

Chapter 295

The first successful operation of replantation of severed upper wrist joint was performed by Chinese people under extremely poor environment and conditions. It's awesome! One of the chief surgeons is related to old Qiu. Think about the years when the United States blocked China with its little brother in all aspects, and the Soviets were small.

In that kind of evil environment, without even a more advanced microscope, the medical giants still made a world first. Then, there is no then. When money is the boss, this discipline shrinks rapidly in China. This is also a typical discipline that shrinks sharply when all disciplines catch up with and surpass the world.

In the operating room, after Xiao Congcong was pushed in, the doctors nervously began preoperative preparation to correct shock. Xiao Congcong, who is already very depressed, is even more depressed at this time.

Even have no strength to cry, pale little face, looking at a group of strange people wearing green clothes, blue hats and blue masks, nervous and afraid little dolls curled up together like a little wolf who lost his mother. Try to huddle yourself together, as if this can make you feel safe.

Rehydration, symptomatic treatment, and then Xiao Congcong fell asleep under the hypnosis of sedatives. The broken little hand is preparing for anesthesia for xiaocongcong. Zhang Fan and Li Liang have done preliminary treatment.

"Prepare Kirschner wire and intramedullary nail. This operation can't use steel plate!" Zhang Fan said to the operation nurse while dealing with the broken little hand.

"Director Zhang, why not use steel plates?" Li Liang doesn't understand. Since Lao Chen explained, Li Liang's name in the unit is no longer brother Zhang Fan.

"If fixed with steel plate, the periosteum will be seriously damaged, especially in young children. If you can try not to damage the periosteum, you will not damage the periosteum." Zhang Fan explained. Steel plate has many advantages, but its biggest disadvantage is to damage the periosteum.

The periosteum on the surface of the bone contains a large number of blood vessels and running nerves. Once damaged, it can no longer form, especially this nerve. Once damaged, it is too difficult to repair.

Steel plates are the products of large-scale industrialization. When using them, we must ensure that the steel plate and bone are adhered and not adhered. Either the steel plate is broken or the broken end of the fracture is not fixed firmly.

To apply it, first destroy the periosteum with a bone knife. The Kirschner wire is much simpler. It is like a steel drill for knitting a sweater. Two crossed straight lines fix a plane. That's the principle. But why do you use less for surgery now? It's simple, because it's cheap!

Brush off the broken little hand. After disinfection, Zhang Fan said to Li Liang, "Li Liang, beat in the heparin saline." Pig's trotters pig's trotters, as like as two peas, Zhang Fan grabs his little hands and makes the broken ends face Li Liang, the little hands washed, especially the small pig hoof, especially the skin color.

The cross-sectional blood vessels flushed with heparin is to prevent the residual blood from coagulation in the blood vessels. The key to the success of replantation of severed limbs lies in whether the blood vessels are sutured and connected with high quality and whether the blood vessels can be unblocked. First, ensure the flushing of residual blood in the blood vessels.

While washing, Zhang Fan tied a knot with black silk thread at the blood vessels and nerves, which was marked again. This kind of operation can't waste any time.

After handling the severed hand, the anesthesia is ready. Zhang Fan and Li Liang begin the operation. The instruments used in hand and foot surgery are similar to those used in vascular surgery and ophthalmology. The instruments used are very fine, not like orthopedics.

The instruments used in orthopedic surgery are very similar to those used by carpenters, such as hammer, saw, bone file, bone knife and electric drill! Remove a bone word. These tools can definitely be familiar to carpenters!

Everyone has three friends and four friends. Xiao congcongcong's uncle's family is also in the rural power station. Congcong's uncle is a small cadre of the rural power station, while congcongcong's parents are ordinary employees. Congcong's uncle is nice, but this aunt likes to gossip about right and wrong.

"Ouch! What do you think of children? Children are young and not sensible. Are you not sensible? The whole family is almost two hundred years old. They can't see a four-year-old doll. " Before people arrive, the strange voice has arrived. This is really killing my heart!

The two old people, who were already very guilty, were about to break their hearts. They loved their grandson and were annoyed, but what else could they say at this time? The two old people were not even qualified to cry. They were directly sinners! Really, it's terrible.

"Say less and go home!" Uncle is also worried. Yelled at his wife.

"Is there enough money? I brought my bank card. I must let the doctor use the best medicine and equipment. It's too late now. You should send some red envelopes to the doctor before the operation. It's such a big thing, alas! " He went to his brother, whispered a few words, and asked, "where is the person in charge of the hospital? I'll take care of it."

Before he finished, Lao Chen prepared the operation signature and came over: "come, the children's parents come to the office to sign."

Congcong's father helped congcongcong's mother into the doctor's office, and her uncle followed. Congcongcong's mother quickly followed. She was worried that her old man would give money!

Congcong's grandparents have been like a puppet with silk thread drawn, staring at the green light at the door of the operating room.

"Here, here. You all know the difficulty and danger of the operation and the sequelae after the operation. Sign! " After Lao Chen explained his illness, he pointed to the place to sign and said to his family.

