

Factors Individual Genius, War, Technology

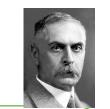


Ignaz Semmelweis 1818-1865

Key Discovery: Put forward the idea of ASEPTIC Surgery **Before:** Doctors rarely washed hands or instruments. A bloody apron was the sign of a good doctor.

After: ASEPTIC surgery was accepted and is still used today, operating theatres even have filtered air to keep things clean

During: He worked out that Doctors who went to the morgue then saw patients were likely to kill their patients. He was unpopular and his ideas were not accepted. Surgery



Opposition

There was much opposition to anaesthetics in particular for many reasons:

- Religion: people believed that women should give birth in pain as this is what God ordered in the bible.
- Chloroform was unsafe and untested, no-ne could explain why it worked.
- The army in particular felt that pain should be felt to encourage men to fight to stay alive.

These arguments were overshadowed when Queen Victoria used Chloroform I the birth of her 8th child.

There was some opposition to antiseptics too. This was generally because people did not completely sterilise instruments and their hands so they did not see the results.

Blood Transfusions still have opposition from religion today. Jehovah's Witnesses will refuse blood transfusions as it is against the teachings in the bible.

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Joseph Lister

1827-1912

Key Discovery: ANTISEPTIC

Surgery, through Carbolic

Spray.

After: His ideas were mostly accepted but it took up to 20 years for them to be fully used nationwide. People started to adapt his ideas and called for the use of gloves and different gowns for surgery

During: He worked with his ideas and cut his death rates from 30%-3%. He later started to use Aseptic surgery and steam to sterilise his instruments.

Karl Landsteiner 1868-1943 Key Discovery: Blood

Groups Before: Work had been done

on Blood Transfusions before but these were mostly unsuccessful as people did not understand the body's immune response.

After: His work was taken forward into WW1 and 2 where the storage of the blood improved greatly, allowing for the setting up of the first blood banks in 1938 **During:** His work was accepted and used carefully.