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Level 6 - 26th January, 2020

Stress really does turn your hair grey

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https://breakingnewsenglish.com/2001/200126-grey-hair.html

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Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Scientists have discovered that stress is one factor in turning our hair grey, white or silver - at least, in mice. Stem cell biologists from Harvard University in the USA conducted a series of tests on mice to ascertain the effects of stress on the rodents. The scientists injected the mice with an ingredient found in chili peppers that gives them their heat. The compound made the mice stressed. This caused a hair-colouring pigment in the mice to go into overdrive as a reaction to the stress and deplete colour-regenerating stem cells. This caused the mice's hair to rapidly turn white. Lead researcher, Professor Ya-Chieh Hsu, said: "The detrimental impact of stress that we discovered was beyond what I imagined."

People have wondered for centuries about the link between stress and greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she was beheaded during the French Revolution in the late-eighteenth century. More recently, we have witnessed the locks of presidents and other world leaders quickly lose color. The strains of leadership seem to go to the roots of things, especially hair follicles. Professor Hsu said the loss of the pigment-regenerating stem cells cannot be reversed. She said: "Once they're gone, you can't regenerate pigment any more. The damage is permanent." Worryingly, she hypothesised that stress could be responsible for accelerating the aging process.

Sources: https://www.thesun.co.uk/news/10800966/stress-cause-hair-to-go-grey/

https://www.the-scientist.com/news-opinion/stress-turns-hair-gray-by-depleting-pigment-

producing-stem-cells-67004

https://metro.co.uk/2020/01/23/yes-stress-really-turn-hair-grey-12107764

WARM-UPS

- **1. GREY HAIR:** Students walk around the class and talk to other students about grey hair. 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?

scientists / stress / biologists / effects / mice / chili peppers / hair colour / reaction / centuries / eighteenth century / presidents / world leaders / hair follicles / cells / aging

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

- **3. NO HAIR:** Students A **strongly** believe having no hair is better than having hair; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.
- **4. HAIR:** What can we do about these hair problems? How worried are you about them? Complete this table with your partner(s). Change partners often and share what you wrote.

	What We Can Do	How Worried Are You?
Greying		
Balding		
Split ends		
Dandruff		
Greasy hair		
Unmanageable hair		

- **5. MICE:** Spend one minute writing down all of the different words you associate with the word "mice". Share your words with your partner(s) and talk about them. Together, put the words into different categories.
- **6. STRESS:** Rank these with your partner. Put the most stressful things at the top. Change partners often and share your rankings.

Money

Exams

Family

Weight

English level

Family

Neighbours

Public transport

VOCABULARY MATCHING

Paragraph 1

- 1. factor a. A component part or element of something.
- 2. stem cell b. A circumstance, fact, or influence that contributes to a result or outcome.
- 3. ascertain c. Find something out for sure; make sure of.
- 4. ingredient d. The natural coloring matter of animal or plant tissue.
- 5. compound e. Tending to cause harm.
- 6. pigment f. A cell which is capable of giving rise to millions more cells of the same type.
- 7. detrimental g. A thing that is composed of two or more separate elements; a mixture.

Paragraph 2

- 8. beheaded h. A state of tension or exhaustion resulting from severe demands on one's strength or resources.
- 9. witnessed i. Increase in speed, amount or extent.
- 10. locks j. Regrow new tissue to replace lost or injured tissue.
- 11. strain k. A piece of a person's hair.
- 12. follicles

 I. The bag of cells and connective tissue which surrounds the root of a hair.
- 13. regenerate m. Cut off the head off someone, especially for an execution.
- 14. accelerating n. Saw an event.

