

diseases

What was

Subject: History Topic: Modern Medicine

Year Group: 10



Beckfoot								
1. Understanding of Disease								
1	What still needed to be learned?	1.	By the 20 th Century, Geri Theory had been proven accepted as the cause of diseases All the focus however, we diseases that were cause bacteria					
2	Under- standing genetic	1.	In 1953, scientists Crick a Watson discovered the structure of DNA and ho					

passed from parents to

children

vas on ed by and w it

and

1. In 1990, the Human Genome

The Discovery of Penicillin The developmen t of

penicillin

2. Treatments

1

2

- During WWI, doctor Fleming found that wounds infected with bacteria were not healed by antiseptics 2. Back in Britain, he worked on a way to deal with these bacteria 3. In 1928, Fleming discovered penicillin by chance when he left a petri dish containing mould while he went on holiday He did further experiments and published his
 - 1. In 1938, scientists Florey and Chain began work on developing penicillin 2. They received only a £25 grant from the government 3. They proved penicillin could be used to fight infection in humans England didn't have the capacity to mass produce penicillin, but the American government were

findings in 1929, but it got little attention

- willing and ready to develop the treatment The Impact 1. Penicillin was the first treatment to be mass of penicillin produced. and the 2. It led to more interest in producing medicines
- pharma-Pharmaceutical companies began to pay for researchers to discover and trial new antibiotics ceutical 4. This drug manufacturing industry becoming industry successful also meant money was being put into more research

eating and work management

What are 1. Some drugs were developed that had unknown side effects – e.g. Thalidomide was developed as a the problems of morning sickness tablet but it caused deformities the pharmain babies 2. As stronger antibiotics are produced, bacteria ceutical industry? develop immunity to the drugs – these are known

as superbugs

Change in 1. Doctors have begun to focus on preventing focus disease rather than treating it. 2. They encourage a healthier lifestyle e.g. healthy

Key word Definition A medicine that kills bacteria and Antibiotic infection **AIDS** A virus that stops the immune system from working properly DNA The genetic code that decides the unique features of each species

Radiotherapy Shellshock						
		A treatment using x-rays or other forms of radiation A term used in WWI to describe post traumatic stress disorder				
2.	Treatments					
6	Alternative treatments	 Some people have come to see pharmaceutical companies and drug treatments as harmful Unproven alternatives like homeopathy have been suggested by some Others suggest more traditional remedies e.g. acupuncture and herbal remedies 				
7	How did World War affect treatments?	 World War I and II played a part in the discovery and development of penicillin WWI also led to the discovery of shellshock This was a big step forward in acknowledging mental health and providing treatments 				
8	How has technology affected treatments?	 Technology has allowed scientists to continue to develop new drugs After Thalidomide was banned, a more strict scientific process was put in place to ensure medicines were safe The discovery of radiation by Marie and Pierre Currie led to the creation of radiotherapy to treat cancer Since the 1970s, chemotherapy has been used to treat cancer if radiotherapy is unsuccessful 				

	the Human Genome Project?	Project was set up world wide 2. It's aim was to work out how each part of DNA affects the body 3. This helped scientists to find ways of treating specific genetic illnesses						
Ke	Key dates							
1	1906-1914	Liberal Reforms						
2	1914-1918	World War One						
3	1928	Fleming publishes his article about penicillin						
4	1939-1945	World War Two						
5	1942	The Beveridge Report is published						
6	1948	The NHS established						
7	1967	The first successful heart transplant						
8	1980	The World Health Organisation declares smallpox eradicated						



