**Biomechanics - Midfoot**
Consider as 3 columns:
- medial/middle/lateral
- ROM: lateral > medial > middle
- Lateral column = compensatory motion, accommodates to uneven ground

**Biomechanics - Midfoot**
- Nonessential vs. essential joints
  - Lateral column is “essential” as compared to medial or middle columns (Hansen)

**Nonunion**
- Can confirm with CT

**Lateral Column Arthroplasty**
- Preserve collateral and plantar ligaments as resection performed

**Lateral Column Arthroplasty**
- Create “anchovy” from peroneus tertius or long toe extensor
- Temporary pin fixation

**Ceramic Interposition Arthroplasty**
- Dowel resection of joints
  - Burr initially
  - Use flouro to confirm center of the joint
Ceramic Interposition Arthroplasty

- Dowel resection of joints
  - Power spherical rasp
- Sizers available
  - 9-14 mm
  - Distract but maintain cortical rim

Case #1

- Spacers inserted
- 11mm most common

Lateral Column Arthrosis (or nonunion)

- **Arthrodesis or Arthroplasty?**
  - Lateral column tarsometatarsal interpositional arthroplasty is a simple procedure to perform
  - Avoids the lengthy recovery of arthrodesis and its risks of nonunion, failed hardware and gait disturbance

References: