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**Name of Journal:** *World Journal of Orthopedics*

**Manuscript NO:** 56434

**Manuscript Type:** CASE REPORT

**Osteochondroma formation after avulsion fracture of anterior inferior iliac spine: A case report**

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#### Abstract

##### BACKGROUND

Hip avulsion fractures occur mostly during adolescence when actions such as kicking or running cause forceful contraction of attached muscle. Osteochondroma is benign tumor that mostly occurs at the metaphysis of a long bone, being usually asymptomatic.

##### CASE SUMMARY

A 15-year-old patient experienced feeling and sound of a break while kicking a ball in soccer game three years prior to his visit to our hospital. A simple X-ray revealed an avulsion fracture of the apophysis of the anterior inferior iliac spine (AIIS). Later in the follow-up X-ray, a palpable mass was found and demonstrated by magnetic resonance imaging to be a pedunculated



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## Anterior Inferior Iliac Spine Avulsion Fracture

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4554161>

Feb 20, 2015 · Patient's history, physical examination, and radiologic studies are important for diagnosis. The literature includes only a few case reports but no case series as yet. The aim of this study was to present the results of 5 cases of **anterior inferior iliac spine (AIIIS) avulsion fractures** treated conservatively.

**Cited by:** 9

**Author:** Sancar Serbest, Hacı Bayram Tosun, Uğ...

**Publish Year:** 2015

## Avulsion fracture of anterior inferior iliac spine ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4446677>

The mechanism of **anterior inferior iliac spine avulsion fracture** is due to the pull of the straight head of the **rectus femoris muscle** which usually occurs with hip joint extended while the knee joint in a flexed position, and it is usually seen after sports that involve mostly forceful kicking or running like soccer, rugby and tennis players .

**Cited by:** 1

**Author:** Ghalib Ahmed Alhaneedi, Abdullah Saa...

**Publish Year:** 2015

## Avulsion fracture of anterior inferior iliac spine ...

<https://prod-images.static.radiopaedia.org/cases/avulsion-fracture-of-anterior...> ▼

The typical age and the classic history of pain **after** playing football favor an **avulsion fracture** of the **anterior inferior iliac spine**. The relatively soft bone of the teenager causing the rectus femoris muscle to avulse the bone at this site.

## Anterior inferior iliac spine avulsion injury | Radiology ...

[https://radiopaedia.org/cases/anterior-inferior-iliac-spine-avulsion-injury-2?](https://radiopaedia.org/cases/anterior-inferior-iliac-spine-avulsion-injury-2?lang=us)

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**Case Discussion.** This **case** shows an **avulsion fracture** of the **anterior inferior iliac spine (AIIIS)** where the direct/straight head of the rectus femoris muscle is originating from 1.Sudden forceful



Osteochondroma formation after avulsion fracture of anterior inferi



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## Avulsion Fracture of the Anterior Inferior Iliac Spine ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4052389>

Feb 20, 2014 · This is a **case** of a 17-year-old boy who was admitted to the clinic suffering from right hip-inguinal region pain which began **after** a soccer match. He had an **avulsion fracture** in the **anterior inferior iliac spine** and CT/MR images showed similarities to a bone tumor.

**Cited by:** 1

**Author:** Mehmet Incedayi, Selahattin Ozyurek, Se...

**Publish Year:** 2014

## Avulsion fracture of anterior inferior iliac spine ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4446677>

**Avulsion fractures** of the **anterior inferior iliac spine** are less frequent than other pelvic avulsions with an incidence of 14.8–22.1% among acute **avulsion fractures** of pelvis in young athletes. Pelvic **avulsion fractures** are more common in male [5,13] , adolescents and young adults between 14 and 23 years of age, and when the ratio of muscular ...

**Cited by:** 1

**Author:** Ghalib Ahmed Alhaneedi, Abdullah Saad ...

**Publish Year:** 2015

## Avulsion Fracture of the Anterior Inferior Iliac Spine ...

[europepmc.org/articles/PMC4052389](https://europepmc.org/articles/PMC4052389)

May 01, 2014 · **Avulsion fractures** with callus **formation** during the healing period may be confused with osteosarcoma or Ewing's sarcoma. 2,9 Dhinsa et al. reported that subtle bone marrow edema in the **anterior iliac spine** and hematoma (hyperintense in T1W and T2W images) suggests a **fracture** ...

## (PDF) Anterior inferior iliac spine avulsion fracture: A ...

[https://www.researchgate.net/publication/40028108\\_Anterior\\_inferior\\_iliac\\_spine...](https://www.researchgate.net/publication/40028108_Anterior_inferior_iliac_spine...)

A **case of anterior inferior iliac spine fracture** in 13-year-old twins is reported. **Anterior inferior iliac spine avulsion fracture** in adolescent remains a little known entity.

## Anterior inferior iliac spine avulsion | Radiology Case ...

<https://radiopaedia.org/cases/anterior-inferior-iliac-spine-avulsion-5> ▼

**Case Discussion.** AIIS **avulsion** injuries occur usually in adolescents as a result of acute trauma. The AIIS apophysis fuses with the ilium between 16 and 18 years of age, so before that, it is the physeal plate

## Anterior inferior iliac spine

The anterior inferior iliac spine is a bony eminence on the anterior border of the hip bone, or, more precisely, the wing of the ilium.



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