For Congcong's family, now they are pigs waiting to be slaughtered on the chopping board. What the doctor says and what they do, let alone resist, they dare not even have any objection! Now they are afraid that something will happen to the doctor.

"Remember to pay the fee."

"Director, how much is it?" Congcong's parents are like zombies. They don't even have a normal mind. Only uncle Congcong comes forward to speak.

"Twenty thousand or so!"

"OK, I'll pay now." With these words, uncle congcongcong is going to pay. Aunt congcongcong is a little worried and secretly holds her husband's back.

Uncle Congcong didn't talk much either. He pushed his wife's hand away and went out to pay. Aunt's heart is like a knife at this time. 20000 is not a small number for ordinary people. Hey!

At this time, the three people were like zombies and walked out of the office door. Suddenly, the aunt seemed to be alive: "you too. The children can't look well. What bad hospital are you looking for? Why not go to the public hospital!"

Congcong's parents are like deaf people! As a result, Lao Chen heard this, "Hey! Big sister. That's not what I said, bad hospital? Go and inquire about this replantation operation in the whole tea vegetable

city. As long as our hospital says there is no way, let alone other hospitals. This is the replantation of severed limbs in tea vegetable city! " He said and gave a thumbs up!

proud! Can't he be proud that a doctor who couldn't stand out in a county hospital in the past can't Parry a public third-class hospital now! Can't you be proud!

In the operating room, Zhang Fan and Li Liang performed the operation nervously and quickly. "For the operation of children, we must consider the future development, especially the bone dirt line. If you can't touch it, don't touch it." Zhang Fan explained to Li Liang while performing the operation.

Song Bing stood aside as a itinerant nurse. As long as Zhang Fan had surgery, Li Liang and song Bing were either assistants or itinerant nurses. They would never miss this opportunity to observe!

Debridement is the first and very important step of traumatic surgery. An excellent debridement lays a solid foundation for replantation.

Three to four hours after the muscle loses blood, it is relatively dull to the general stimulation. Fortunately, Congcong sent it for a short time. At present, the situation is quite good.

The preservation of limbs is one for a sound physique and the other for the function of limbs. The premise of preserving physique is to fix fractures and repair blood vessels, especially blood vessels, and ensure high-quality suture.

The guarantee of limb function is nerve repair. Simply put, the more the centrifugal segment is replanted, the greater the probability, because the farther it is, the smaller the vascular lumen and nerves are. Generally speaking, the larger it is, the harder it is to repair and the harder it is to survive!

Flushing, Zhang Fanfei quickly flushed the blood vessels with heparin saline. Li Liang's cooperation can barely keep up with Zhang Fan. During this time, Li Liang also had a bitter liver.

After debridement, he began to fix the fracture. The child's bones were as white as ivory and jade and as thin as chopsticks, "Hey! Such a young child has suffered such a great sin. " Li Liang did not know how many amputated limbs had been replanted. Today, when he saw the little doll's hands, he couldn't help feeling a little sad.

For fracture fixation, press the Kirschner wire with a special electric drill for operation, connect the ulna and radius, slightly deviate from the angle of 30, and gently penetrate the bone under the high-speed rotation of the electric drill. This straight broken end is the easiest to fix.

Crossing left and right, Zhang fan fixed a plane. A fracture plane is fixed very accurately, without hesitation or gesture. It is so skilled and accurate. Li Liang doesn't realize it because he is an assistant.

Song Bing, standing on the tour, watched Zhang Fan's operation and kept shouting: "shit! Shit! Shit! That's what I did, oh! Why do you want to do this! " Excited, excited and confused, it is estimated that

he will have a liver all night after the operation!

After the fracture and tendon are fixed, the blood vessel will be. At this time, the microscope will be brought. The key to the success or failure of the operation comes, but it is not difficult for Zhang Fan.

Step by step, once the operation is performed, Zhang Fan is like a robot. The muscles that have been in the system for countless times have already formed a memory, and the priorities are very standard.

Nerve suture, skin suture, step by step, "OK!" After the operation, Zhang Fan said softly. As soon as he spoke, the operating room was like Su Rong's world of ice and snow. Everyone was resurrected.

"Director, are you tired? I'll open a bottle of glucose for you!" Song Bing flattered Zhang Fan.

"It's all right. You should remember not to relax or be careless at this time. You must observe the replanted limbs and whether there are changes in skin and temperature. "

"Yes." Li Liang and Song Bing nodded and agreed at the same time.

At this time, Congcong's broken little hand has been connected to his arm, but the colors on both sides are very clear.

The skin on the broken side is pale, like a prosthetic limb. With the opening of the tourniquet, the skin visible to the naked eye slowly changes color. From near to far, the broken limb has color.

For more than ten seconds, it was like a magic trick. The skin of the small hand became normal. Only the cut off part had a circle of black line, which was embroidered on the small arm like a black ribbon Bracelet! It's really cute and good-looking. This black ribbon is really more beautiful than the bloody and bony appearance. I don't know how many times!

"After the operation, pay close attention, especially within 24 hours after the operation. You must not be careless."

OK, Li Liang and Song Bing nodded at the same time.

The operation is over! The rescue was successful. More than three hours have passed.