# Kilted English
LANGUAGE LEARNING

## Scottish Medical Innovations | E13 The Scottish English Podcast

| Transcript | Vocabulary and grammar structures you should know. *= meaning used in the podcast if there is more than one meaning. | Collocations, idioms and other useful phrases. |
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**Claire | Kilted English:**

Throughout history, Scotland has been a land of innovation, producing scientists, engineers, and doctors whose discoveries have saved millions of lives.

From antiseptics to anesthesia, Scottish medical pioneers have shaped the way modern medicine is practiced today. But their contributions didn't stop in the 19th or 20th centuries. Scotland continues to lead in medical research and innovation today.

Hello and welcome to the Scottish English Podcast, where you can improve your English while learning about Scotland's history and culture.

I'm Claire, and today we are diving into some of Scotland's greatest contributions to medicine.

But before I get started, remember you can download the transcript of this episode, which contains definitions as well as collocations and

Innovation (noun)
/ˌɪnəˈveɪʃn/
- The creation or introduction of something new (such as an idea, method, or device).

Discovery (noun)
/dɪˈskʌvəri/
- The act of finding something that was not known before.

Pioneer (noun)
/ˌpaɪəˈnɪə(r)/
- A person who is among the first to do something or explore new areas.

Contribution (noun)
/ˌkɒntrɪˈbjuːʃn/
- To give or add something (such as ideas, time, or effort).

- Drive innovation
- A culture of innovation
- Technological innovation

- make a discovery
- scientific discovery
- groundbreaking discovery

- medical pioneer
- pioneering work
- pioneering research

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| some idiomatic phrases for some of the more challenging words.<br><br>And also do subscribe and hit that notification bell so you know when the next episode of the Scottish English Podcast comes out.<br><br>From <u>lifesaving</u> antiseptics to cutting edge medical research, Scottish innovators have transformed healthcare as we know it.<br><br>Let's explore their <u>groundbreaking</u> work.<br><br>Joseph Lister and Antiseptics<br><br>One of the most important medical discoveries in history came from a Scottish surgeon named Joseph Lister.<br><br>In the 19th century, <u>surgery</u> was incredibly risky. Infections were common, and many patients died after operations. | Lifesaving (adjective)<br>/ˈlaɪf seɪvɪŋ/<br>   - Capable of saving lives.<br><br>Groundbreaking (adjective)<br>/ˈɡraʊndbreɪkɪŋ/<br>   - New and innovative; significantly different from what came before.<br><br>Surgery (noun)<br>/ˈsɜːdʒəri/<br><br>   - A medical operation<br><br>Sterilise (verb)<br>/ˈsterəlaɪz/<br>   - To clean something so thoroughly that all | • lifesaving treatment<br>• lifesaving surgery<br>• lifesaving equipment<br><br>• groundbreaking research<br>• groundbreaking discovery<br>• groundbreaking technology<br><br>• undergo surgery<br>• surgical procedure<br><br>• sterilise instruments<br>• sterilise equipment |

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| But Lister, inspired by the work of Louis Pasteur, introduced antiseptics to <u>sterilise</u> surgical <u>instruments</u> and wounds.<br><br>His methods drastically reduced <u>infections</u> and <u>revolutionised</u> surgical procedures worldwide.<br><br>James Young Simpson and anesthesia.<br><br>Another Scottish medical pioneer was James Young Simpson, the man who discovered chloroform as an anesthetic.<br><br>Before anesthesia surgery was a brutal experience. Patients had to endure <u>excruciating</u> pain during operations.<br><br>In 1847, Simpson found that using chloroform could safely put patients to sleep, making surgery much less <u>traumatic</u>. His discovery changed surgery forever.<br><br>20th Century <u>breakthroughs</u>. | germs are removed.<br><br>Instrument (noun) (in a medical context)<br>/ˈɪnstrəmənt/<br>   - A tool used during medical procedures.<br><br>Infection (noun)<br>/ɪnˈfekʃn/<br>   - The presence of harmful bacteria or viruses in the body.<br><br>Revolutionise (verb)<br>/ˌrevəˈluːʃənaɪz/<br>   - To completely change something, especially in a positive way.<br><br>Excruciating (adjective)<br>/ɪkˈskruːʃieɪtɪŋ/<br>   - Extremely painful or intense.<br><br>Traumatic (adjective)<br>/trɔːˈmætɪk/<br>   - Emotionally or physically distressing.<br><br>Breakthrough (noun)<br>/ˈbreɪkθruː/ | <ul><li>surgical instrument</li><li>sterilised instruments</li></ul><br><ul><li>prevent infection</li><li>treat an infection</li><li>bacterial infection</li></ul><br><ul><li>revolutionise healthcare</li><li>revolutionise the industry</li><li>revolutionary idea</li></ul><br><ul><li>excruciating pain</li><li>excruciating detail</li></ul><br><ul><li>traumatic experience</li><li>emotionally traumatic</li></ul><br><ul><li>medical breakthrough</li><li>scientific</li></ul> |

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| Scotland's Medical breakthroughs didn't stop there.<br><br>Alexander Fleming, who was born in Ayrshire, discovered penicillin in 1928, leading to the discovery of antibiotics. His work has saved <u>countless</u> lives and remains one of the greatest advancements in medical history.<br><br>And let's not forget John McLeod, the Scottish scientist who played a key role in the discovery of insulin, a treatment that has transformed the lives of people with diabetes.<br><br>Modern Scottish medical leaders.<br><br>Scotland's contributions to medicine continue to the modern era.<br><br>Research in cardiovascular medicine has significantly advanced our understanding of high blood pressure and heart disease, leading to better treatments and prevention strategies.<br><br>And work in dementia care has helped improve the quality of life for people living with | - A significant or sudden advance in knowledge or technique.<br><br>Countless (adjective)<br>/ˈkaʊntləs/<br>- Too many to count; very numerous. | breakthrough<br>● major breakthrough<br><br>● countless lives<br>● countless hours<br>● countless opportunities |

| Alzheimer's and other <u>neurodegenerative</u> conditions.<br><br>From antiseptics to anesthesia, from antibiotics to insulin, Scottish medical innovators have made an extraordinary impact on healthcare. And with modern researchers continuing to <u>push the boundaries</u> of medicine, Scotland's legacy of innovation is far from over.<br><br>That's all for today's episode of the Scottish English Podcast.<br><br>If you enjoyed the show, be sure to subscribe and leave us a comment. What did you learn today?<br><br>And if you want to keep improving your English, check out the transcript in the show notes. See you later. | Neurodegenerative (adjective)<br>/njʊərəʊdɪˈdʒenərətɪv/<br>  -  Related to diseases that involve the gradual loss of function in the brain or nervous system.<br><br>Push the boundaries (idiom)<br>  -  To go beyond the limits of what is thought to be possible. | • neurodegenerative condition<br>• neurodegenerative disease<br><br>• push the boundaries of science<br>• push the boundaries of innovation |
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