abnormal</b>  | b. conclusion     |
| 3. <b>detect</b>    | c. specialists    |
| 4. <b>currently</b> | d. unusual        |
| 5. <b>diagnosis</b> | e. representative |
| 6. <b>experts</b>   | f. device         |
| 7. <b>spokesman</b> | g. correctness    |
| 8. <b>proud</b>     | h. find           |
| 9. <b>accuracy</b>  | i. pleased        |
| 10. <b>cases</b>    | j. presently      |

**3. PHRASE MATCH:** (Sometimes more than one choice is possible.)

- |  |                            |
|--|----------------------------|
| 1. a new tool to use when diagnosing     | a. they ask a third doctor |
| 2. recognise anything abnormal           | b. the past few years      |
| 3. results from X-rays over              | c. an algorithm            |
| 4. reading these X-rays more             | d. breast cancer           |
| 5. If they cannot agree,                 | e. to developing a tool    |
| 6. Researchers from Google Health worked | f. cases of breast cancer  |
| 7. The software then produced            | g. with experts            |
| 8. Our team                              | h. in breast tissue        |
| 9. we are on our way                     | i. accurately              |
| 10. over two million new                 | j. is really proud         |

# GAP FILL

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

Doctors have a new tool to use when diagnosing breast cancer. It is called Google Health, and of course (1) \_\_\_\_\_ from Google. The tool uses Artificial Intelligence (AI) to recognise (2) \_\_\_\_\_ abnormal in breast (3) \_\_\_\_\_. Researchers trained the AI program to detect abnormalities. It read a (4) \_\_\_\_\_ number of results from X-rays over the past few years. X-rays are currently what doctors use to (5) \_\_\_\_\_ breast cancer. The Google Health program will help doctors in reading these X-rays more (6) \_\_\_\_\_. The current system is that two doctors agree on (7) \_\_\_\_\_ or not an X-ray shows cancer. If they cannot agree, they ask a third doctor. Google Health will make this diagnosis (8) \_\_\_\_\_.

*tissue*  
*detect*  
*quicker*  
*comes*  
*whether*  
*huge*  
*anything*  
*accurately*

Researchers from Google Health worked with (9) \_\_\_\_\_ from Imperial College London to design the AI program. They (10) \_\_\_\_\_ the program by (11) \_\_\_\_\_ X-rays from more than 76,000 women in the U.K. and more than 15,000 in the USA into its software. The software then produced an (12) \_\_\_\_\_. In hospital tests, the algorithm did better at reading X-rays than six doctors. Google Health (13) \_\_\_\_\_ Dominic King said: "Our team is really (14) \_\_\_\_\_ of these research findings, which suggest that we are on our way to developing a tool that can help doctors (15) \_\_\_\_\_ breast cancer with greater accuracy." The World Cancer Research Fund said over two million new (16) \_\_\_\_\_ of breast cancer were reported in 2019.

*inputting*  
*spokesperson*  
*spot*  
*experts*  
*algorithm*  
*cases*  
*trained*  
*proud*

# LISTENING – Guess the answers. Listen to check.

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

- 1) It is called Google Health, and of course \_\_\_\_\_ Google
  - a. comes from
  - b. goes from
  - c. gives from
  - d. takes from
- 2) Researchers trained the AI program to \_\_\_\_\_
  - a. defect abnormalities
  - b. detest abnormalities
  - c. deject abnormalities
  - d. detect abnormalities
- 3) The Google Health program will help doctors in reading these X-rays \_\_\_\_\_
  - a. more accurate tea
  - b. more rack curate
  - c. more accurately
  - d. more rack you at tea
- 4) The current system is that two doctors agree on whether or not an X-ray \_\_\_\_\_
  - a. show cancer
  - b. shows cancer
  - c. shown cancer
  - d. shores cancer
- 5) cannot agree, they ask a third doctor. Google Health will make this \_\_\_\_\_
  - a. diagonal quicker
  - b. digresses quicker
  - c. diagnoses quicker
  - d. diagnosis quicker
- 6) experts from Imperial College London to design \_\_\_\_\_
  - a. the yay eye program
  - b. the A eye program
  - c. the aye aye program
  - d. the AI program
- 7) the U.K. and more than 15,000 in the USA into \_\_\_\_\_
  - a. its software
  - b. its softly ware
  - c. its soft where
  - d. its soft wore
- 8) Dominic King said: "Our team is really proud of these \_\_\_\_\_"
  - a. researched findings
  - b. research funding
  - c. research findings
  - d. researches findings
- 9) we are on our way to developing a tool that can help doctors \_\_\_\_\_
  - a. spot breast cancer
  - b. spat breast cancer
  - c. spit breast cancer
  - d. sport breast cancer
- 10) The World Cancer Research Fund said over two \_\_\_\_\_
  - a. millions new cases
  - b. million new cases
  - c. minion new cases
  - d. milling new cases

