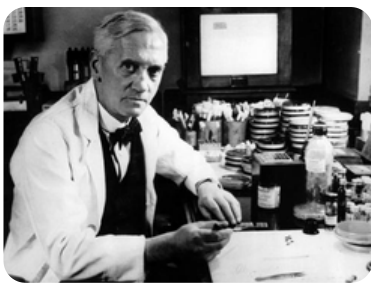


Developments in Medicine



Alexander Fleming

In 1928 Fleming left a window open in his lab and bacteria had been killed by a mould - penicillin

Margaret Hutchinson Rousseau

Developed technology to mass produce penicillin

Florey & Chain

They were given funding by government to produce penicillin for war

In 1941 USA entered war and gave \$80 million to fund research

By 1943 penicillin was mass produced

Blood Transfusions

First performed by **Blundell** in 1818

In 1894 **Wright** found chemicals which prevented it from clotting

In 1901 **Landsteiner** discovered blood groups

Plastic Surgery

Harold Gillies set up a ward at Queen Mary's Hospital in 1917 to treat patients with facial injuries and pioneered skin graft techniques

Transplant Surgery

Christiaan Barnard performed the first heart transplant surgery in South Africa in 1967

X-Rays

Discovered by **Röntgen** in 1895

Used in hospitals from 1896

Not fully understood

Marie Curie helped get 200 X-ray units to hospitals and 20 mobile X-ray units during WWI to help detect internal injuries



Modern Surgical Methods

Marie Curie's work on radiation helped to create successful treatments of cancer
Laser Surgery can be used on eyes and cancer treatments
Keyhole surgery uses microscopic cameras

4. MODERN MEDICINE



Alternative Medicines that are not considered mainstream include:

- Acupuncture
- Hypnotherapy
- Herbal remedies
- Yoga



Bevan (Minister of Health) launched creation of NHS in 1948 which made healthcare free at the point of delivery

Booth and Rowntree published reports to demonstrate need for a welfare state

Second Boer War in 1899 revealed 1/3 men who volunteered were unfit to fight

NHS

Liberal reforms were introduced from 1906 such as 1908 **Old Age Pensioners Act** and 1911 **National Insurance Act**

Antibiotic Resistance

- Some bacterium such as **MRSA** has become resistant to antibiotics
- Antibiotic resistance can be caused by patients not completing full course or overuse of antibiotics



Beveridge conducted a report in 1942 that recommended government action for the poor

