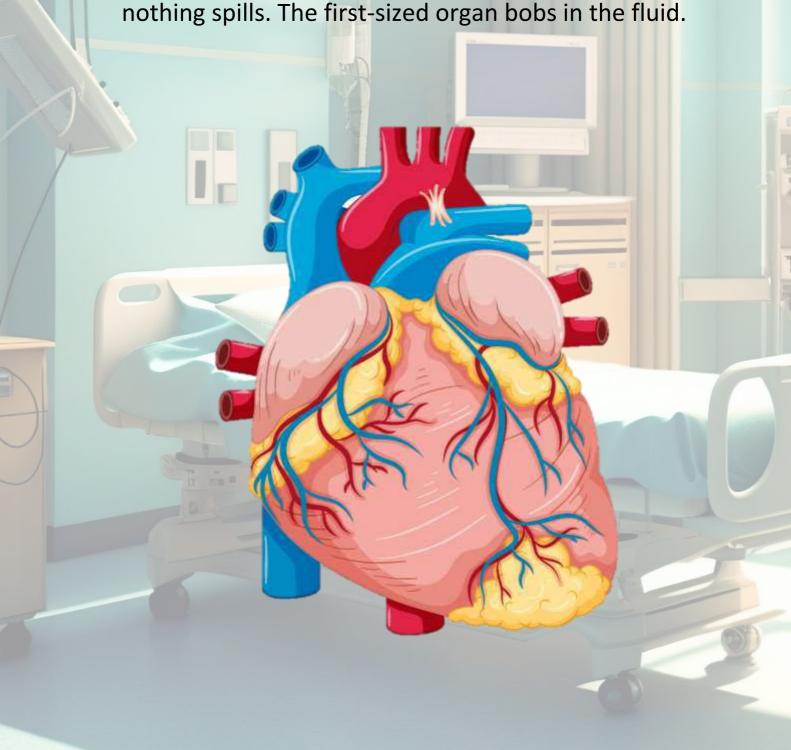




Eleven, Twelve, Thirteen. Doctor Christiaan 'Chris' Barnard counts each of the 31 steps he takes as he walks carefully between the hospital's Operating Theatre B and Operating Theatre A. In a bowl filled with a special saltwater mixture, he carries the first human heart ever to be transplanted into another human being.

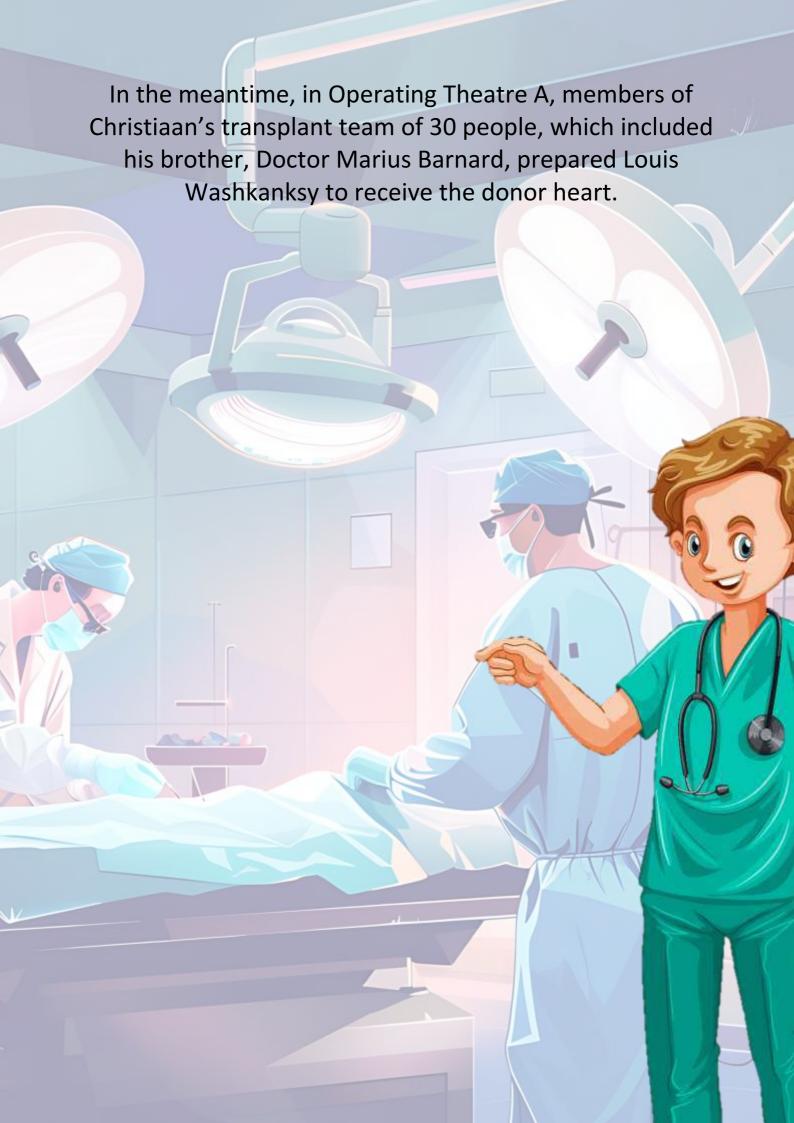
Christiaan glances again at the bowl, to make sure that nothing spills. The first-sized organ bobs in the fluid.





