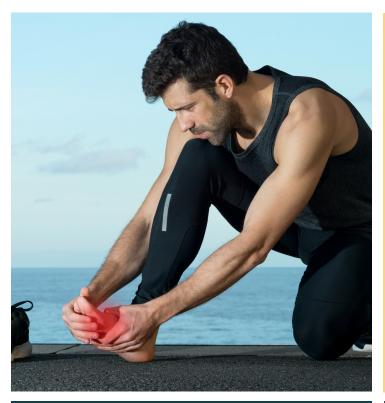
# **LISFRANC INJURIES**

#### TIPS & TRICKS

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#### COMMON PITFALLS

The X-ray can often appear normal, especially if a non-weight bearing film is ordered

A CT scan will also appear unremarkable in the setting of a ligamentous Lisfranc injury

Plantar ecchymoses (bruising on the plantar aspect of the foot) are pathognomic of the injury and should never be ignored, even in the presence of a normal X-ray

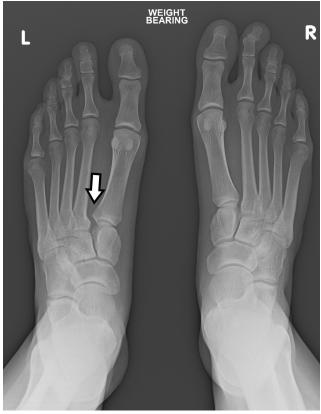
## INJURY PROFILE & HISTORY

Common around the 3rd decade of life

Male : Female ratio = 4.25:1

The most common mechanism is an axial force applied to a plantar flexed foot

Often the only X-ray finding is widening of the space between the 1st & 2nd metatarsals (pictured right)

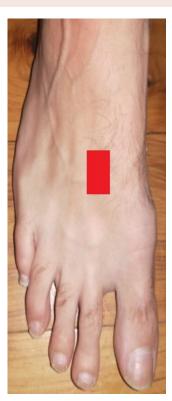


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## EXAMINATION

- Examination is the key to diagnosis of a Lisfranc Injury
- The patient will be tender over the base of the 2nd metatarsal (pictured below in red)
- Plantar ecchymoses are a hallmark sign of Lisfranc injury and their presence should lead to multiple levels of imaging until the injury is ruled out (pictured below left)





## WHAT TO LOOK FOR ON IMAGING

The first subtle clue is widening of the space between the bases of the 1st & 2nd metatarsals on a weight-bearing foot Xray (see 1st page)

The CT will often show a small intrarticular fracture of the base of the 2nd metatarsal or medial cuneiform (see below)

In the event of a soft-tissue-only Lisfranc injury, the MRI may show increased signal or rupture within the Plantar Lisfranc Ligament

## WHAT SHOULD I DO

If Lisfranc injury is expected, a weight-bearing Xray is recommended as a first line investigation

If the X-ray is unremarkable for widening or fracture, but the clinical signs are consistent with a Lisfranc injury, then a CT scan is recommended

If continued pain or disability persists after 3-4 weeks despite normal CT & X-ray imaging, an MRI is recommended

> In cases of identified Lisfranc injury, place the patient into a boot or backslab (Non Weight-bearing) and obtain early specialist referral