BEFORE READING / LISTENING

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

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

- a. The article said scientists found three factors that turn our hair grey. **T / F**
- b. Scientists did many tests on mice and monkeys. T / F
- c. Scientists gave chilli pepper to mice to make them stressed. T / F
- d. The test results were just what a researcher imagined they would be. **T/F**
- e. A gueen's hair supposedly went white the night before she lost her head. T / F
- f. The article says the pressures of leadership turns hair white. **T / F**
- g. The loss of the colouring pigment can be reversed. **T/F**
- h. A professor said stress is the major cause of aging. **T/F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- 1. factor
- 2. conducted
- 3. ingredient
- 4. deplete
- 5. detrimental
- 6. beheaded
- 7. strains
- 8. reversed
- 9. pigment
- 10. accelerating

- a. hastening
- b. use up
- c. decapitated
- d. carried out
- e. colour
- f. harmful
- g. altered
- h. element
- i. stresses
- j. constituent

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

- 1. Scientists have discovered that
- 2. Stem cell biologists
- 3. ascertain the effects of stress
- 4. an ingredient
- 5. The detrimental
- 6. the night before she
- 7. go to the roots of things,
- 8. you can't regenerate pigment
- 9. The damage is
- 10. responsible for accelerating

- a. found in chili peppers
- b. permanent
- c. was beheaded
- d. especially hair follicles
- e. from Harvard University
- f. any more
- g. on the rodents
- h. the aging process
- i. stress is one factor
- i. impact of stress

GAP FILL

Scientists have discovered that stress is one (1) in	least
turning our hair grey, white or silver - at (2), in	rodents
mice. Stem cell biologists from Harvard University in the USA	beyond
conducted a (3) of tests on mice to ascertain the	factor
effects of stress on the (4) The scientists injected	14001
the mice with an ingredient found in chili peppers that gives them	overdrive
their heat. The (5) made the mice stressed. This	series
caused a hair-colouring pigment in the mice to go into	rapidly
(6) as a reaction to the stress and deplete colour-	compound
regenerating stem cells. This caused the mice's hair to	compound
(7) turn white. Lead researcher, Professor Ya-Chieh	
Hsu, said: "The detrimental impact of stress that we discovered	
was (8) what I imagined."	
People have wondered for (9) about the link	strains
between stress and greying hair. It is believed that France's Queen	beheaded
Marie Antoinette's hair turned white the night before she was	permanent
(10) during the French Revolution in the late-	•
eighteenth century. More recently, we have (11)	follicles
the locks of presidents and other world leaders quickly lose color.	process
The (12) of leadership seem to go to the roots of	centuries
things, especially hair (13) Professor Hsu said the	witnessed
loss of the pigment-regenerating stem cells cannot be reversed.	regenerate
She said: "Once they're gone, you can't (14)	regenerate
pigment any more. The damage is (15)"	
, , , , , , , , , , , , , , , , , , , ,	
Worryingly, she hypothesised that stress could be responsible for	

LISTENING — Guess the answers. Listen to check.

1)	conducted a series of tests on mice to ascertain the effects of stress a. on the residents b. on the recent c. on the rodents
2)	 d. on the rodeo nuts injected the mice with an ingredient found in chili peppers that gives a. them their hot b. them their warm c. them their heating d. them their heat
3)	go into overdrive as a reaction to the stress and deplete colour-regenerating a. stem cells b. storm cells c. stern cells d. stone cells
4)	This caused the mice's hair to white a. rapidly turns b. rapidly turn c. rapidly turned d. rapidly turning
5)	The detrimental impact of stress that we discovered was imagined a. be yonder what I b. by yonder what I c. beer yond what I d. beyond what I
6)	Queen Marie Antoinette's hair turned white the night before a. she was bearded b. she was behest c. she was beyond d. she was beheaded
7)	strains of leadership seem to go to the roots of things, especially a. hair folly calls b. hair folly cells c. hair follicles d. hair falling calls
8)	Professor Hsu said the loss of the pigment-regenerating stem cells a. cannot be reserved b. cannot be regaled c. cannot be resealed d. cannot be reversed
9)	She said: "Once they're gone, you can't regenerate more" a. pig meant any b. pigment any c. pig mint any d. pigging any
10) hypothesised that stress could be responsible for accelerating the
	a. age in process
	b. aching process
	c. aging processd. raging process

