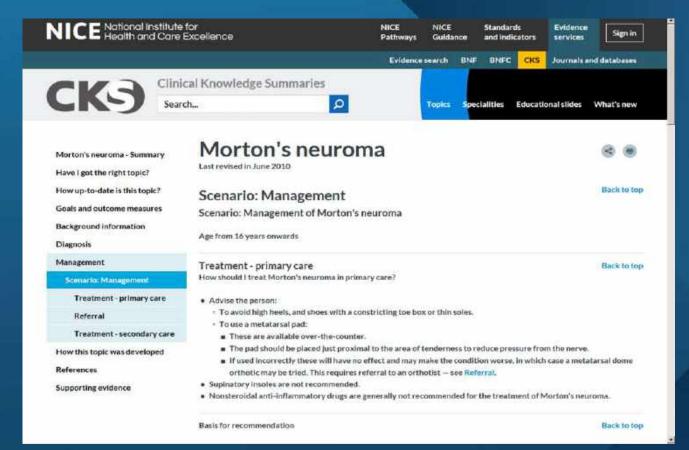


Stephen Hewitt FRCPods MSc BSc PGDip Consultant Podiatric (foot & ankle) Surgeon.



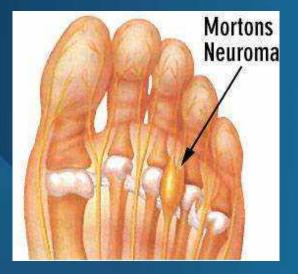




' Physical therapies

- Ultrasound, electrical stimulation, whirlpool and massage Nunan 1997
- NSAID's;
- Manipulation Cashley 2000;
- Cryotherapy Cashley 2000;
- Sclerosing injections Dockery GL 1999.
- Orthoses. Kilmartin 1994
- Met Domes Bhatia 2020
- The evidence base for using these interventions for this common condition is currently weak.
- Cocharane review

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SO WHAT NOW?





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- Cushion the area
- •Steroid injections
- •Surgical excision.



Digital deformities













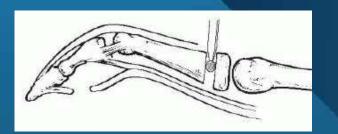


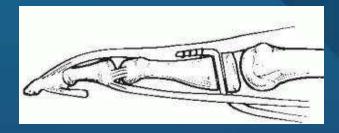


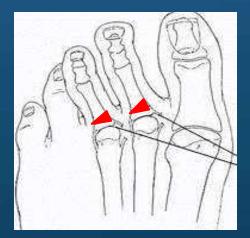




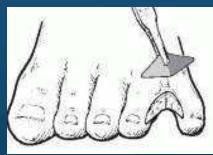














PLANTAR PLATE TEAR



Pebble sensation
Attenuation of Joint capsule
Sudden subluxation

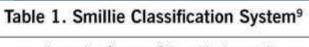








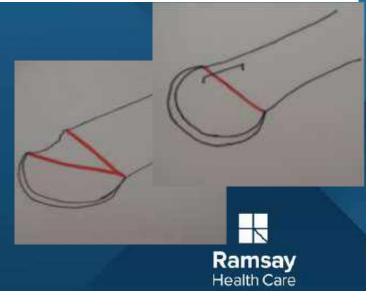




Stage 1	Not visible on radiographs, fissure of the articular cartilage on the metatarsal head
Stage 2	Resorption of the central aspect of the metatarsal head
Stage 3	Progressive central metatarsal head resorption with formation of medial and lateral metatarsal head projections
Stage 4	Loose bodies are present
Stage 5	Flattening of the metatarsal head and arthrosis

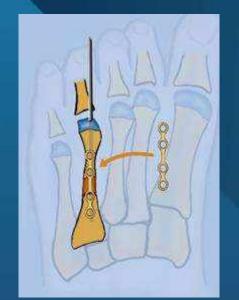


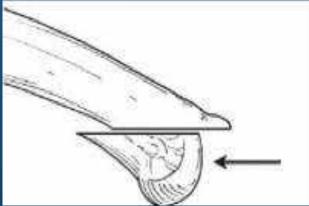




PARABOLA ISSUES







Brachy-metatarsal



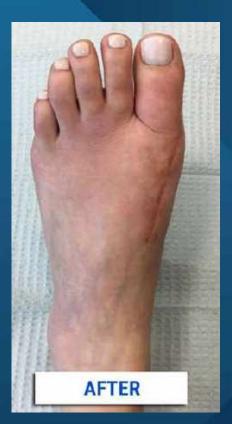


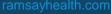
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Bunions - Hallux Abducto Valgus Deformity















Mild –Moderate HAV









Severe HAV Lapidus









Hallux Valgus surgery via Minimal Incisions

NHS

National Institute for Health and Clinical Excellence

Understanding NICE guidance

Information for people who use NHS services

Treating bunions using surgery through small incisions

NICE 'interventional procedures guidance' advises the NHS on when and how new procedures can be used in

clinical practice.