# LISTENING – Listen and fill in the gaps

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

Doctors have a new (1) \_\_\_\_\_ when diagnosing breast cancer. It is called Google Health, and (2) \_\_\_\_\_ from Google. The tool uses Artificial Intelligence (AI) to recognise anything abnormal in breast tissue. Researchers trained the AI program to detect abnormalities. It read (3) \_\_\_\_\_ of results from X-rays over the past few years. X-rays (4) \_\_\_\_\_ doctors use to detect breast cancer. The Google Health program will help doctors (5) \_\_\_\_\_ 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 (6) \_\_\_\_\_ doctor. Google Health will make this diagnosis quicker.

Researchers from Google Health worked (7) \_\_\_\_\_ Imperial College London to design the AI program. They trained the program by inputting (8) \_\_\_\_\_ than 76,000 women in the U.K. and more than 15,000 in the USA into its software. The software then produced an algorithm. In hospital tests, the algorithm (9) \_\_\_\_\_ reading X-rays than six doctors. Google Health spokesperson Dominic King said: "Our team is (10) \_\_\_\_\_ these research findings, which suggest that we are on our way to developing a tool that can (11) \_\_\_\_\_ breast cancer with greater accuracy." The World Cancer Research Fund said over two million new cases of breast cancer (12) \_\_\_\_\_ 2019.



# COMPREHENSION QUESTIONS

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

1. Who has a new tool to diagnose breast cancer?
2. What is A.I. used to recognise in breast tissue?
3. What do doctors currently use to detect breast cancer?
4. How many doctors could be involved in looking at X-rays?
5. What will doctors be able to make more quickly using Google Health?
6. Who did Google Health experts work with?
7. How many X-rays were used to create the Google Health software?
8. What did a Google Health algorithm read X-rays better than?
9. How does the Google Health team feel about their research findings?
10. How many new breast cancer cases were reported in 2019?

# MULTIPLE CHOICE - QUIZ

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

- 1) Who has a new tool to diagnose breast cancer?
  - a) Google staff
  - b) nurses
  - c) doctors
  - d) everyone
- 2) What is A.I. used to recognise in breast tissue?
  - a) anything abnormal
  - b) anything
  - c) blood
  - d) DNA
- 3) What do doctors currently use to detect breast cancer?
  - a) MRI scans
  - b) X-rays
  - c) CAT scans
  - d) lasers
- 4) How many doctors could be involved in looking at X-rays?
  - a) 4
  - b) 2
  - c) 5
  - d) 3
- 5) What will doctors be able to make more quickly using Google Health?
  - a) medicine
  - b) appointments
  - c) a diagnosis
  - d) more money
- 6) Who did Google Health experts work with?
  - a) UCLA
  - b) Imperial College London
  - c) Jesus College Oxford
  - d) Tokyo University
- 7) How many X-rays were used to create the Google Health software?
  - a) slightly fewer than 91,000
  - b) around 91,000
  - c) exactly 91,000
  - d) over 91,000
- 8) What did a Google Health algorithm read X-rays better than?
  - a) a supercomputer
  - b) six doctors
  - c) a team of engineers
  - d) an X-ray expert
- 9) How does the Google Health team feel about their research findings?
  - a) tired
  - b) proud
  - c) hopeful
  - d) excited
- 10) How many new breast cancer cases were reported in 2019?
  - a) over two million
  - b) 200,000
  - c) 20,000,000
  - d) about 2.2 million

# ROLE PLAY

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

## **Role A – X-Ray**

You think an X-ray machine is the most useful tool for a doctor. Tell the others three reasons why. Tell them why their tool isn't as useful. Also, tell the others which is the least useful of these (and why): stethoscope, first-aid kit or thermometer.

