

# A rare occurrence of same hip involvement by Perthes and Slipped capital femoral epiphysis in succession; case report.

- pathologies which may lead to devastating complications if left untreated.
- The age of onset is different in both of these pathologies.
- the literature, the majority of them had involved opposite hips.
- SCFE in succession
- internal rotation.
- treated conservatively with traction followed by non-weight bearing walking.
- treated with varus derotation osteotomy.
- The disease healed completely after 2.5 years.
- followed up for 8 years. He had no restriction of activity.

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## Introduction

• Perthes disease and Slipped capital femoral epiphysis (SCFE) are two common paediatric hip

• Though very few cases of coexistent Perthes and SCFE in the same child have been reported earlier in

• We hereby report a rare case scenario of affection of same hip involvement in a child by Perthes and

# **Case details**

A 7-year-old boy was presented with a painful limp with restriction of abduction and

Radiographs revealed Perthes disease of the left hip (stage of avascular necrosis) and was

On follow-up, after 6 months, the extrusion of the femur head was increased. Hence he was

He underwent implant removal. He got a spherical congruent hip and was regularly



Fig a & b-AP & lateral radiographs showing Perthes disease of left hip in stage of fragmentation



Fig c & d- Post op follow up radiographs showing healed Perthes with spherical congruency of left hip







- At the age of 15 years, he developed spontaneous pain of the same side (left hip) without incidence of acute trauma.
- The child was obese (wt 110 kg) and was unable to bear weight on the left side.
- The radiograph revealed left side severe Slipped capital femoral epiphysis (SCFE).
- He was treated with modified Dunn osteotomy.
- $\bullet$

### Discussion

- Majority of them had involved opposite hips.
- Crawford AH et al in 1975 had reported an unusual concurrent occurrence of SCFE in one hip  $\bullet$ and active Perthes disease in opposite hip in a six year old child which was managed successfully with traction and bed rest.[1]
- involving opposite hips at different age of presentation.[2]
- involving the same hip. Patient had sustained a fall and developed SCFE one and half year following treatment (cheilectomy) for Perthes disease. It was treated with in situ pinning.[3]
- for both pathologies resulting in good outcome.

### References

- Bone Joint Surg Am. 1975;57(2):280-281.
- epiphysis in the same child. J Pediatr Orthop. 1987;7(1):61-62.
- same child. Orthopedics. 1992;15(9):1070-1072.

At the latest follow-up at 12 weeks, he had no pain and had started full weight bearing.

Very few cases of coexistent SCFE with Perthes disease have been reported in the literature.

Graziano et al in their case series in 1987, had reported 3 cases of coexistent Perthes and SCFE

Ruoff MJ et al had reported a case of Perthes disease with SCFE in a child with downs syndrome Our case is unique due to involvement of same hip in a child who had no associated congenital condition and no trauma history prior to development of SCFE. The management was operative

1. Crawford AH. Legg-Calvé-Perthes disease coexistent with slipped capital femoral epiphysis. A case report. J

2. Graziano GP, Kernek CB, DeRosa GP. Coexistent Legg-Calvé-Perthes disease and slipped capital femoral

3. Ruoff MJ, Schwentker EP. Legg-Calve-Perthes disease and slipping of the capital femoral epiphysis in the



Fig e, f- Anteroposterior & lateral radiograph showing SCFE of left hip



Fig g & h-Post op radiographs following fixation of left SCFE with modified Dunn osteotomy



Fig i & j- 3 months post op follow up radiographs showing complete healing with good reposition of left epiphysis