LISTENING – Listen and fill in the gaps

Scientists have discovered that stress is one (1) our
hair grey, white or silver - at least, in mice. Stem cell biologists from
Harvard University in the USA (2) of tests on mice to
ascertain the effects of stress on the rodents. The scientists injected the
mice with (3) in chili peppers that gives them their
heat. The compound made the mice stressed. This caused a hair-colouring
pigment in the mice to (4) as a reaction to the stress
and (5) stem cells. This caused the mice's hair to
rapidly turn white. Lead researcher, Professor Ya-Chieh Hsu, said: "The
detrimental impact of stress that we discovered (6) I
imagined."
People have (7) about the link between stress and
People have (7) about the link between stress and greying hair. It is believed that France's Queen Marie Antoinette's hair
greying hair. It is believed that France's Queen Marie Antoinette's hair
greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she (8)
greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she (8) the French Revolution in the late-eighteenth century. More recently, we have
greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she (8) the French Revolution in the late-eighteenth century. More recently, we have of presidents and other world leaders quickly lose
greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she (8) the French Revolution in the late-eighteenth century. More recently, we have of presidents and other world leaders quickly lose color. The strains of leadership seem to go to (10)
greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she (8) the French Revolution in the late-eighteenth century. More recently, we have (9) of presidents and other world leaders quickly lose color. The strains of leadership seem to go to (10) things, especially hair follicles. Professor Hsu said the loss of the pigment-
greying hair. It is believed that France's Queen Marie Antoinette's hair turned white the night before she (8) the French Revolution in the late-eighteenth century. More recently, we have (9) of presidents and other world leaders quickly lose color. The strains of leadership seem to go to (10) things, especially hair follicles. Professor Hsu said the loss of the pigment-regenerating stem cells cannot be reversed. She said: "Once they're gone,

COMPREHENSION QUESTIONS

1.	How many hair-greying factors did scientists discover?
2.	What university conducted this research?
3.	What did researchers inject an ingredient of into test mice?
4.	What happened to colour-regenerating stem cells after an injection?
5.	What did a researcher say about the detrimental impact of stress?
6.	For how long have people worried about stress and greying hair?
7.	Whose locks have we seen lose colour in recent times?
8.	Where do the strains of leadership go to besides the roots of things?
9.	What did the researcher say about the damage to the pigment?
10.	What other thing did the researcher say stress might accelerate?

MULTIPLE CHOICE - QUIZ

- 1) How many hair-greying factors did scientists discover?
- a) four
- b) one
- c) three
- d) two
- 2) What university conducted this research?
- a) Beijing
- b) Sorbonne
- c) Harvard
- d) Oxford
- 3) What did researchers inject an ingredient of into test mice?
- a) pepper
- b) tea
- c) salt
- d) chili peppers
- 4) What happened to colourregenerating stem cells after an injection?
- a) they made the mice run faster
- b) they were depleted
- c) they revived
- d) they changed colour
- 5) What did a researcher say about the detrimental impact of stress?
- a) it was beyond what she imagined
- b) nothing
- c) she was not surprised
- d) she was impressed

- 6) For how long have people worried about stress and greying hair?
- a) centuries
- b) dozens of years
- c) millennia
- d) decades
- 7) Whose locks have we seen lose colour in recent times?
- a) teenagers
- b) babies
- c) actors
- d) presidents
- 8) Where do the strains of leadership go to besides the roots of things?
- a) split ends
- b) the scalp
- c) hair follicles
- d) dandruff
- 9) What did the researcher say about the damage to the pigment?
- a) it was interesting
- b) nothing
- c) it isn't a problem
- d) it is permanent
- 10) What other thing did the researcher say stress might accelerate?
- a) poor eyesight
- b) ageing
- c) weight gain
- d) dementia

ROLE PLAY

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Role A - Money

You think money is the most stressful thing. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least stressful of these (and why): English level, public transport or family.

Role B - English Level

You think English level is the most stressful thing. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least stressful of these (and why): money, public transport or family.

