

소아 대퇴골 원위간부 골절에서 대퇴 사두건의 감입으로 인한 슬관절 강직

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소아에서 대퇴골 간부 골절 후 발생할 수 있는 합병증으로는 하지 부동, 각 변형, 회전 변형, 하지 허혈증 등이 있으나 슬관절 강직은 잘 발생하지 않는 것으로 알려져 있다. 저자들은 소아의 대퇴골 원위부 골절에 대해 Russel 견인술 및 고수상 석고 고정술을 이용한 보존적 치료 후 대퇴골 골절 부위에 대퇴 사두건이 감입되어 발생한 슬관절 강직을 근위 골편의 원위부 절제술 및 대퇴 사두근건 유리술을 이용한 수술적 치료 후 좋은 결과를 얻은 치험례를 보고하는 바이다.

색인 단어: 소아 대퇴골 골절, 슬관절 강직, 대퇴 사두근 유리술

Stiff Knee by Entrapment of Quadriceps Femoris Tendon at Fracture Site in Paediatric Distal Femur Shaft Fracture

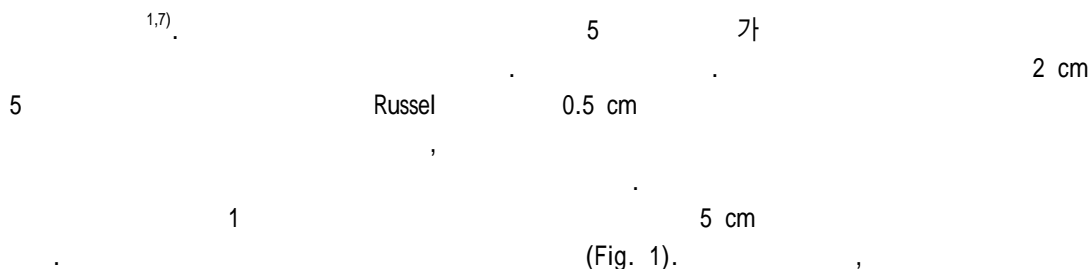
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The complications following paediatric femur fracture are leg length discrepancy, angulation deformity, rotational deformity, ischemic limb. But, stiff knee is rarely expressed after trauma like paediatric femur fracture. We report a case of stiff knee due to entrapment of quadriceps femoris tendon at displaced fracture site after conservative treatment by Russel traction and hip spica cast in paediatric femur fracture. We treated successfully by resection of distal end of proximal segment of femur and release of quadriceps femoris tendon for flexion contracture of the knee.

Key Words: Paediatric femur fracture, Stiff knee, Quadriceps femoris tendon release

증례 보고



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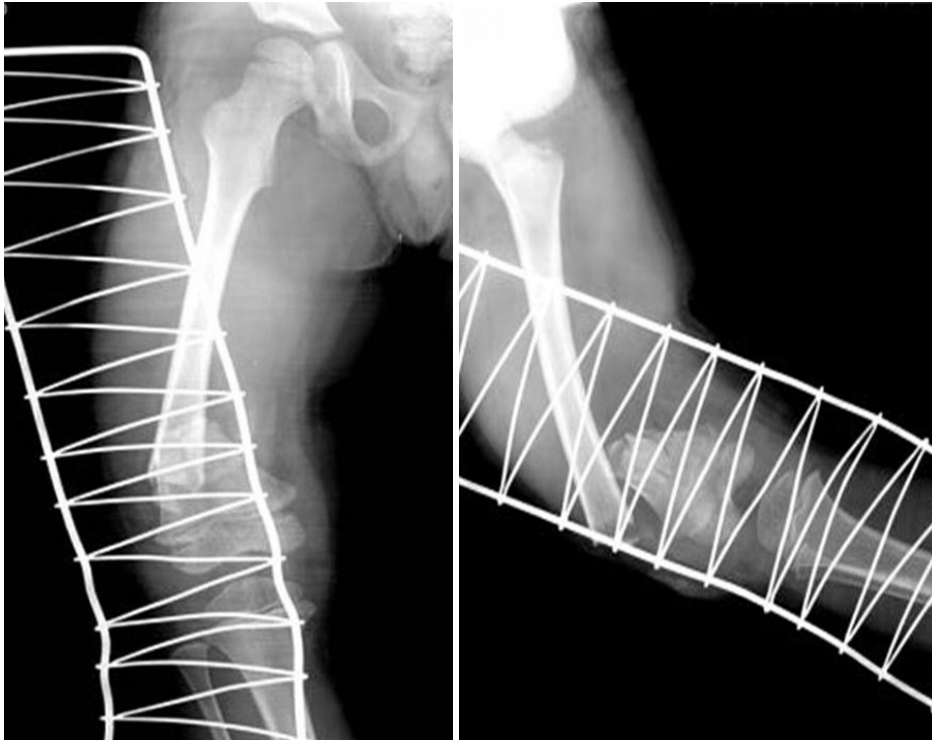