This leaflet is about when and how surgery through small incisions can be used in the NHS to treat people with burnions. It explains guidance (advice) from NCE (the National Institute for Health and Clinical Excellence).

Interventional procedures guidance makes recommendations on the safety of a procedure and how well it works. An interventional procedure is a test, treatment or surgery that involves a cut or puricture of the skin, or an endoscope to look inside the body, or energy sources such as X-rays, heat or ultrasound. The guidance does not cover whether or not the NHS should fund a procedure. Decreans about funding are taken by local NHS bodies.

What has NICE said?

There is not much good evidence about how well this procedure works or how safe it is. In addition the evidence is inconsistent and covers many different techniques. If a doctor wants to use this procedure, they should make sure that extra steps are taken to explain the uncertainty about how well it works, as well as the uncertainty surrounding potential risks. This should happen before the patient agrees (or doesn't agree) to the procedure. The patient should be given this leaflet and other written information as part of the discussion. There should also be special arrangements for monitoring what happens to the patient after the procedure.

NICE has encouraged further research and may review the procedure if more evidence becomes available.

Treating bunions using surgery through small incisions





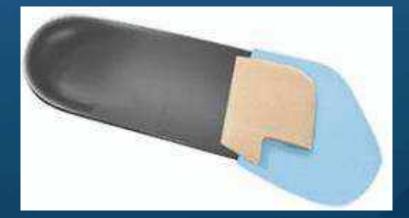








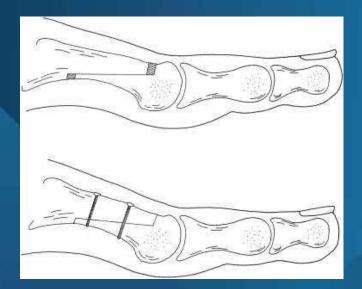
Options

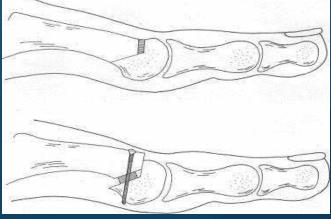




Decompressive Metatarsal Osteotomies



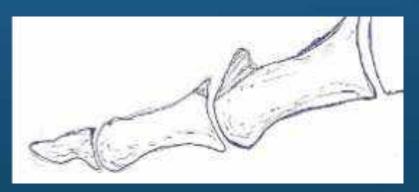








Cheilectomy or Kessel Bonney





Hallux Rigidus

Maintains motion within the joint Early mobilisation





National Institute for Health and Clinical Excellence Issue date: November 2005 Metatarsophalangeal joint replacement of the hallux Understanding NICE guidance -information for people considering the procedure, and for the public









1st MTP joint Fusion

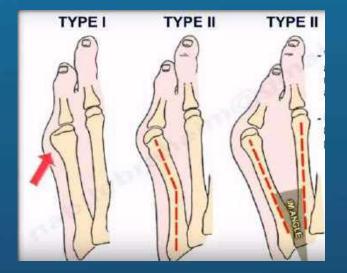
Early mobilisation in heel walker





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5th Metatarsal Bunionette













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Iselin Disorder
Close 12-14 years



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Avulsion #
Peroneal tendon



Jones #
Very difficult to heal

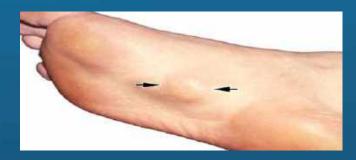
Fixation very long recovery (pain)





Plantar Fibromatosis

Chronic trauma /Fibrous changes





Foot Orthoses. Press on the bump

Steroid injections
Rupture

Verapamil patch (Calcium channel blocker)

Fibro blast release requires calcium inhibits Collagen production

Caution contact dermatitis

Radiation therapy
Retards Fibroblastic activity
IRMER

ECSWT

Limited documented evidence

Orthop Res Rev 2019; 11: 1–7.