Role C - Public Transport

You think public transport is the most stressful thing. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least stressful of these (and why): English level, money or family.

Role D - Family

You think family is the most stressful thing. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least stressful of these (and why): English level, public transport or money.

AFTER READING / LISTENING

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

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

grey	hair

- 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:

• factor	• link
• series	• night
 rodents 	• locks
• heat	• roots
 compound 	• gone
• beyond	• process

GREY HAIR SURVEY

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Write five GOOD questions about grey hair 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.

GREY HAIR 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 'grey'?
- 3. What do you think of your hair?
- 4. What is the best hair colour?
- 5. What stress is there in your life?
- 6. What is the best hair colour to have?
- 7. What do you think of people with grey hair?
- 8. Is grey hair better than being bald?
- 9. Would you dye your hair to cover the grey?
- 10. Would you wear a wig to hide your grey hair?

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GREY HAIR 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 'hair'?
- 13. What do you think about what you read?
- 14. Would life be better without hair?
- 15. What do you think of our hair turning grey?
- 16. What is the best way to deal with stress?
- 17. Would you quit a job that was turning your hair grey?
- 18. How can we best look after our hair?
- 19. Are you worried that stress could accelerate the aging process?
- 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)

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)ISC	JSSION (Write	your ow	n quest	ions)
TUDENT	JSSION (Write y B's QUESTIONS (Do not	- '	-	ions)
TUDENT	-	- '	-	ions)
TUDENT	-	- '	-	ions)
TUDENT	-	- '	-	ions)
TUDENT	-	- '	-	ions)
	-	- '	-	ions)

LANGUAGE - CLOZE

Scie	ntists	have discover	ed tha	t stress is on	e facto	or (1) tu	rning	our hair grey,
whit	e or s	ilver - at least,	in mic	e. Stem cell b	oiologi	sts from Harva	ard Ur	niversity in the
USA	cond	ucted a (2)	_ of te	ests on mice t	to asc	ertain the effe	cts of	stress on the
rode	nts. 7	The scientists (3)	_ the mice w	ith an	ingredient fo	und in	n chili peppers
that	gives	them their (4)		The compour	nd mad	de the mice st	resse	d. This caused
a ha	ir-col	ouring pigment	in the	mice to go ir	nto ov	erdrive as a re	eaction	n to the stress
and	(5)	colour-rege	enerati	ng stem cells	. This	caused the m	ice's	hair to rapidly
turn	white	e. Lead researc	her, Pr	ofessor Ya-Cl	nieh H	su, said: "The	detri	mental impact
of st	ress t	hat we discove	ered wa	as (6) wh	at I in	nagined."		
Peop	ole ha	ve (7) for	centur	ies about the	link b	etween stress	and g	reying hair. It
is b	elieve	d that France	's Que	en Marie An	toinet	te's hair turn	ed wl	nite the night
befo	re she	e was (8)	during	the French R	evolut	ion in the late	-eight	eenth century
More	e rece	ently, we have	e witn	essed the (9)		$_{\scriptscriptstyle -}$ of president	s and	d other world
lead	ers q	uickly lose col	or. Th	e strains of I	eader	ship seem to	go to	the roots of
		specially hair						
_		ing stem cells					-	_
	_	enerate pigmer	=		_	-		
		sed that stres	s coul	d be respons	sible ((12) acc	elerati	ing the aging
proc	ess.							
Put	the c	orrect words	from	the table bel	low in	the above a	rticle	-
1.	(a)	on	(b)	in	(c)	by	(d)	at
2.	(a)	cereal	(b)	series	(c)	serial	(d)	serious
3.	(a)	dejected	(b)	infected	(c)	conjectured	(d)	injected
4.	(a)	warm	(b)	heat	(c)	hot	(d)	heating
5.	(a)	complete	(b)	deplete	(c)	replete	(d)	pleat
6.	(a)	yonder	(b)	behest	(c)	beyond	(d)	behind
7.	(a)	wandered	(b)	winded	(c)	wondered	(d)	wounded
8.	(a)	bedecked	(b)	bejewelled	(c)	beheaded	(d)	behemoth
9.	(a)	licks	(b)	lacks	(c)	looks	(d)	locks
10.	(a)	follicles	(b)	particles	(c)	rallies	(d)	popsicles
11.	(a)	reversed	(b)	backed	(c)	reserved	(d)	backward
12.	(a)	of	(b)	at	(c)	for	(d)	on

