From the Clinics

Postero-lateral subluxation of the superior tibio-fibular joint

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Foot drop resulting from subluxation of the superior tibio-fibular joint is described in a female dancer. Spontaneous resolution of the nerve injury occurred over two months with no residual joint instability. Expectant management is recommended for this injury. The potential for this unusual injury, in a wide variety of sports, is pointed out.

Keywords: Superior tibio-fibular joint, subluxation, dancer

The prognosis for a common peroneal nerve palsy associated with posterior displacement is good, although it may require operation. Common peroneal nerve injury may also be associated with injury to the lateral collateral ligament of the knee, and in these cases has a poor prognosis.

A 22 year old professional ballet student landed awkwardly on a minimally flexed left knee whilst dancing. The left knee subsequently became swollen and she was unable to bear weight due to pain. Within hours she developed a foot drop and loss of sensibility in the lateral border of the foot and foot. She sought the advice of her general practitioner who recommended rest. The swelling resolved over three to four days and the left foot drop recovered over a period of one month. Sensibility in the foot remained altered.

She presented to an orthopaedic clinic two months after the injury because of persistent pain. She had a full range of movement of the left knee and ankle. There was tenderness over the head of the fibula which felt more prominent, but there was no abnormal movement of the fibula. The left foot had normal motor function but there was altered light touch sensibility in the lateral border of the foot.

Radiographs revealed a postero-lateral subluxation of the proximal fibula at the superior tibio-fibular joint (Figures 1 and 2).

Traumatic dislocations or subluxations of the proximal tibio-fibular joint are rare. Nelaton first described a case in 1874. Since then only around a hundred cases have been reported in the literature. The diagnosis is easily missed.

Ogden classified injuries of this joint into four types: (i) subluxation (ii) antero-lateral dislocation (iii) posteromedial dislocation (iv) superior dislocation. The antero-lateral dislocation occurs most frequently.

Associated damage to the common peroneal nerve is a recognised complication of superior tibio-fibular joint dislocation. It has been recorded most commonly with antero-lateral dislocations, but also with posteromedial and superior dislocations, as well as in cases of chronic instability.

References

Postero-lateral subluxation of the superior tibio-fibular joint: N.R. Gillham and R.N. Villar

Figure 1 a and b. The normal uninjured right knee

Figure 2 a and b. Left knee, demonstrating subluxation of the superior tibio-fibular joint
Postero-lateral subluxation of the superior tibio-fibular joint.

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