Fig. 1. Initial radiographs show comminuted fracture on distal one fourth of right femoral shaft.



Fig. 2. Initial radiographs show Salter-Harris type II fracture of left distal tibia.

가 Salter-Harris type II
(Fig. 2).
silastic 1 Russel 2 ,



Fig. 3. The radiographs show some callus along the periosteum at 2nd weeks after initial trauma.



Fig. 4. The radiographs show bridging callus formation from distal fragment to side of proximal fragment at 4 months later.

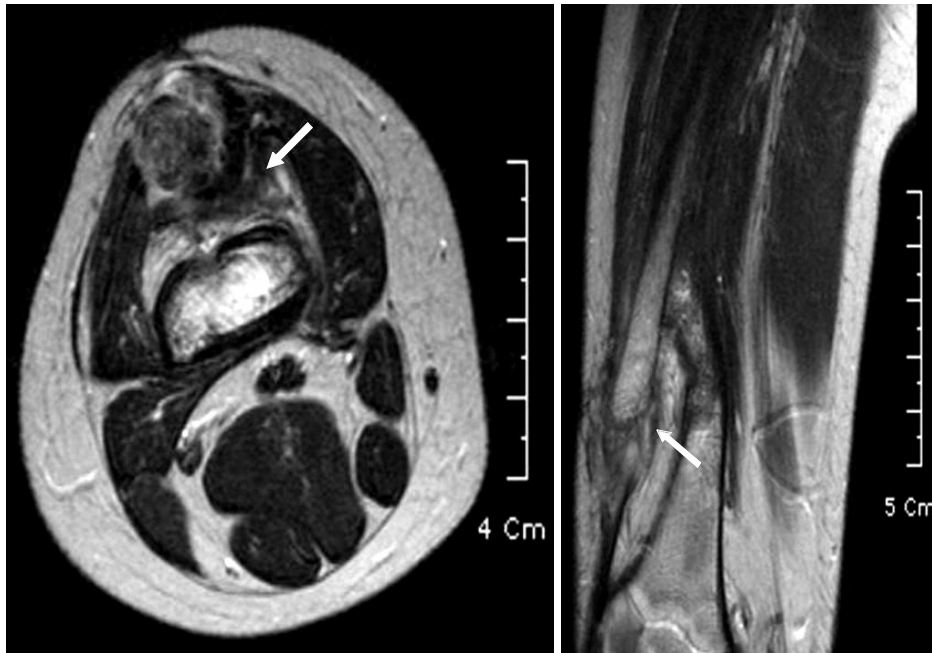


Fig. 5. The MRI shows entrapment of quadriceps femoris tendon between proximal fragment and anterior cortex of distal fragment.

가
1.6 cm, 7°, 4°
2 mm
(Fig. 3).
4, 10, 3
4 가
4°, 1.5 cm, 8°,
4°, 10 mm 가
가 (Fig. 4).
15°, 80°



Fig. 6. The radiographs are taken after resection of proximal fragment and release of quadriceps femoris tendon.

가
(Fig. 5).
가 0°, 130°
1
(Fig. 7)



Fig. 7. The radiographs show solid union and remodeling on 1 year after operation.

가 .

고 찰

Bryant , 90-90 , Russell

가

가 , 7) , ,

1 cm
1~1.5 cm 2 cm

(frontal plane) 10° , (sagittal plane) 가 10°

30° , 가 1)

2 1.6 cm, 7° ,
4° , 2 mm ,

1.6 cm, 7° ,
10 mm
가 2 mm
가 10 mm

가

가

45 4 (8%)
5)

8)

Nicoll⁶⁾

가

4가

가 4가 가

가

가

가

가

가

가

MRI

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