Published online 2018 Dec 17. doi: <u>10.2147/ORR.S154289</u>



Achilles Tendinosis

Trauma (ballistic forces)
Chronic degenerative changes
Inflammatory arthropathies
Attenuation of tendon
Chronic insertional Enthesitis

Fluoroquinolones Antibiotics

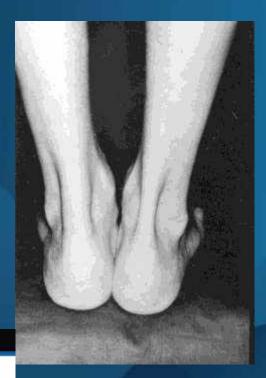
Ciprofloxacin; Moxifloxacin; Levofloxacin

Haemophilus Influenzae Sinusitis / Otis media Chlamydia

₫ GOV.UK

Home > Drug Safety Update

Fluoroquinolone antibiotics: new restrictions and precautions for use due to very rare reports of disabling and potentially long-lasting or irreversible side effects





Steroid injections

Cochrane review 2015

18 studies, 732 patients

Steroid injection into a tendon is contra-indicated

Ohberg & Alfrederson 2002 U/S guided injection into the neo-vascularisation 80% "cured" at 6/12 follow-up Sclerotic therapy

Prolotherapy (sugar water) BJSM 2017 Quicker healing when used in concert with Eccentric loading

GTN Veno-dilatation J Bone Joint Surgery 2008 RCT small cohort Limited benefit

PRP (Platelet Rich Plasma)

ECSWT AOFAS Vol 41 ;4 2020 RCT small cohort Limited benefit ramsayhealth.com



Cochrane Database of Systematic Reviews

Injection therapies for Achilles tendinopathy (Review)

Kearney R5, Parsons N, Metcalfe D, Costa ML

Tendons



Physiotherapy

- 82% full return Alfredson eccentric loading compared to 36% with
- concentric. Silbernagel et al 2001 Alfredson et al 1998
- Orthotics;
 - Heeled shoe, insole (wedge)/ heel lift; Heel pads
- Non-operative management is 65 90% successful



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U/S guided high-volume injection into the neo-vessels of tendinosis

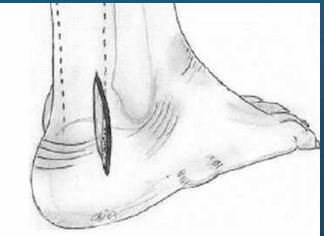






Haglund's deformity





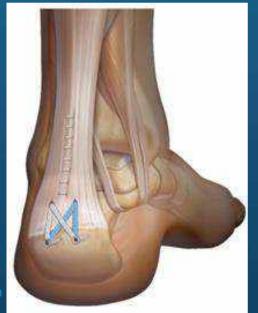








Achilles Insertional Calcification

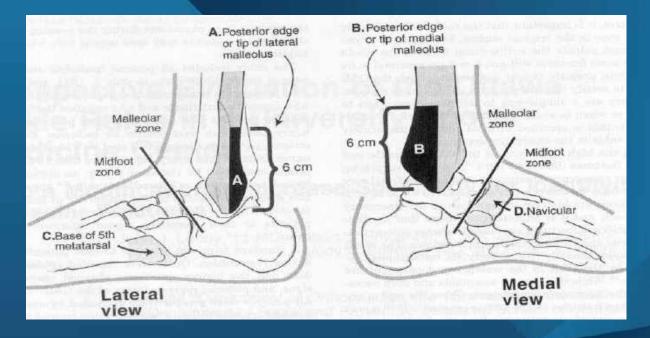








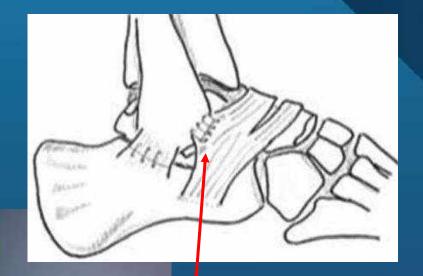
Ankle injuries
OTTAWA CRITERIA:
do we need an x-ray?



