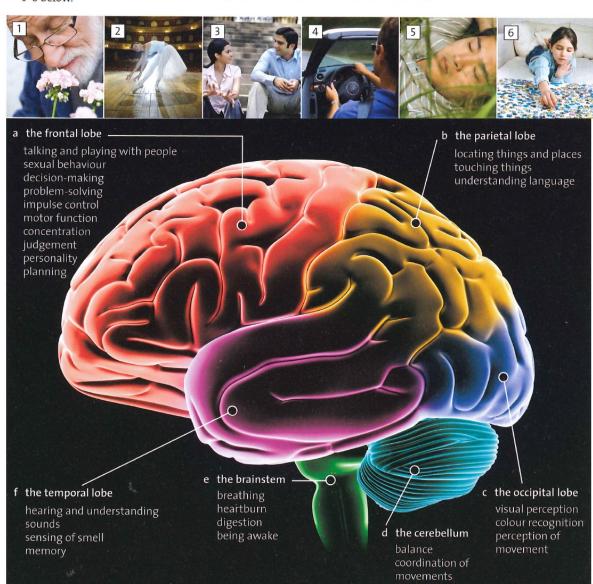
Scrub up

- Look at the map of the brain. With a partner, decide which parts of the brain a-f you would use most when doing each of the actions 1-6 below.
- 2 Listen to five people describing the effect of a head injury on a family member or friend. Decide which part of the brain a-f you think each person has damaged. Compare your answers with a partner before listening again.

1	3	5	
2	1		



Glasgow coma scale

Read about the Glasgow coma scale and complete the text with the adjectives and adverbs below.

Eye response a eyes opening to^2 command b no eye opening	three tests gives the patie	ent's GCS score.	
b no eye opening	Eye response		
	a eyes opening to	² command	
c eyes opening in response to pain	b no eye opening		1
	c eyes opening in response	e to pain	
d eyes opening3	d eyes opening	3	

	Verbal response
a	confused (the patient responds to questions but there is4, some confusion)
b	none
С	inappropriate words (5 speech, but no conversational exchange)
d	6 sounds (moaning, but no words)
е	orientated (the patient responds ⁷ to simple questions)
	Motor response
a	withdrawal (pulls arm away) from pain
b	extension (arms straight by sides) in response to pain
c	no motor response
d	obeys commands (the patient does simple things as asked)
е	localizing to pain (moves hand towards pain)
f	flexion (arms8 up to chin) to pain

First and Second Conditional

- Work in pairs. Read the two sentences, spoken by a doctor. Answer the questions that follow.
 - a His blood pressure would be lower if he didn't
 - b If we break up the clot now, that'll prevent further damage to the brain.
 - 1 Which sentence talks about something which is possible in the future?
 - 2 Which sentence imagines something different from the real situation now?
- 2 Complete the sentences

3

1. If Mr. Jo affect) his	ones (not stop/drink), he (really healt.			
2. I (not give) Mrs Rook morphine if she (not want) it.				
3. She operate) s	oon. (probably die) if we (not			
4. If he after) at h	(not be) in hospital, he (be looked ome.			
5. They their medi	(not recover) if they (not take) cine.			
If Georg holiday.	ge (be not) in hospital, he (be) on			
_	e the dialogue by putting the verbs in in the correct tense.			
Nurse 1	How's Mr Rigg?			
Nurse 2	If his operation <u>goes</u> (go) well tomorrow, he <u>'ll make</u> (make) a full and speedy recovery.			
Nurse 1	It's a straightforward procedure, isn't it?			
Nurse 2	Yes, he's having a haematoma evacuated from his skull. He3 (be) home by the weekend, unless something unexpected 4 (happen).			
Nurse 1	There 5 (not be) so many accidents if they 6 (have) more cycle paths.			
Nurse 2	And if cycle helmets 7 (be) compulsory, there 8 (be) fewer brain injuries.			
Nurse 1	Yes. This patient was lucky. At least he			
If I had r I'll be ve If my cu	te these sentences in a way that is true for you. nore time, I ry happy if rrent plan is successful, work anywhere in the world,			

5. Match the beginnings and endings of the sentences and

complete the appropriate tense.

1 The patient _____ (go) into shock
2 The operation _____ (be) simpler
3 If we _____ (have) another theatre,
4 If you _____ (change) your dressings

5 Antibiotics _____ (be) more effective 6 If the surgeon _____ (decide) to operate

every day at home,

tomorrow,

a	he(talk) you through the
	procedure.
b	if the patient(be) so overweight.
c	if we (stop) the bleeding quickly!
d	if we (use) them less.
e	we (be able) to handle a lot more
	patients.
f	you (aet) an infection

Common medical adjectives

Adjectives relating to parts of the body, the sens areas of life often use Greek or Latin roots. Comthe expressions with the adjectives below.

	auditory	nasai	sensory
	cerebral	ocular	verbal
	cranial	senile	visual
	cutaneous		
1	a	haemorrhage	bleeding in the brain
2		_perception	the ability to hear
3		_ polyps	abnormal growths in the nose
4		_skills	the ability to use words
5		_ aortic stenosis	a heart condition associated with the elderly
6		_ impairment	a problem with one or more of the senses
7		_ anatomy	the anatomy of the skull
8		_ acuity	the ability to see things clearly
9	the	surface	the surface of the eye
10		_ diseases	diseases of the skin

