

1.1 The historical context of medicine in the early 20th century

For this topic, you must be aware of 3 major medical developments by 1900:

1. The move towards aseptic surgery



Joseph Lister first used carbolic acid to prevent infection in surgery in 1865. This paved the way for most operations to be aseptic (free from contamination from bacteria) by 1900 because:

- Medical staff were expected to wash their hands and wear rubber gloves and gowns
- The air was **sterilised** by being pumped over the heating system, while steam was used to sterilise surgical instruments



2. The development of x-rays (an image of the inside of the body using radiation)

The discovery of x-rays by German physicist Roentgen was accidental, but **radiology** departments quickly opened in hospitals to explore the potential for x-rays to carry out diagnosis before operations - this helped medical treatments on the Western Front during WWI (see right).



The use of x-rays was not hindered by the early dangers and problems:

- The amount of radiation released in early x-rays was 1,500 the amount released today. It could result in hair loss and severe burns.
- Taking a x-ray was a lengthy process, plus the early machines were large, cumbersome and broke easily.

3. The development of blood transfusions

Aseptic surgery and x-rays allowed for safer and more complex surgical operations, but these were pointless if the patient died from blood loss (which was common). Attempts at **blood transfusions** in the early 1800s had mixed results, even by 1900, blood could still not be stored, so the **donor** (giver) of blood had to be directly connected to the **recipient**.



Attempts to solve other transfusion problems:

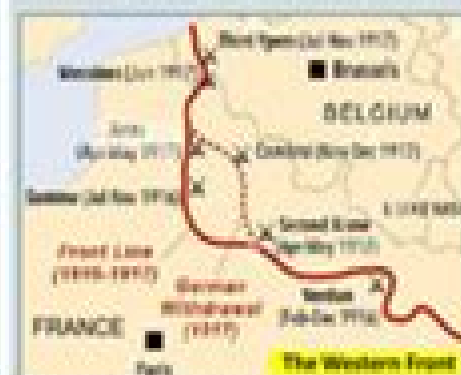
- Chemicals like sodium bicarbonate were used to prevent clotting of blood (which could block the tubes used for transfusions), however side effects like convulsions could result.
- The discovery of **blood groups** by Karl Landsteiner in 1901 reduced the risk of the recipient rejecting the donor's blood.
- Aseptic surgery (see above) largely solved the issue of infection from unsterilised equipment.

1.2 The context of the British sector of the Western Front

You need to understand how the course of WWI impacted medical developments.

From 1915, both British and German forces developed a network of trenches to protect their positions. This defensive measure led to:

- The war grinding to a stalemate, so new tactics like gas attacks were used to break it.
- A lot of fighting taking place on former farmland, exposing wounds to significant bacteria due to fertiliser in the soil.
- Soldiers risking trench foot (see below) by standing in cold, stagnant water for hours.



The battles at Ypres, the Somme and Arras produced huge **casualty** rates on a scale never seen before, slowing down medical treatment. The first use of tanks at the Somme was largely unsuccessful and added to the high casualties, but they did improve over time.

Tunnels were used for planting mines and launching surprise attacks, the tunnels under Arras even had a hospital ("**Thompson's cave**"). Death rates for tunnel diggers were high.

The damage to the land and roads hindered the transportation of the injured for treatment by stretcher bearers (especially in the wet and muddy conditions at Ypres), and worsened injuries. Over time, publicly funded motor ambulances, trains, barges & ships were used.

1.3 Conditions requiring medical treatment on the Western Front

MEDICAL CONDITIONS

Trench foot - Painful swelling feet, could lead to **gangrene**, soldiers ordered to change socks twice daily to keep feet dry.

Trench fever - flu-like symptoms (spread by lice), a major issue as it affected 500,000 British soldiers.

Dysentery - Poor hygiene led to severe diarrhoea and dehydration.

Shell shock - essentially we call this **PTSD** today. Lack of understanding resulted in poor treatment & accusations of **cowardice**.



WOUNDS

58% of wounds on the Western Front were caused by **shells and shrapnel**. 39% of wounds were caused by bullets - machine guns were introduced in WWI and were devastating; bullets directly carried deadly bacteria into wounds like **tetanus** and **gas gangrene**.



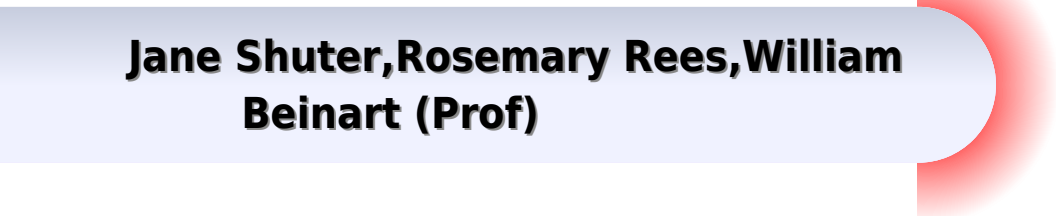
GAS ATTACKS

There were 3 types of poison gas used during WWI: **Chlorine**, **Phosgene**, and **Mustard**. Gas caused suffocation, temporary blindness and terrible blisters. It led to panic, but British deaths were relatively low (8,000) as it was an unreliable method and gas masks proved effective during the war.



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**Jane Shuter, Rosemary Rees, William
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