The first part of the procedure involved carefully removing the heart from the lifeless body of the donor. She was Denise Darvall, a 25-year-old woman from Cape Town who was hit by a car. She suffered such severe head injuries that her brain no longer automatically sent the vital signals to all the parts of her body to keep her alive. After various medical tests were done, the doctors decaled her brain dead. Her family agreed that her heart could be used to try save another person's life.





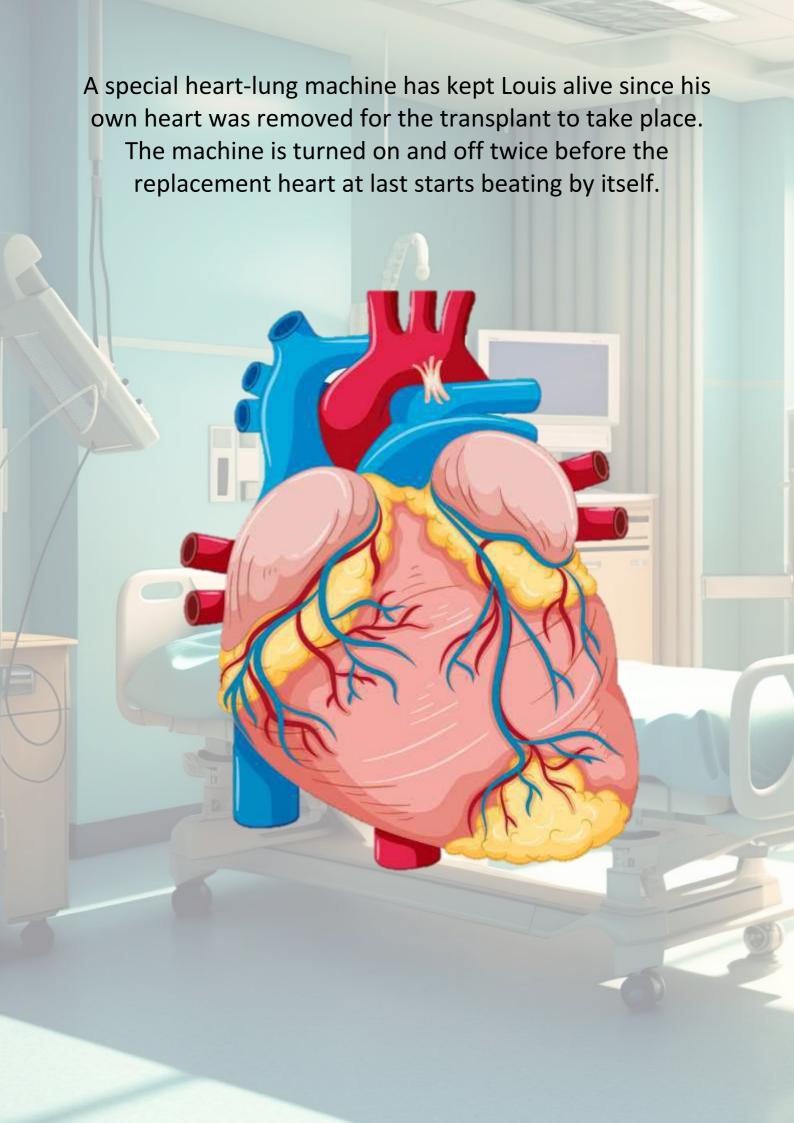
Louis is a 53-year-old shopkeeper. His own heart is too weak to pump enough oxygen-rich, life-giving blood throughout his body any longer. He is constantly short of breath and doesn't even have the energy to speak. He is dying.



The heart Christiaan is carrying is to becoming Louis'. He is as calm as can be when he starts the implant procedure. All the necessary steps take about six hours to perform. The final fine stitch that attaches Louis' new heart to his body is made at 05:34 by Doctor Rodney Hewitson.

Louis' new heart is given an electric shock from a special machine to kick-start it into action.







Louis is still very weak when Christiaan visits him the first time.

'Do you know what we did?' asks Christiaan.