SPELLING

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Paragraph 1

- 1. Stem cell <u>Istboisigo</u> from Harvard University
- 2. the effects of stress on the drtosen
- 3. an indrteigne found in chili peppers
- 4. a hair-colouring igtpemn in the mice
- 5. <u>deeeptl</u> colour-regenerating stem cells
- 6. The <u>rendmetailt</u> impact of stress

Paragraph 2

- 7. People have <u>enodewrd</u> for centuries
- 8. <u>deeahebd</u> during the French Revolution
- 9. we have einsdwset the locks of
- 10. The irtssna of leadership
- 11. hair isllfloec
- 12. <u>ticeenalacrg</u> the aging process

PUT THE TEXT BACK TOGETHER

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Number these lines in the correct order.

()	ascertain the effects of stress on the rodents. The scientists injected the mice with an ingredient found in
()	Queen Marie Antoinette's hair turned white the night before she was beheaded during the French Revolution in the late-
()	least, in mice. Stem cell biologists from Harvard University in the USA conducted a series of tests on mice to
()	eighteenth century. More recently, we have witnessed the locks of presidents and other world
()	"The detrimental impact of stress that we discovered was beyond what I imagined."
()	permanent." Worryingly, she hypothesised that stress could be responsible for accelerating the aging process.
()	leaders quickly lose color. The strains of leadership seem to go to the roots of things, especially hair
()	pigment in the mice to go into overdrive as a reaction to the stress and deplete colour-regenerating stem
()	chili peppers that gives them their heat. The compound made the mice stressed. This caused a hair-colouring
()	follicles. Professor Hsu said the loss of the pigment-regenerating stem cells cannot be
()	cells. This caused the mice's hair to rapidly turn white. Lead researcher, Professor Ya-Chieh Hsu, said:
(1)	Scientists have discovered that stress is one factor in turning our hair grey, white or silver - at
()	reversed. She said: "Once they're gone, you can't regenerate pigment any more. The damage is
()	People have wondered for centuries about the link between stress and greying hair. It is believed that France's

PUT THE WORDS IN THE RIGHT ORDER

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

- 1. one Scientists is discovered factor . that stress have
- 2. injected scientists mice ingredient . the with The an
- 3. a Go to stress . overdrive reaction into as
- 4. caused white . mice's the This to hair turn
- 5. that stress impact detrimental The discovered . we of
- 6. wondered the link . about People have for centuries
- 7. beheaded . night was before the white Turned she
- 8. to to Seem of things . the roots go
- 9. stem cannot cells The reversed . be pigment-regenerating
- 10. responsible . stress Worryingly, that she could be hypothesised

CIRCLE THE CORRECT WORD (20 PAIRS)

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Scientists have discovered that stress is *one / once* factor in turning our hair grey, white or silver - at *last / least*, in mice. Stem cell biologists from Harvard University in the USA conducted a *series / serial* of tests on mice to ascertain the *effects / affects* of stress on the rodents. The scientists injected the mice with an *ingredient / increment* found in chili peppers that gives them their *hot / heat*. The *compound / confound* made the mice stressed. This caused a hair-colouring pigment in the mice to go into *overtake / overdrive* as a reaction to the stress and deplete colour-regenerating stem cells. This caused the mice's hair to rapidly *move / turn* white. Lead researcher, Professor Ya-Chieh Hsu, said: "The detrimental impact of stress that we discovered was *beyond / behind* what I imagined."