## **Role B – Stethoscope**

You think a stethoscope is the most useful tool for a doctor. Tell the others three reasons why. Tell them why their tool isn't as useful. Also, tell the others which is the least useful of these (and why): X-ray machine, first-aid kit or thermometer.

## **Role C – First-Aid Kit**

You think a first-aid kit is the most useful tool for a doctor. Tell the others three reasons why. Tell them why their tool isn't as useful. Also, tell the others which is the least useful of these (and why): stethoscope, X-ray machine or thermometer.

## **Role D – Thermometer**

You think a thermometer is the most useful tool for a doctor. Tell the others three reasons why. Tell them why their tool isn't as useful. Also, tell the others which is the least useful of these (and why): stethoscope, first-aid kit or X-ray machine.

# AFTER READING / LISTENING

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

**1. WORD SEARCH:** Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'cancer' and 'health'.

<b>cancer</b>	<b>health</b>
---------------	---------------

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

**2. ARTICLE QUESTIONS:** Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

**3. GAP FILL:** In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

**4. VOCABULARY:** Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

**5. TEST EACH OTHER:** Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none"><li>• new</li><li>• anything</li><li>• huge</li><li>• currently</li><li>• two</li><li>• quicker</li></ul>	<ul style="list-style-type: none"><li>• experts</li><li>• 76,000</li><li>• six</li><li>• proud</li><li>• spot</li><li>• cases</li></ul>
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# BREAST CANCER SURVEY

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

# BREAST CANCER DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'cancer'?
3. What do you know about breast cancer?
4. What do you know about Artificial Intelligence?
5. How important is technology in our healthcare?
6. What do you think of X-rays?
7. What do you think of Google being our next doctor?
8. How healthy are you?
9. Will technology cure us of everything in the future?
10. What do you think of home computer software to cure us?

*Breast cancer tests better with Google Health AI – 4th January, 2020*  
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# BREAST CANCER DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'health'?
13. What do you think about what you read?
14. Would you like to be a researcher?
15. What do you know about algorithms?
16. What are you proud of?
17. What other tools should Google Health develop?
18. Are you worried that better healthcare will increase overpopulation?
19. In what other ways will Google improve our lives?
20. What questions would you like to ask the researchers?

## **DISCUSSION (Write your own questions)**

STUDENT A's QUESTIONS (Do not show these to student B)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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## **DISCUSSION (Write your own questions)**

STUDENT B's QUESTIONS (Do not show these to student A)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

# LANGUAGE - CLOZE

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

Doctors have a (1) \_\_\_\_\_ tool to use when diagnosing breast cancer. It is called Google Health, and of course (2) \_\_\_\_\_ from Google. The tool uses Artificial Intelligence (AI) to recognise anything abnormal (3) \_\_\_\_\_ breast tissue. Researchers trained the AI program to detect abnormalities. It read a huge number of results from X-rays (4) \_\_\_\_\_ the past few years. X-rays are currently what doctors use to detect breast cancer. The Google Health program will help doctors in reading (5) \_\_\_\_\_ 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 make this diagnosis (6) \_\_\_\_\_.

Researchers from Google Health worked with (7) \_\_\_\_\_ from Imperial College London to design the AI program. They trained the program (8) \_\_\_\_\_ inputting X-rays from more than 76,000 women in the U.K. and more than 15,000 in the USA into its software. The software then produced an (9) \_\_\_\_\_. In hospital tests, the algorithm did better at reading X-rays than six doctors. Google Health spokesperson Dominic King said: "Our team is really (10) \_\_\_\_\_ of these research findings, which suggest that we are on our way to developing a tool that can help doctors (11) \_\_\_\_\_ breast cancer with greater accuracy." The World Cancer Research Fund said over two million new (12) \_\_\_\_\_ of breast cancer were reported in 2019.