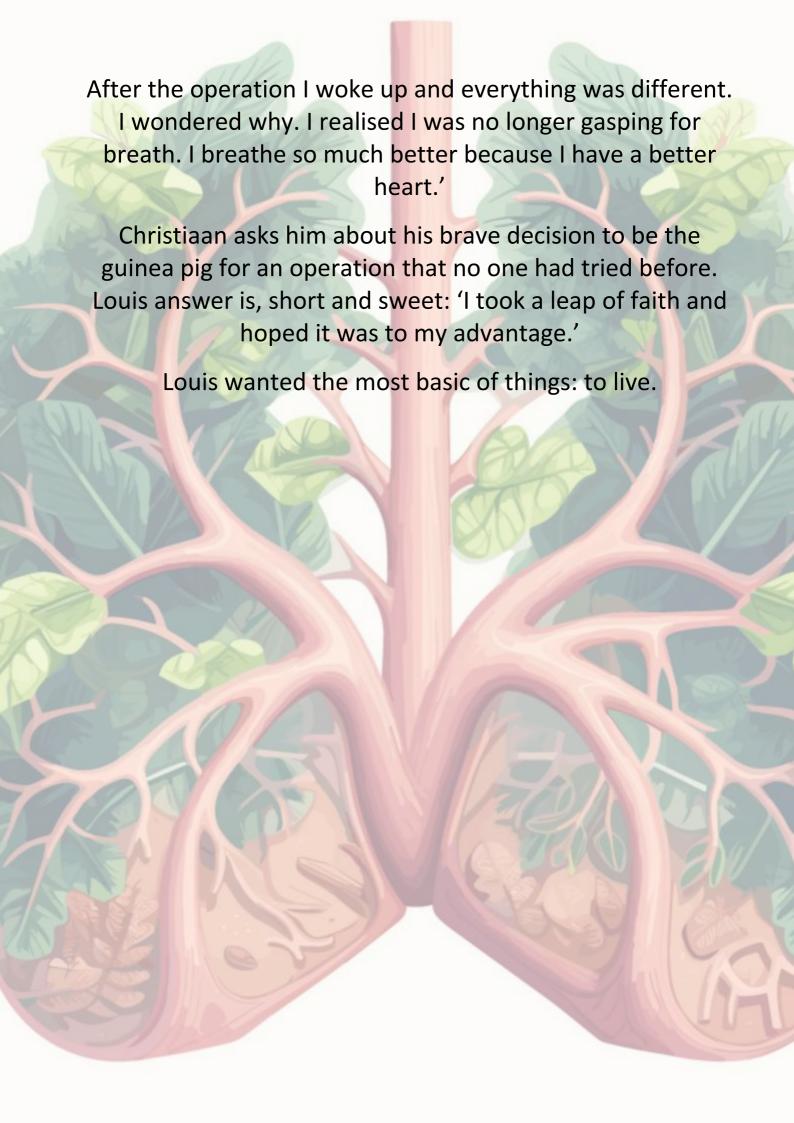
'You promised me a new heart ... I suppose you gave me one,'

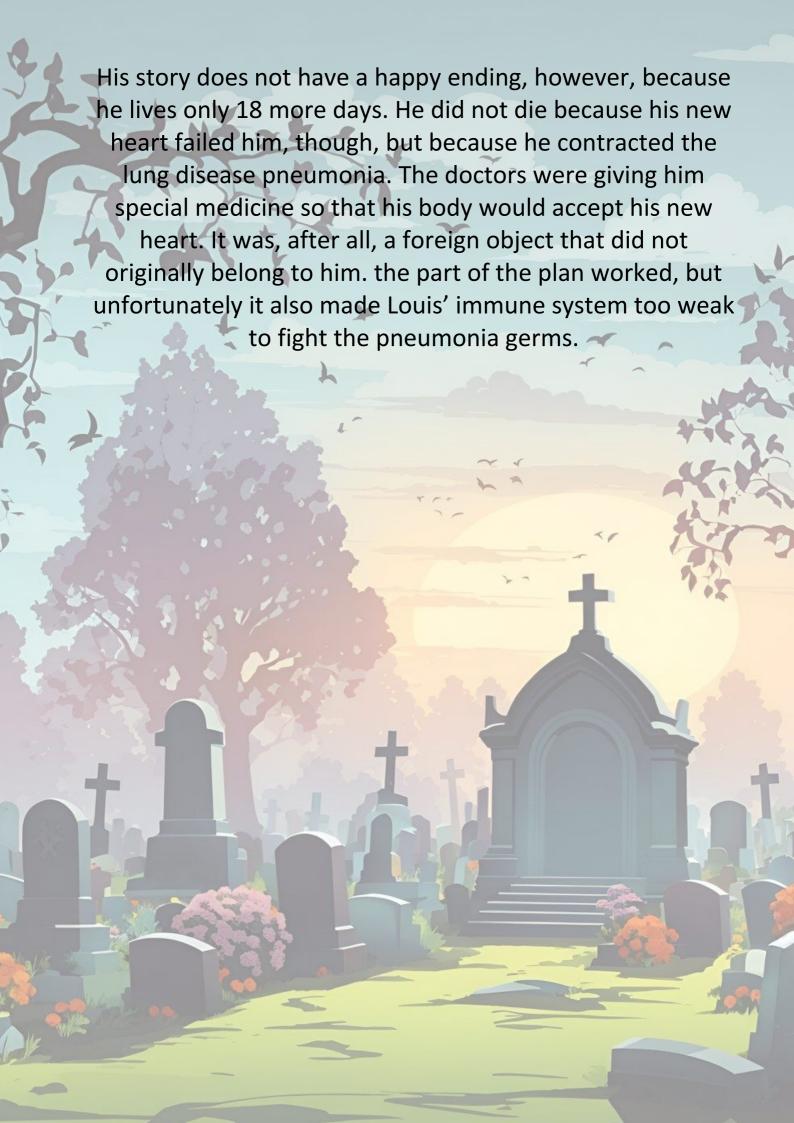
Louis struggles to answer.