- Non-weightbearing after injury or in emergency dept/clinic
- Tenderness over malleoli (posterior ½ lateral malleolus), talus, calcaneus
- Inability to ambulate 4 steps

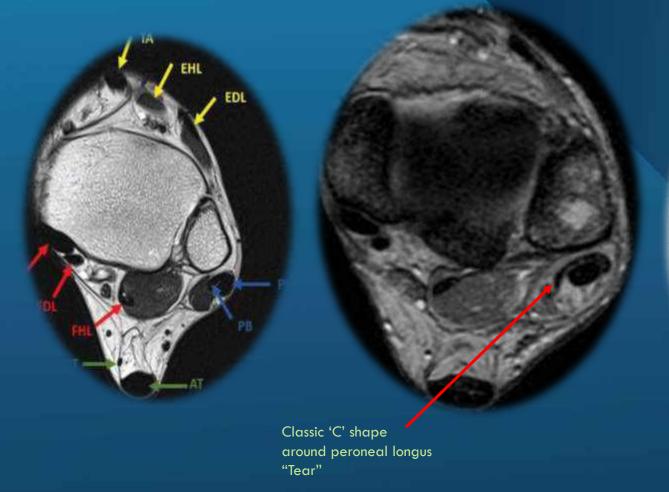


Anatomical repair



Ankle internal Brace
Augments anatomical
repair Increases ability
to rehabilitate sooner









Peroneal Subluxation (Ruptured peroneal retinacula)



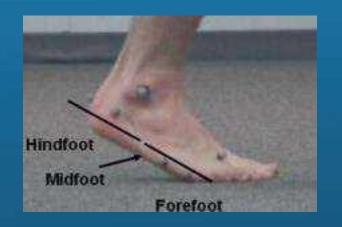
retinaculum

Eversion against resistance replicates subluxation

Ramsay

Health Care

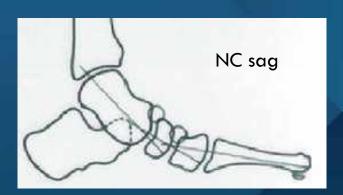






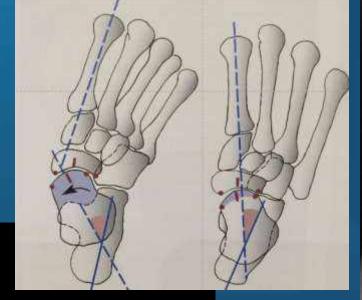
Pes Planus Sagittal Plane dominance







Tri planar deformity
Too many toes
Everted rearoot
Medial displacement osteotomy
Evans Calcaneal opening wedge osteotomy
with graft
Posterior tibilalis plication/reefing
Spring ligament repair



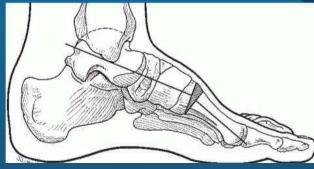


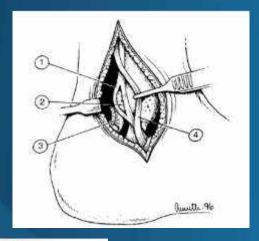


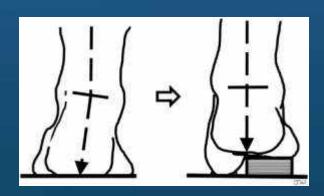




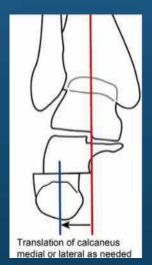
Pes Cavus

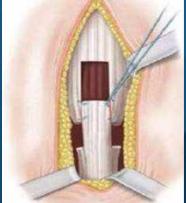




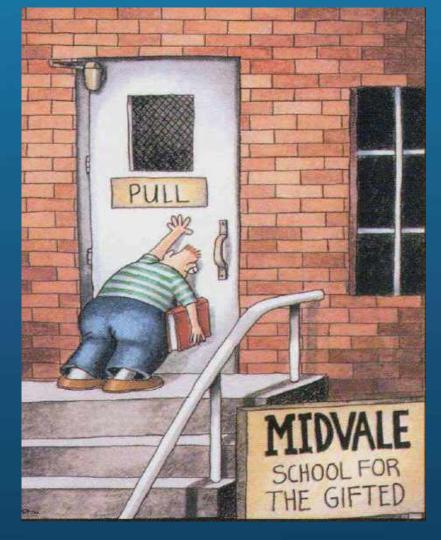












Thank you listening

Any Questions?

