Unit 8

MEDICINE, from Leaches to Lasers

I. Pre-Reading

- 1. What do you do when you are sick?
 Do you visit a doctor? Do you take medicine?
- 2. Are there any traditional medicines in your native country?

What do lasers, leaches, tree bark, and old bread have in common? They are all things that people use to make medicine or to help sick people feel better. Throughout history people have searched for ways to live healthier and better lives. As early as 8000 B.C., people began to experiment with methods of helping sick people. Today we have the newest technology, yet we continue to look for ways to improve medicine and our system of health care.

The history of medicine begins about 10,000 years ago. Scientists have found evidence that prehistoric people experimented with surgery in order to help sick people feel better. Around 2500 B.C., the Egyptians began to treat diseases. They used plants as medicine. They believed that people became sick because the gods were angry with them. In ancient Greece in 419 B.C., a man named Hippocrates realized that people became sick for natural reasons, not because the gods were angry. Many people think of Hippocrates as the first real doctor in history.

During the Middle Age (400-1500 A.D.), a few medical schools and hospitals opened in Europe. Treatment methods were still very simple. Sometimes doctors used leaches to remove "bad blood" from people. Doctors did not understand the human body very well.

Many very dangerous diseases, called plagues, spread through Europe at that time. Doctors could not cure these diseases, and one-quarter of the population of Europe died. Later during the Renaissance, Leonardo da Vinci made drawings of

human body, including all the muscles. These drawings helped doctors greatly. Understanding how the human body works helped doctors learn how to treat sickness and help people feel better. Modern medicine improved greatly after that time.

In the last century many very important discoveries were made in medicine. These discoveries have saved the lives of millions of people around the world. For example, in 1895 a German doctor named Roentgen developed the X-ray machine. The English scientist Sir Alexander Flemming discovered penicillin, the first antibiotic, in 1928. Antibiotics are drugs that fight diseases in the body. Flemming discovered penicillin growing in mold on an old piece of bread! Other great improvements have been made in the technology of medicine. Today doctors can save people's lives by giving them a new heart or a new kidney. Hospitals have large computers and machines that help sick people live better lives.

Medicine today is very modern, but it is also very traditional in some parts of the world. In China and other Asian countries, doctors use acupuncture, a very old method of treating sickness and pain. Acupuncture uses needles to help the human body to fight pain and disease. Doctors have used this method for thousands of years, and some still use it today. It is very successful. These doctors also use natural plants as medicine.

Some people believe that nature all of the cures for human problems. Others believe that technology is more helpful. Together, tradition and technology help people everywhere live better and healthier lives.

II. Working with Vocabulary

A. Focus on the Reading

Choose the best word for each sentence.

antibiotic	experiment	plagues	surgery
cure	fight	prehistoric	technology
discoveries	methods	spread	treat
evidence	natural	successful	treatment

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1. As	early as 8000 B	.C., people began	ı to	with methods of
help	oing sick people	feel better.		
2. Too	lay we have the	newest	, yet w	re continue to look for ways to
im	prove medicine a	and our system of	health care.	
3. Sci	entists have fou	nd	that preh	istoric people experimented with
su	rgery to help sid	ck people.		
4. Arc	und 2500 B.C.,	the Egyptians beg	gan to	diseases. They used plants
as ı	nedicine.			
5. In a	ancient Greece i	n 410 B.C., a maı	n named Hippo	crates realized that people
bec	ame sick for	reas	ons, not becau	se the gods were angry.
6. Dui	ring the Middle A	Ages, treatment _		_were still very simple.
Sor	netimes doctors	used leaches to r	emove "bad blo	ood" from sick people.
7. Ma	ny very dangero	us diseases, calle	ed	, spread through Europe at
that	time.			
8. Do	ctors could not _	the	ese diseases, a	and millions of people died.
9. In t	he last century,	many important _		were made in medicine.
10. Th	ne English scien	tist Sir Alexander	Flemming disc	overed penicillin, the first
		, in 1928.		
11. Ar	ntibiotics are dru	gs that	disea	ases in the body.
12. Do	octors in China h	nave used acupur	cture for thous	ands of years, and some still use
it	today. It is very		·	
B. Fo	cus on New Co	ntexts		
Choos	se the best word	l for each sentend	e.	
	angry	evidence	nature	surgery
	cure	fight	spread	technology
	discovery	method	successful	treatment
1. Sci	entists are lookir	ng for a	for ca	ancer. if they find one, they can
en	d this terrible dis	sease forever.		
2. Last month my friend and I found a great little restaurant not far from school. It was				
a w	onderful	for us.	Now we go the	ere almost every week.