Six days after the operation, a cheerful Louis is recovering well.

'In my life I've never felt better ... or happier,' he tells Christiaan when the doctor checks up on him.

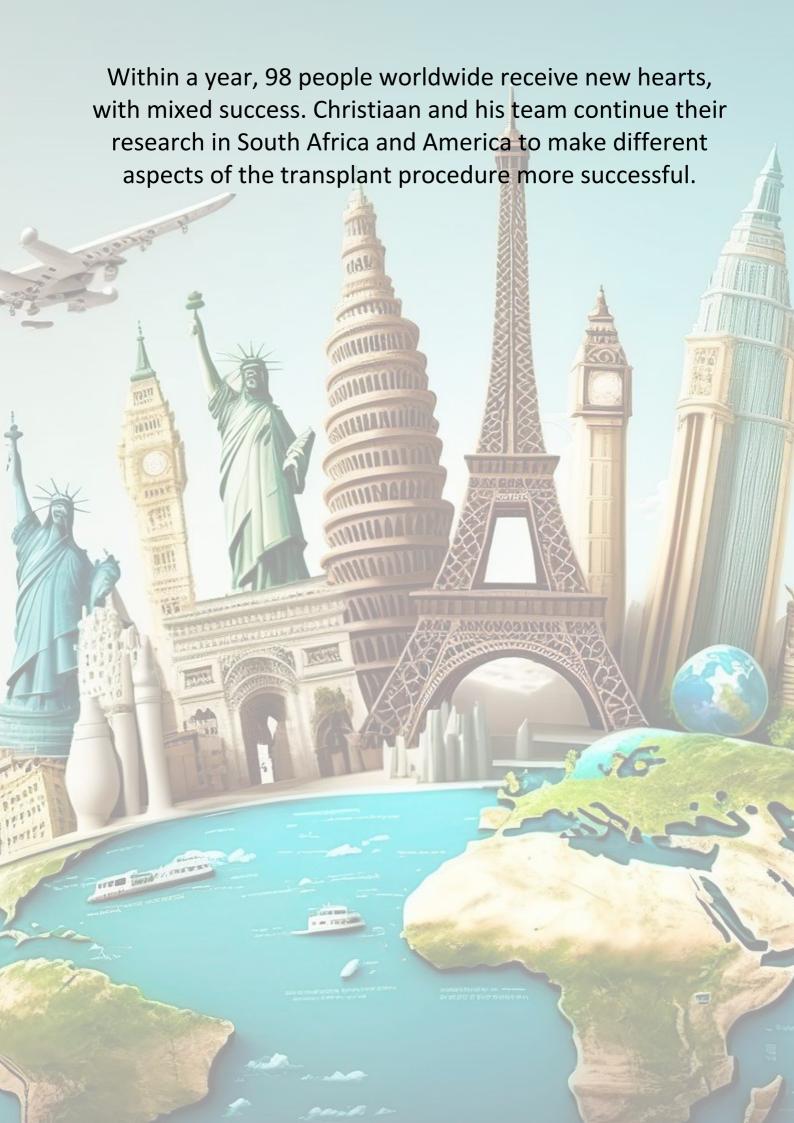






At least Louis' operation showed that a heart transplant could be successfully done. Three days after the first transplant, and American team does one too, this time on a baby. On 2 January 1968, Christian performs the world's third heart transplant on dentist Philip Blaiberg. Three months later, Philip is driving around again. He lives another 19 months, thanks to his new heart.





The survival rate of patients has improved significantly over the years since the ground-breaking operation, thanks among others to better medicines that stop patients' bodies from rejecting their new hearts.

