

Manufacturing artificial blood vessels to limit surgery 7 times for children with heart defects

Children with heart defects must experience an average of 7 heart surgeries to replace the blood vessels that lead in the heart, causing much cost as well as pain for the family and the child itself. And a new blood vessel has just been launched that promises to apply successfully in the human body in the future.

Children with heart defects must experience an average of 7 heart surgeries to replace the blood vessels in the heart that are costly as well as pain for the family and the child itself. And a new blood vessel has just been launched that promises to apply successfully in the human body in the future.

Previously, children with heart defects must have surgery to install blood vessels in the heart to help the heart pump sustainable blood throughout the body. However, a problem is that when children reach adulthood over time, the heart grows in size, which means that these blood vessels are different in size and operability.

This has caused children with moderate heart defects to undergo 7 painful surgeries to replace the blood vessels in the heart with a larger size that is more suitable. This is the pain as well as the cost of debt for children with this disease.

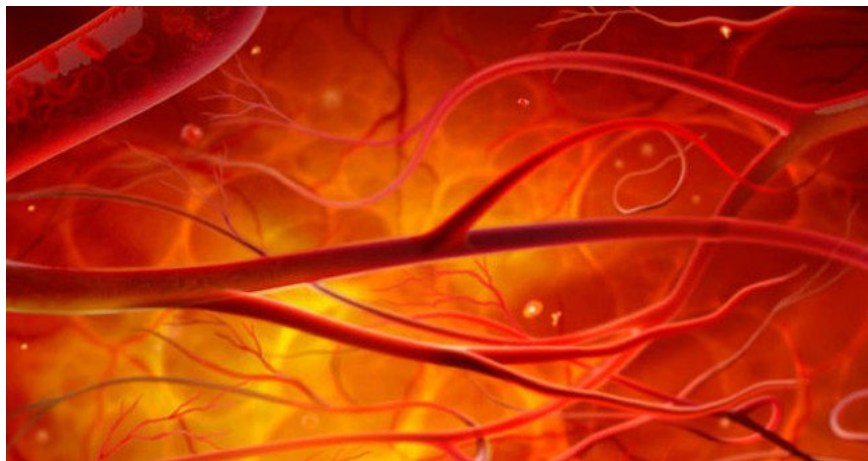


Photo source: Internet.

Faced with this situation, a group of scientists led by researcher **Robert Tranquillo** of the University of Minnesota conducted a **new generation of blood vessels** .

This type of tube is made of fibroblast cells, which are then implanted in the heart, injecting nutrients as well as protein-forming tubular proteins. After a period of time, the cell layer was fixed into a duct form and performed an extremely good blood-conducting task in the heart. And this test was done on a 5-week-old lamb body.

A long time later, under high-resolution specialized ultrasound technology, this new generation of blood transducer groups was completely elastic and developed to the same size of the heart and worked very well. Due to the ability to regenerate the size of fibrous cells and nourishing nutrients as well as the adherent adhesive protein gel.

This blood vessel in the heart has only been successfully tested on sheep's body and a problem is that it is this duct that will be grafted on the human body and forced to find a solution. Next decision. This is, however, an extremely important study that opens new ways for children with heart defects in the future.

Huynh Dung (According to Natureworldnews)

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