Reading

Case study - a head injury

•	ase study – a ne	au inj	Jury		
You are going to read the case study of a young fe patient who received brain injuries four months a First, read the first paragraph of the case study an tick () which injuries Katie sustained.					months ag
1	a fractured skull		4	a broke	n leg
2	a broken arm		5	interna	l injuries
3	chest injuries				-
Read the rest of the case study and match the headings with paragraphs A-E.				h the	
1	Cognitive skills				
2	Psychosocial				
3	Communication				
4	Physical functioning	ng and	mol	ility	
5				,	
th	ings. Write a numb	er from	0 to	5(0 = s)	
1	brush her hair				
		ns		-	
-					
-		~			
-			e.		
	Y(P) Fi ti 1 2 3 R(h) 1 2 3 4 5 Ri th it, 1 2 3	You are going to read patient who received First, read the first patick (/) which injuries 1 a fractured skull 2 a broken arm 3 chest injuries Read the rest of the cheadings with paragonal to the rest of the cheadings with paragonal to the communication 2 Psychosocial 3 Communication 4 Physical functioning 5 Personal and self of the cheadings. Write a numbration with things. Write a numbration of the control her hair 2 control her emotions feed herself 4 make decisions 5 recognize what this remember informatics.	You are going to read the carpatient who received brain i First, read the first paragraphtick () which injuries Katie 1 a fractured skull 2 a broken arm 3 chest injuries Read the rest of the case stucheadings with paragraphs A 1 Cognitive skills 2 Psychosocial 3 Communication 4 Physical functioning and 5 Personal and self care Rate how well you think Katthings. Write a number from it, 5 = she can do it without h 1 brush her hair 2 control her emotions 3 feed herself 4 make decisions 5 recognize what things are 6 remember information	You are going to read the case st patient who received brain injur First, read the first paragraph of tick (✓) which injuries Katie sust 1 a fractured skull □ 4 2 a broken arm □ 5 3 chest injuries □ Read the rest of the case study and headings with paragraphs A–E. 1 Cognitive skills 2 Psychosocial 3 Communication 4 Physical functioning and mode 5 Personal and self care Rate how well you think Katie cathings. Write a number from 0 to it, 5 = she can do it without help) 1 brush her hair 2 control her emotions 3 feed herself 4 make decisions 5 recognize what things are 6 remember information	patient who received brain injuries four First, read the first paragraph of the case tick (**) which injuries Katie sustained. 1 a fractured skull

8 understand what people are saying



A Katie is able to reposition herself in bed. She can ambulate 10–15 feet with maximal assistance, but locomotes in a wheelchair. She will need physical therapy to improve coordination and balance. She requires moderate assistance transferring in and out of the bed, chair, and car. Her hearing is adequate, but she has lost the vision in her left eye. She is unable to write, but can hold

a pen, so she will need physical therapy to restore her fine motor coordination and strength.

B She needs assistance for grooming and hygiene care. She will need occupational therapy to help restore her dressing, grooming, and hygiene skills. She needs assistance using the toilet. Katie shows little interest in food, but feeds herself with small bites and has a G-tube for supplemental nutrition. She has moderate problems with both her bladder and bowel management.

C Katie's frontal lobe syndrome has left her unable to produce abstract reasoning, logical concept formation, and planning. She is no longer spontaneous and creative. She does not possess the judgement and insight required to make

a. the fact that a part of the body is unable to do something fully

c. the process of getting rid of solid or liquid material from e.g. the brain

e. relating to or affecting the tough membrane forming the outermost

safe or reasonable social and personal decisions. Her memory has been compromised for both auditory and visual processing of stimuli and retrieval of information. Although she is alert, she cannot sustain concentration sufficiently in order to learn. She is able to count, but has difficulty identifying objects. She can follow simple commands.

D She is more alert and oriented to person and can identify significant relationships. Katie has a basic understanding of simple conversations, but cannot produce or comprehend abstract thoughts. She is capable of expressing her basic needs. She is uncooperative and easily frustrated. She cries easily and shouts obscenities without provocation.

E Katie is emotional and cries frequently for brief periods of time for no particular reason, but is easily redirected. She argues because of her poor ability to overcome frustration and delay gratification. Katie is unaware of the extent of her impairment. It is predicted that she will become depressed and angry as she gains insight. Katie does not initiate recreational activities and entertainment.

CASE STUDY

Katie Martin is a nine-year-old female who was in a car crash. At the scene her Glasgow coma scale was 3. She was intubated and transported by helicopter to hospital. She was taken to the intensive care unit due to her intracranial haemorrhage which 24 hours later resulted in evacuation. She was placed on a ventilator and a tracheostomy was performed. Katie's pre-operative diagnosis was left frontal haemorrhagic contusion and multiple skull fracture. She had a left frontal craniotomy with evacuation of the intracerebral haematoma. The dural tear and skull fracture were repaired. Additionally she suffered lacerations to the liver, face, left eyelid, and a right femur fracture. Four months after the accident, her mental and physical state have improved, as outlined below.

Match the words with their definition

- 1. evacuation
- 2. tracheostomy
- 3. contusion
- 4. dural
- 5. laceration
- 6. reposition
- 7. to ambulate
- 8. grooming
- 9. bowel
- 10.retrieval
- 11.alert
- 12.to sustain

13. comprehend

14.impairment

f. tearing or a deep cut in one's flesh or organ

b. changing position

d. to understand

g. to care for the appearance, getting dressed etc.

of the three coverings of the brain and spinal cord

- h. intestines
- i. mentally perceptive and responsive
- j. the cognitive operation of accessing information in memory
- k. walk from place to place
- I. surgical opening in the neck for the insertion of a catheter or tube to facilitate breathing
- m. to maintain, to keep
- n. traumatic injury of the brain, bruise of the brain tissue