## Put the correct words from the table below in the above article.

- |     |               |                    |              |                 |
|-----|---------------|--------------------|--------------|-----------------|
| 1.  | (a) newt      | (b) news           | (c) new      | (d) newly       |
| 2.  | (a) comes     | (b) goes           | (c) takes    | (d) gives       |
| 3.  | (a) in        | (b) at             | (c) by       | (d) as          |
| 4.  | (a) over      | (b) round          | (c) under    | (d) by          |
| 5.  | (a) they      | (b) these          | (c) them     | (d) there       |
| 6.  | (a) quack     | (b) quick          | (c) quickens | (d) quickly     |
| 7.  | (a) geeks     | (b) intelligentsia | (c) experts  | (d) the jet set |
| 8.  | (a) to        | (b) at             | (c) on       | (d) by          |
| 9.  | (a) algorithm | (b) algebra        | (c) rhythmic | (d) abacus      |
| 10. | (a) parade    | (b) proud          | (c) proudly  | (d) pride       |
| 11. | (a) dot       | (b) spot           | (c) speck    | (d) stain       |
| 12. | (a) causes    | (b) casts          | (c) cases    | (d) castes      |



# SPELLING

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

## Paragraph 1

1. ginasonidg breast cancer
2. recognise anything lanbamro in breast tissue
3. use to dtcce breast cancer
4. reading these X-rays more terycucaa
5. The nrcreut system
6. heerhwt or not an X-ray shows cancer

## Paragraph 2

7. espertx from Imperial College London
8. design the AI rormpag
9. tnuigitnp X-rays
10. the gmrhioalt did better
11. Our team is really prudo
12. two million news ecssa of breast cancer

# PUT THE TEXT BACK TOGETHER

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

**Number these lines in the correct order.**

- ( ) detect breast cancer. The Google Health program will help doctors in reading these X-rays more
- ( ) than 15,000 in the USA into its software. The software then produced an algorithm. In hospital tests, the algorithm did
- ( **1** ) Doctors have a new tool to use when diagnosing breast cancer. It is called Google Health, and of course
- ( ) 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 make this diagnosis quicker.
- ( ) better at reading X-rays than six doctors. Google Health spokesperson Dominic King said: "Our team is really
- ( ) Researchers from Google Health worked with experts from Imperial College London to design the AI
- ( ) program. They trained the program by inputting X-rays from more than 76,000 women in the U.K. and more
- ( ) proud of these research findings, which suggest that we are on our way to developing
- ( ) said over two million new cases of breast cancer were reported in 2019.
- ( ) of results from X-rays over the past few years. X-rays are currently what doctors use to
- ( ) comes from Google. The tool uses Artificial Intelligence (AI) to recognise anything abnormal in
- ( ) breast tissue. Researchers trained the AI program to detect abnormalities. It read a huge number
- ( ) a tool that can help doctors spot breast cancer with greater accuracy." The World Cancer Research Fund

# PUT THE WORDS IN THE RIGHT ORDER

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

1. have a to new use . tool Doctors
2. anything to in abnormal recognise AI tissue . Use
3. results from A number huge X-rays . of
4. in accurately . these more X-rays doctors Help reading
5. diagnosis make will Health Google quicker . this
6. with Health from Researchers worked Google experts .
7. did algorithm X-rays . at The reading better
8. a on way to We're our developing tool .
9. cancer breast Help greater accuracy . spot with doctors
10. of Over breast cases cancer . two new million

# CIRCLE THE CORRECT WORD (20 PAIRS)

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

Doctors have a new *tile / tool* to use when diagnosing breast cancer. It is called Google Health, and of *cause / course* comes from Google. The tool uses Artificial Intelligence (AI) to recognise anything abnormal *on / in* breast tissue. Researchers trained the AI program to *defect / detect* abnormalities. It read a huge *numeral / number* of results from X-rays over the past few years. X-rays are *currently / currency* what doctors use to detect breast cancer. The Google Health program will help doctors in reading *them / these* X-rays more accurately. The current system is *that / what* two doctors agree on whether or not an X-ray *showing / shows* cancer. If they cannot agree, they ask a third doctor. Google Health will make this diagnosis *quicker / quickens*.

Researchers from Google Health worked with *expats / experts* from Imperial College London to design the AI program. They trained the program *by / as* inputting X-rays from more *that / than* 76,000 women in the U.K. and more than 15,000 in the USA into its software. The software then produced an *algorithm / algebra*. In hospital tests, the algorithm did *good / better* at reading X-rays than six doctors. Google Health spokesperson Dominic King said: "Our team is really *pride / proud* of these research findings, which suggest that we are *in / on* our way to developing a tool that can help doctors *spit / spot* breast cancer with greater *accuracy / accurate*." The World Cancer Research Fund said over two million new cases of breast cancer were reported *on / in* 2019.

