

Total knee arthroplasty when bone ankylosis in a patient suffering from hemophilia A

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OBJECTIVES

Unsatisfactory results of total knee arthroplasty limit indications of treatment in case of bone ankylosis. On the other hand, the perverse position of the knee joint, and increased probability of retroperitoneal hematoma, increased and non-functional load on the hip joint on the affected side makes perform total knee replacement in patients with hemophilia and knee ankylosis.

METHODS

Treatment of 30 years old patient with right knee ankylosis in the position of 160 degrees and hemophilia A was held at the National Research Center For Hematology, Moscow, Russia

At the age of 5 years the patient was detected inhibitor of factor VIII. At the age of 21 years he was treated by ITI. A year after inhibitor was not detected.

There was a post-traumatic hematoma of the right tibia. After the hemostatic therapy hematoma significantly decreased. Then there was a re-traumatization of the hematoma with subsequent relapse. Performed surgery: opening, drainage of the hematoma, followed by suturing of surgical wounds. Then this wound festered and complicated with the osteomyelitis. Performed surgery: open sanitation of osteomyelitis , antibacterial , hemostatic therapy . After 4 months the wound healed by secondary intention .

After wound healing the hemarthroses of right knee became frequent. There was a flexion contracture of the knee joint. The redressments of joint had a temporary effect. The therapy did not prevent the appearance of ankylosis of the right knee joint in the vicious position of 160 degrees. The ankylosis of the right knee was determined on X-Ray (for 15 years).

A total knee arthroplasty was performed.

GRAPHS AND TABLES



RESULTS

We used RT-Plus (firms: Smith and Nephew) implants. There was no hematoma in the postoperative range. Axial load without a pain on the operated leg in 2 days after operation. 2 months after the operation range of motion in the knee joint was 120 - 180 degrees.

CONCLUSIONS

Thus, total knee replacement in the case of bone ankylosis (over 15 years) in a patient who underwent therapy allowed to achieve immune tolerance range of motion in the joint 60 degrees and normalization of biomechanics of the patient walk

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