

# **History Knowledge Organiser Britain: Health and the People 4. Modern medicine.**

## Key individuals

Alexander Fleming, Howard Florey, Ernst Chain, Karl Landsteiner, Wilhelm Rontgen, Albert Hustin, Harold Gillies, Archibald McIndoe, Dwight Harken, William Beveridge, Aneurin Bevan - Minister of Health who introduced the NHS. Christian Barnard, Francis Crick and James Watson - discovered DNA, Roy Calne - anti rejection drugs.

### **Treatment of disease**

## Key dates

In 1928 Alexander Fleming was working to find a way to kill the staphylococcus germ. He found penicillin by chance after leaving petri dishes out whilst on holiday. When he came back he noticed that a mould had grown which killed the bacteria. He published his findings about the first antibiotic but did nothing else with it. Ernst Florey and Howard Chain read the article and asked the British government for funding but got only £25. They tested it on policeman Albert Alexander who had an eye infection. It worked until they ran out of penicillin. When America joined WW2 the gave \$80 million to develop and mass produce penicillin. By the time of the D-Day landings there was enough to treat the casualties. Other antibiotics followed; streptomycin, tetracycline, mitomycin. In recent years however there are antibiotic resistant bacteria due to overuse including MRSA. Today there are also a variety of alternative treatments including acupuncture, homeopathy and aromatherapy. Vaccines for diphtheria, whooping rubella, MMR and HPV are now available for all.	1895	X-ray
	1899	Boer War
	1906	Liberal Reforms, Free School Meals
	1907	School medical service
	1908	Children and Young Person's Act, Old Age Pension
	1000	First isk seators
n with new injuries caused by new weapons. X-rays had been discovered in 1895 by Wilhelm Rontgen but portable nel and look for broken bones without cutting people open. The Army Leg Splint was designed to put broken bones in	1909	First job centres
ere common so surgeons cut away the infected flesh and soaked the wound in saline. Shell shock was identified during treated as cowards. Today it is known as PTSD. Karl Landsteiner had discovered blood groups which helped doctors	1911	National Insurance Act
bert Hustin discovered that glucose and sodium could stop it clotting on contact with air meaning it could be bottled. In onal Blood Transfusion Service opened. Harold Gillies developed plastic surgery to help men who suffered severe facial ated over 5000 servicemen. In WW2 his cousin Archibald McIndoe did further work on faces and hands. Heart surgery operated on 134 hearts with no fatalities. Since the war there have been kidney, heart, lung, liver and facial transplants. closporine to stop organ rejection. DNA and stem cells are being mapped and used to grow new organs. Public Health	1914 -18	WW1 Albert Hustin and storage of blood
	1921	Over 5000 patients had plastic surgery
	1928	Penicillin discovered
ain. This was highlighted by the Boer War of 1899-1902. 40% of the men who volunteered were not fit for military service ted illnesses. This was supported by the work of Booth and Rowntree. Booth studied London and created a map showing In In his book 'Life and Labour of the People in London' he wrote that 30% of the population lived in poverty despite many covered that 28% of the population were in poverty but also that this could change during their lifetime. This he displayed government as did rivalry from nations including Germany and the USA. The new political party Labour was aimed at	1942	Beveridge Report
	1948	NHS introduced
	1953	DNA discovered
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# Impact of war and technology or

WW1 was on a scale previously unseen with new injuries caused by new weapons. X-rays had been di machines could help doctors find shrapnel and look for broken bones without cutting people open. The Arr traction. Infections such as gangrene were common so surgeons cut away the infected flesh and soaked th the war after the suffers originally being treated as cowards. Today it is known as PTSD. Karl Landsteiner he complete blood transfusions. In 1914 Albert Hustin discovered that glucose and sodium could stop it clottin 1938 advances in storage mean the National Blood Transfusion Service opened. Harold Gillies developed pla wounds during WW1 by 1921 he had treated over 5000 servicemen. In WW2 his cousin Archibald McIndoe progressed through Dwight Harken who operated on 134 hearts with no fatalities. Since the war there have These became more successful with cyclosporine to stop organ rejection. DNA and stem cells are being m

### **Public Health**

By 1900 poverty was still an issue in Britain. This was highlighted by the Boer War of 1899-1902. 40% of the mostly due to poor diet and poverty-related illnesses. This was supported by the work of Booth and Rownth the distribution of poverty across London. In his book 'Life and Labour of the People in London' he wrote th working. In York Seebohm Rowntree discovered that 28% of the population were in poverty but also that the in his poverty line. These concerned the government as did rivalry from nations including Germany and the working people so something had to be done to win working votes. The Liberal Party came to power in 190 School medical service, 1908 - Children and Young Persons Act, The Old Age Pension, 1909 - first job centre a safety net for children, the old, the sick and the unemployed. WW1 and WW2 highlighted that there was said that people had the right to be free of the 'five giants' that could ruin their lives. Disease, want (need), conditions). After the was the Labour Party set up the Welfare State to care for people 'from the cradle to the completely free health care. A weekly child care payment, benefits for the very poor and slum clearance wer £116 billion. In the C21st the government continues to try and improve health - 2006 a smoking ban was pa

## **KEY VOCABULARY/TERM**

staphylococcus, penicillin, bacteria, antibiotics, x-rays, shrapnel, splint, infection, gangren surgery, transplant, cyclosporine, organs, Boer War, poverty, Liberal Reforms, Free sch National Insurance Act, unemployed, disease, want, ignorance, squalour, Welfare State, N

# History Knowledge Organiser Britain: Health and the people 4. Modern medicine

## How useful is Source... to a historian studying... 8 marks

How useful is this source to a historian studying the impact of Liberal reforms? Explain your answer using Source A and your contextual knowledge. Source A Graph of the impact of Free School Meals

### Explain the significance of... 8 marks

Explain the significance of the individual sciences - physics, chemistry and biology - for medical progress in the twentieth century.

Explain the significance of the Liberal social reforms for the prevention of disease.

#### Compare... In what ways were they similar/different? 8 marks

Compare the medical advance in WW1 and WW2. In what ways were they different? Compare the Liberal Reforms and the Welfare State. In what ways are they similar? Compare the work of Louis Pasteur and Florey and Chain. In what ways were they different?

### Factor question 16 marks 4 SPaG

Has science been the main factor in the development of penicillin? Has war been the main factor leading to improvements in surgery? Have governments been the main factor in the development of public health?

### KEY VOCABULARY/ TERMS - Tier 2 use these in your answers to the above questions

benefit, consist, create, data, economy, establish, factor, income, individual, labour, legislate, method, percent, policy, proceed, research, respond, significant, sources, assist, consequence, impact, considerable, contribute, ensure, fund, outcome, physical, publish, react, scheme, shift, technology, attitude, despite, job, statistics, capacity, enable, facilitate, liberal, medical, objective, psychological, welfare, author, ignorance, motive, compile.