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3. Surgery		4. Public Health			Key	word	Definition				
1 What impact did			(-rays were made more reliable and nobile x-ray units (petites curies) were	1	Why did public health		In 1899, the British government discovered that 40% of its young male	An	aesthetic	A substance the feeling pain	at stops a patient from
	WWI have on surgery?	2.	invented. Blood transfusions had been possible since 1901, but during WWI, it was discovered that sodium citrate could be used to store blood over a long period of time. Harold Gillies (an army surgeon) worked		improve from 1900?	population were unfit to fight 2. Factory owner Rowntree made a study showing more than 25% of people in York were living in poverty	Lib	eral	The political pa 1916	rty in power from 1905-	
							• • • • • • • • • • • • • • • • • • • •	Re	form	To make chang something	es in order to improve
		4.					found 35% were living in poverty in East London	W	elfare State		ich the government takes Ibeing of its people
	5.	specializing in facial injuries The Keller-Blake leg splint was developed, which held broken bones in place while				They argued the government should care for their people	Ke	Key Individuals			
2	What	1.	they healed.	2	What changed?		In 1906 a new Liberal government was elected They had promised to tackle poverty	1	Fleming	Accidental	ly discovered penicillin
	impact did WWII have on	2.	surgery further through his experiments on the "guinea pig club" at Queen Victoria's Hospital in London. Blood transfusion was developed and by	3	How did the Liberal	1.	1906 – Free school meals act 1907 – Births had to be reported and	2	Florey & Chain	Developed an antibio	the use of penicillin as
surgery?		1945 the Blood Transfusion Service was efficient at storing and transporting blood American surgeon Dwight Harken began		government improve public health?	3.	health visitors visited new mothers 1908 – Old-age pensions introduced for over 70s who didn't have enough to live	3	Crick & Watson	Discovered	AND Ł	
			removing bullets and shrapnel from hearts, developing the first heart surgery.			4. 1 h h 5. 1 s 6. 1 n 7. 1	 on 1909 – laws to improve the standard of house building 1911 – National Insurance Act provided sick pay 1912 – Clinics set up to provide free 	4	Gillies	Developed	the first plastic surgery
3	technology helped	develo and lor	developed, which allowed more control and longer operations					5	Rowntree	Wrote a re in 1901	port on poverty in York
	surgery?		 The first heart transplant was carried out in South Africa in 1967 and this led to more ambitious transplants The heart/lung machine allowed blood circulation during surgery CT scanners can be used to make 3D images of the inside of the body MRI scanners can be used to examine the brain and nerves and can detect cancer cells Ultrasound scanners can assess bloodf low Keyhole surgery means that surgery is quicker to heal from Robotic surgery can be used to be more 				medical treatment for children in school 1919- Housing Act provided 'Homes for Heroes' for returning soldiers	6	Booth		eport on poverty in om 1889-1903
		5. 6. 7.		4	there improvement after WWII?	1.		7	Beveridge	governme	eport stating the nt should be responsible health in 1941
						3.	report recommending a Welfare state including: a National Health Service and Universal national insurance 3. The Labour Party won the 1945 election	8	Bevan		nister who planned and NHS in 1948
		ŏ.	precise				promising to act on Beveridge's report				



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4. Public Health – The NHS							
1	The creation of the NHS	 The Labour Health Minister was Aneurin Bevan He introduced plans for the NHS to Parliament and they passed in 1948 					
2	What did the NHS provide?	 The NHS spent money training staff GPs working for the NHS provided free care and advice The government took control of hospitals and improved them Hospitals provided maternity care, child welfare and ambulances Free dentistry, opticians and medicines Vaccination programmes were organised The NHS carried out medical research 					
3	Why was there opposition to the NHS?	 Doctors feared they wold lose their independence and private income Some people still believed in Laissez-faire Some local councils and charities didn't want the government to take over their hospitals 					
4	What's the NHS like today?	 It has grown – there are 10x as many doctors as there were in 1948 It costs the country a lot of money – x12 more than in 1948 There are some charges for patients There are fewer hospital beds The NHS focuses on prevention of health problems 					
5	Impact of the NHS	 Until 1948, 8 million people had never seen a doctor before NHS vaccination schemes have eradicated some illnesses like Polio Babies are less likely to die in infancy People live 13 years longer than in 1948 					

Key factors in the Modern period						
1	War	 World Wars created new injuries that fueled the development of new surgical techniques World Wars also led people to demand a better standard of life after the sacrifices made during war time 				
2	Individuals	 Individuals continued to make scientific advances Individual social reformers made the government aware of the suffering of the people and demanded change 				
3	Government	 The government had to respond to the will of the people as more and more people gained the right to vote The Liberal Government broke the government policies of Laissez-faire Government played the biggest part in improving public health with the creation of the welfare state Governments invested money in new developments 				
4	Science and technology	 Developments in science and technology allowed scientists allowed scientists to create new drugs and treatments Science and technology also continued to develop understanding of conditions that were genetically caused Advances in technology made modern surgery more accurate and safe 				
5	Chance	1. Fleming's discovery of penicillin was by chance				
6	Communication	 Communication is much better in the modern era, which allows information on healthy living to be more easily circulated Better communication also allows scientific discoveries to be accessed around the world 				