People have wondered / wandered for centuries about the link between stress and greying hair. It is belief / believed that France's Queen Marie Antoinette's hair turned white the night before she was headed / beheaded during the French Revolution in the late-eighteenth century. More recently, we have witnessed / trialled the locks of presidents and other world leaders quickly lose color. The stains / strains of leadership seem to go to the roots of things, especially hair follicles / icicles. Professor Hsu said the loss of the pigment-regenerating stem cells cannot be reserved / reversed. She said: "Once they're gone, you can't regenerate / regurgitate pigment any more. The damage is permanent / permafrost." Worryingly, she hypothesised that stress could be / have responsible for accelerating the aging process.

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/2001/200126-grey-hair.html

 $Sc_{-}nt_{sts}h_{v_{-}}d_{sc_{-}v_{-}r_{d}}th_{t}str_{ss_{-}s}$ _n_ f_c t_r _n t_r n_n g __ r h__ r g r_y , w h_t_ _r $s_l v_r - t_l s_t$, n_c . $S_t m_c l_l b_{-}$ I_g_s ts fr_m H_r v_r d U n_v_r s_t y _n th_ U S A $c_n d_c t_d = s_r s_f t_s t_s n_m c_t s_c r$ $t_n n th_f cts_f str_ss_n th_r_d_nts$. T h_ s c__ n t_s t s _n j_c t_d t h_ m_c_ w_t h _n _n g r_d_ nt f_ nd _n ch_l_ p_pp_rs th_t g_v_s t h_m t h_r r h_r t . T h_r c_m p_r n d m_r d_r t h_r m_c_ s t r_s s_d . T h_s c__ s_d _ h__ r - c_l__ r_n g p_g m_n t _n t h_ m_c_ t_ g_ _n t_ _v_r d r_v_ _s _ $r_g_n_r_t_n g s t_m c_l l s$. Th_s $c_s_d t h_s$ $m_c's$ h_r $t_r_p_d$ ly t_r m_t h_t r_s__ r c h_r , P r_f_s s_r Y_- C h__ h H s_, s__ d : "Th_ d_tr_m_nt_l _m p_ct _f str_ss th_t w_ $d_s c_v_r_d w_s b_y_n d w h_t I _m_g_n_d .$ " P__ p l_ h_v_ w_n d_r_d f_r c_n t_r__ s _b__ t t h_ l_nk b_tw__ n str_ss _nd gr_y_ng h__ r. It _s b_l__ v_d th_t Fr_n c_'s Q___n M_r__ Ant__ n_t t_'s h__ r t_r n_d w h_t_ t h_ n_g h t b_f_r_ s h_ w_s b_h__ d_d d_r_ng th_ Fr_nch R_v_l_t__ n _n th_ l_t_-_ ght_ nth c_nt_ry. M_r_ r_c_ntl y, w_h_v_ w_tn_ss_d th_ l_cks _f pr_s_d_n ts $_$ nd $_$ th $_$ r w_rld I_ $_$ d $_$ rs q_ $_$ ckIy I_s $_$ c $_$ I $_$ r. Th_ str__ ns _f l__ d_rsh_p s__ m t_ g_ t_ th_ r_ts_f th_ngs , $_sp_c__lly$ $h__r$ $f_ll_cl_s$. r_g_n_r_t_n g s t_m c_lls c_n n_t b_ r_v_r s_d . S $h_{s_{-}} d : "Onc_{t_{-}} t h_{y_{-}} r_{g_{-}} g_{n_{-}}, y_{-} c_{n_{-}} t$ r_g_n_r_t_ p_g m_n t _n y m_r_. T h_ d_m_g_ _s p_r m_n_n t." W_rry_ngly, sh_ hyp_th_s_s_d th_t str_ss c__ld b_ r_sp_ns_bl_ f_r _c c_l_r_t_ng t h_gng pr_css .