3. Monica's father i	is in the hospital. He had	to fix his bad back.
Next week he ca	in come home.	
4. Car's sister work	ked very hard, saved her money, an	d started her own business. She
is very	now.	
5. Computer	changes all the time. La	st year I bought a new computer,
and this year the	ere is a much better one available.	
6. In order to learn	new words, I written them in my no	tebook and practice using them
in conversation.	Whatd	o you use?
7. David likes to liv	e in big cities. He likes the tall build	lings and all the people. Anna
likes to live in the	e country. She loves birds and trees	s and everything in
8. I read in the new	vspaper that the police found some	at the bank
that was robbed	last week. The robber dropped his	wallet! Now the police know his
name and addre	SS.	
III. Understandir	ng the Reading	
A. Main Idea		
Check (√) the	three main ideas of the reading.	
1. People ha	ave always searched for ways to im	prove life.
2. Prehistori	ic people experimented with surgery	<i>1</i> .
3. Many imp	portant medical discoveries were ma	ade in the last century.
4. Acupunct	cure is a traditional way to treat sick	people.
5. Technolo	gy and tradition are both important լ	parts of medicine and health
care toda	ay.	
B. Comprehension	n Questions	
Answer the que	stions about the reading.	
1. What did the Eg	yptians believe about sickness?	
2. Who was the first	st real doctor? Where and when did	he live?

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3.	. When did medical schools and hospitals open in Europe?				
4.	What are plagues?				
5.	Who drew pictures of the human body, including muscles?				
6.	What happened in 1895?				
7.	What are antibiotics?				
8.	What is acupuncture?				
C.	Details				
	Circle the number of the best answer.				
1.	Around 2500 B.C., the Egyptians began				
	1. to make drawings of the human body		2. to discover new diseases		
	3. to treat diseases with medicine from p	lants	4. to study history		
2.	The Egyptians believe that people became	sick bec	ause		
	1. they ate plants	2. they	were angry with each other		
	3. the gods were angry with them	4. of n	atural reasons		
3.	Hippocrates realized that		<u>_</u> .		
	1. the gods made people sick				
	2. people became sick for natural reasor	ıs			
	3. medicine comes from plants				
	4. he was the first doctor				
4.	During the Middle Ages, one-quarter of the	populatio	on of Europe		
	1. died in war	2. died	from plagues		
	3. moved to America	4. use	d leaches		

5. In 1985, a German doctor named Roer	ntgen
1. invented the X-ray machine	2. discovered penicillin
3. started acupuncture	4. used antibiotics
IV. Word Study	
A. Prefix	
The prefix anti- means "against". For e	example, three common medical words are
antidote, antibiotic, and antihistamine. An	antidote is used against poisons, an
antibiotic works against bacteria, and an	tihistamine works against histamines, body
chemicals that form because of allergies.	
Guess at the meaning of the following wo	ords.
1. antisocial	
2. antiwar	
3. antigovernment	
4. antiestablishment	
5. antiseptic	
B. Suffix	
Many nouns in English end in –ist . The	e suffix – ist means "a person who does
something".	
Look at the examples: A chemist is a p	erson who works in chemistry.
Complete each sentence with a noun that	t ends in the suffix -ist. The words in bold
type are related to the nouns you should	use. Make the nouns plural if necessary.
1. Two teams are playing in the final gam	nes for the World Cup. One of these two
will win the competition	on.
2. Some country musicians are excellent	They can sing and play
the guitar at the same time.	
3. Pablo Picasso was a famous	. You can see his art in museums all

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over the world.

4. Carol is interested in animals. She studies zoology at the university. She wants to					
become a _		·			
5. Sumalee ha	5. Sumalee has studies piano all of her life. She is going to be a famous				
one day.					
C. Vocabulary: a word group					
Underline o	ne word on eac	th line that doe	s not belong	to the others.	
1. rabbits	goats lead	hes cattle			
2. supermarket restaurant department store bookstore					
3. century	millennium	year	coast		
4. difficult	uncomplicated		simple	easy	
5. ocean	river	canal	island		
6. disease	cure	sickness	plague		
7. regular	usual	ordinary	similar		