**Talk about the connection between each pair of words in italics, and why the correct word is correct.**

# INSERT THE VOWELS (a, e, i, o, u)

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

D\_c t\_r s h\_v \_ \_ n\_w t \_ \_ l t \_ s \_ w h\_n d \_ \_ g n\_s\_n  
g b r \_ \_ s t c\_n c\_r . I t \_ s c\_l l\_d G \_ \_ g l\_ H \_ \_ l t  
h , \_ n d \_ f c \_ \_ r s \_ c\_m\_s f r\_m G \_ \_ g l\_ . T h \_ t \_ \_  
l \_ s\_s A r t\_f\_c \_ \_ l I n t\_l l\_g\_n c\_ ( A I ) t \_ r\_c\_g  
n\_s \_ \_ n y t h\_n g \_ b n\_r m\_l \_ n b r \_ \_ s t t\_s s \_ \_ .  
R\_s \_ \_ r c h\_r s t r \_ \_ n\_d t h \_ A I p r\_g r\_m t \_ d\_t\_c  
t \_ b n\_r m\_l\_t \_ \_ s . I t r \_ \_ d \_ \_ h\_g \_ n\_m b\_r \_ f  
r\_s\_l t\_s f r\_m X - r\_y s \_ v\_r t h \_ p\_s t f\_w y \_ \_ r s  
. X - r\_y s \_ r \_ c\_r r\_n t\_l y w h\_t d\_c t\_r s \_ s \_ t  
d\_t\_c t b r \_ \_ s t c\_n c\_r . T h \_ G \_ \_ g l\_ H \_ \_ l t h p  
r\_g r\_m w\_l l h\_l p d\_c t\_r s \_ n r \_ \_ d\_n g t h\_s \_ X  
- r\_y s m\_r \_ \_ c\_c\_r\_t\_l y . T h \_ c\_r r\_r n t s\_y s\_t\_e\_m \_ s  
t h\_t t w \_ d\_c t\_r s \_ g r \_ \_ \_ n w h\_t h\_r \_ r\_n t \_ n  
X - r\_y s h\_w s c\_n c\_r . I f t h\_y c\_n n\_t \_ g r \_ \_ ,  
t h\_y \_ s\_k \_ t h\_r d d\_c t\_r . G \_ \_ g l\_ H \_ \_ l t h w\_l l  
m\_k \_ t h\_s d \_ \_ g n\_s\_s q \_ \_ c k\_r .

R\_s \_ \_ r c h\_r s f r\_m G \_ \_ g l\_ H \_ \_ l t h w\_r k\_d w\_t  
h \_ x p\_r t\_s f r\_m I m p\_r \_ \_ l C\_l l\_g\_ L\_n d\_n t \_  
d\_s\_g n t h \_ A I p r\_g r\_m . T h\_y t r \_ \_ n\_d t h \_ p  
r\_g r\_m b y \_ n p\_t\_t\_n g X - r\_y s f r\_m m\_r \_ t h\_n  
76,000 w\_m\_n \_ n t h \_ U . K . \_ n d m\_r \_ t h\_n 1  
5,000 \_ n t h \_ U S A \_ n t \_ \_ t\_s s\_f t w\_r \_ . T h \_ s\_f  
t w\_r \_ t h\_n p r\_d\_c\_d \_ n \_ l g\_r\_t h\_m . I n h\_s p\_t\_l  
t\_s t\_s , t h \_ \_ l g\_r\_t h\_m d\_d b\_t\_t\_r \_ t r \_ \_ d\_n g X  
- r\_y s t h\_n s\_x d\_c t\_r s . G \_ \_ g l\_ H \_ \_ l t h s  
p\_k\_s p\_r s\_n D\_m\_n\_c K\_n g s \_ \_ d : " O\_r t \_ \_ m \_ s  
r \_ \_ l\_l y p r \_ \_ d \_ f t h\_s \_ r\_s \_ \_ r c h f\_n d\_n g\_s , w  
h\_c h s\_g g\_s t t h\_t w \_ \_ r \_ \_ n \_ \_ r w\_y t \_  
d\_v\_l\_p\_n g \_ t \_ \_ l t h\_t c\_n h\_l p d\_c t\_r s s\_p\_t  
b r \_ \_ s t c\_n c\_r w\_t h g r \_ \_ t\_r \_ c\_c\_r\_c\_y . " T h \_  
W\_r l\_d C\_n c\_r R\_s \_ \_ r c h F\_n d s \_ \_ d \_ v\_r t w \_  
m\_l l \_ \_ n n\_w c\_s\_s \_ f b r \_ \_ s t c\_n c\_r w\_r \_  
r\_p\_r\_t\_d \_ n 2019 .

