

# MEDICAL MARVELS THAT SAVED THE WORLD



The Hypodermic Needle was first discovered by the ancient Greeks and Romans. A thin, hollow tube, it was used to inject fluids into the body. In modern day medical practices, the Hypodermic Needle is used in conjunction with a syringe to either inject or extract fluids, medicines and blood in the human body with little pain and a low risk for infection. It exemplifies excellent design because it has very high precision in its needle tips and the tool is tailored to match the specification of a patient. A significant way to measure the success of an invention is its ability to match the needs of the user. Because of this unique manufacturing process, it is built to fit the needs of every individual.



X-Ray Imaging is a profound medical invention that is used by doctors and dentists to study our bones and our teeth. X-Rays are used in radiotherapy as well, to stop cancer cells from growing and multiplying. This demonstrates strong design because it is able to emit radiation on command. While this design is complicated, it is a complete breakthrough in the medical community, producing results that are controlled and accurate. It fully meets the expectation of the user and displays the required imagery and information.

The Cardiac Pacemaker is a small device that can be implanted in the human body, it regulates the human heartbeat and has saved millions of lives. The basic design consists of a portable machine that is composed of two poles. One section is covered in a solution of salt and the other has a needle that is inserted into the cardiac chamber of the patient. This design is impressive because it is an intricate system that is compacted into a very small size, in addition to the fact that modern pacemakers have a powerful endurance, with their batteries running for twenty years. As a device it is a good investment because it serves its purpose in a convenient manner and is long lasting, satisfying the needs of the consumer.