PUNCTUATE THE TEXT AND ADD CAPITALS

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

scientists have discovered that stress is one factor in turning our hair grey

white or silver at least in mice stem cell biologists from harvard university in

the usa conducted a series of tests on mice to ascertain the effects of stress

on the rodents the scientists injected the mice with an ingredient found in

chili peppers that gives them their heat the compound made the mice

stressed this caused a haircolouring pigment in the mice to go into overdrive

as a reaction to the stress and deplete colourregenerating stem cells this

caused the mices hair to rapidly turn white lead researcher professor yachieh

hsu said the detrimental impact of stress that we discovered was beyond

what i imagined

people have wondered for centuries about the link between stress and

greying hair it is believed that frances gueen marie antoinettes hair turned

white the night before she was beheaded during the french revolution in the

lateeighteenth century more recently we have witnessed the locks of

presidents and other world leaders quickly lose color the strains of

leadership seem to go to the roots of things especially hair follicles professor

hsu said the loss of the pigmentregenerating stem cells cannot be reversed

she said once theyre gone you cant regenerate pigment any more the

damage is permanent worryingly she hypothesised that stress could be

responsible for accelerating the aging process

PUT A SLASH (/) WHERE THE SPACES ARE

From https://breakingnewsenglish.com/2001/200126-grey-hair.html

Scientistshavediscoveredthatstressisonefactorinturningourhairgre y, whiteors ilver-at least, in mice. Stem cell biologists from Harvard Un iversityintheUSAconductedaseriesoftestsonmicetoascertaintheeffe ctsofstressontherodents. The scientist sinjected the mice with an ingred ientfoundinchilipeppersthatgivesthemtheirheat. The compound mad ethemicestressed. This caused a hair-colouring pigment in the mice to g ointooverdriveasareactiontothestressanddepletecolour-regenera tingstemcells. This caused the mice's hair to rapidly turn white. Leadrese archer, Professor Ya-Chieh Hsu, said: "The detrimental impact of stresst hatwediscoveredwasbeyondwhatIimagined."Peoplehavewonderedf orcenturiesaboutthelinkbetweenstressandgrevinghair. It is believed t hatFrance'sQueenMarieAntoinette'shairturnedwhitethenightbefore shewasbeheadedduringtheFrenchRevolutioninthelate-eighteenthc entury. More recently, we have witnessed the locks of presidents and oth erworldleadersquicklylosecolour. The strains of leadershipse em to got otherootsofthings, especially hairfollicles. Professor Hsusaid the loss of thepigment-regeneratingstemcellscannotbereversed. Shesaid: "On cethey'regone, you can't regenerate pigmentany more. The damage is p ermanent."Worryingly, shehypothesised that stress could be responsi bleforacceleratingtheagingprocess.

FREE WRITING

Write about grey hair for 10 minutes. Comment on your partner's paper.				

ACADEMIC WRITING

Humans would lead better lives if they had no hair at all. Discuss.					

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. GREY HAIR:** Make a poster about grey hair. Show your work to your classmates in the next lesson. Did you all have similar things?
- **4. NO HAIR:** Write a magazine article about everyone getting rid of their hair to save time, money and stress. 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 grey hair. Ask him/her three questions about it. Give him/her three of your opinions on hair. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

2. f 3. 1. b 4. 5. 6. С 7. 8. 9. 11. 12. I 13. j m n 10. k h 14.

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

WORDS IN THE RIGHT ORDER (p.20)

1.	One	1.	Scientists have discovered that stress is one factor.
2.	Harvard	2.	The scientists injected the mice with an ingredient.
3.	Chili peppers	3.	Go into overdrive as a reaction to stress.
4.	They were depleted	4.	This caused the mice's hair to turn white.
5.	It was beyond what she imagined	5.	The detrimental impact of stress that we discovered.
6.	Centuries	6.	People have wondered for centuries about the link.
7.	Presidents and world leaders	7.	Turned white the night before she was beheaded.
8.	Hair follicles	8.	Seem to go to the roots of things.
9.	It is permanent	9.	The pigment-regenerating stem cells cannot be reversed.
10.	The aging process	10.	Worryingly, she hypothesised that stress could be responsible.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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