# PUNCTUATE THE TEXT AND ADD CAPITALS

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

doctors have a new tool to use when diagnosing breast cancer it is called google health and of course comes from google the tool uses artificial intelligence ai to recognise anything abnormal in breast tissue researchers trained the ai program to detect abnormalities it read a huge number of results from xrays over the past few years xrays are currently what doctors use to detect breast cancer the google health program will help doctors in reading these xrays more accurately the current system is that two doctors agree on whether or not an xray shows cancer if they cannot agree they ask a third doctor google health will make this diagnosis quicker

researchers from google health worked with experts from imperial college london to design the ai program they trained the program by inputting xrays from more than 76000 women in the uk and more than 15000 in the usa into its software the software then produced an algorithm in hospital tests the algorithm did better at reading xrays than six doctors google health spokesperson dominic king 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 over two million new cases of breast cancer were reported in 2019

## PUT A SLASH ( / ) WHERE THE SPACES ARE

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

Doctors have a new tool to use when diagnosing breast cancer. It is called Google Health, and of course comes from Google. The tool uses Artificial Intelligence (AI) to recognise anything abnormal in breast tissue. Researchers trained the AI program to detect abnormalities. It read a huge number of results from X-rays over the past few years. X-rays are currently what doctors use to detect breast cancer. The Google Health program will help doctors in reading these 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 make this diagnosis quicker. Researchers from Google Health worked with experts from Imperial College London to design the AI program. They trained the program by inputting X-rays from more than 76,000 women in the U.K. and more than 15,000 in the USA into its software. The software then produced an algorithm. In hospital tests, the algorithm did better at reading X-rays than six doctors. Google Health spokesperson Dominic Kings 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 over two million new cases of breast cancer were reported in 2019.







# HOMEWORK

**1. VOCABULARY EXTENSION:** Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

**2. INTERNET:** Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

**3. BREAST CANCER:** Make a poster about breast cancer. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. AI:** Write a magazine article about AI replacing doctors. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

**5. WHAT HAPPENED NEXT?** Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

**6. LETTER:** Write a letter to an expert on breast cancer. Ask him/her three questions about it. Give him/her three of your opinions on it . Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

# ANSWERS

## VOCABULARY (p.4)

1. e    2. a    3. d    4. c    5. b    6. g    7. f  
8. i    9. n    10. l    11. m    12. j    13. h    14. k

## TRUE / FALSE (p.5)

- a F    b T    c F    d T    e T    f F    g F    h F

## SYNONYM MATCH (p.5)

1. f	2. d	3. h	4. j	5. b
6. c	7. e	8. i	9. g	10. a

## COMPREHENSION QUESTIONS (p.9)

1. Doctors
2. Anything abnormal
3. X-rays
4. Three
5. A diagnosis
6. Researchers from Imperial College London
7. Over 91,000
8. Six doctors
9. Proud
10. Over two million

## WORDS IN THE RIGHT ORDER (p.20)

1. Doctors have a new tool to use.
2. Use AI to recognise anything abnormal in tissue.
3. A huge number of results from X-rays.
4. Help doctors in reading these X-rays more accurately.
5. Google Health will make this diagnosis quicker.
6. Researchers from Google Health worked with experts.
7. The algorithm did better at reading X-rays.
8. We're on our way to developing a tool.
9. Help doctors spot breast cancer with greater accuracy.
10. Over two million new cases of breast cancer.

## MULTIPLE CHOICE - QUIZ (p.10)

1. c    2. a    3. b    4. d    5. c    6. b    7. d    8. b    9. b    10. a

## ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.  
(It's good for your English ;-)