Manual Therapy Techniques for the Lower Extremities

4-Corners OIG

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Ankle Techniques

- Talo-Crural/Subtalar Joints
 - AP Mobilization
 - PA Mobilization
 - Lateral glides
- > Cuboid Manipulation

- > Distal Tib-Fib Joint
 - Prone, AP/PA Mobs
 - Sidelying, PA/AP Mobs

> Subtalar Manipulation

Talo-Crural Joint (TCJ): AP Mobilization Progression



- Patient position
 - Supine, ankle off table
- Therapist position
 - Proximal hand: Stabilizes distal leg by grasping just proximal to malleoli. May rest your knuckles on plinth for added support.
 - Distal (mobilizing) hand: Cups the anterior talus into the 1st web space.
 - Use your thigh to help stabilize the foot.
- Mobilization technique
 - Mobilize with a posteriorly directed force on the talus into the restrictive barrier.
 - Progressively increase ankle DF with your thigh.

Talo-Crural Joint (TCJ): PA Mobilization Progression



- Patient position
 - Prone, ankle off table
- > Therapist position
 - Proximal hand: Stabilizes distal leg by grasping just proximal to malleoli.
 May rest your knuckles on plinth for added support.
 - Distal (mobilizing) hand: Cups the posterior calcaneus into the 1st web space.
 - Use your thigh to help stabilize the foot.
- > Mobilization technique
 - Mobilize with an anteriorly directed force on the calcaneus into the restrictive barrier.
 - May use thigh to help guide motion.

Talo-Crural/Subtalar Joint: Lateral Glides



- > Patient position
 - Side lying, ankle off plinth
- > Therapist position
 - Proximal hand: Stabilizes distal leg by grasping just proximal to malleoli. Rest your forearm across the patient's medial leg for added support.
 - Distal (mobilizing) hand: Grasps the talus and calcaneous with the heel of the hand over the talus.
 - Position your body so your arm is perpendicular to the patient's leg.
- > Mobilization technique
 - Graded lateral mobilization is applied by pushing downward toward the floor.
 - Move both hands inferiorly one joint to change from TC to ST joint mobilization.

Distal Tib-Fib Joint: Prone, AP / PA Mobilization





- > Patient position
 - Prone, knee flexed 90 degrees
- > Therapist position
 - AP Glides: Hypothenar eminance of one hand on the anterior lateral malleolus and thenar eminance of other hand on posterior medial malleolus for stabilization
 - PA Glides: Hypothenar eminance of one hand on the posterior lateral malleolus and thenar eminance of other hand on anterior medial malleolus for stabilization
- > Mobilization technique
 - AP Glides: Mobilize with a posteriorly directed force on the lateral malleolus
 - PA Glides: Mobilize with an anteriorly directed force on the lateral malleolus

Distal Tib-Fib Joint: Sidelying, AP / PA Mobilization





- **Patient position**
 - Sidelying with medial malleolus on table and remainder of foot off table
- > Therapist position
 - Bottom hand positioned so that heel of hand lies over the anterior distal fibula.
 - Top hand grasps the bottom hand and pulls the wrist into extension to help localize pressure on the anterior fibula.
- Mobilization technique
 - Apply posteriorly directed mobilization to the anterior surface of the distal fibula.
 - PA Glides performed in same manner with hands positioned on posterior surface of distal fibula.

Subtalar Joint Manipulation



- Patient position
 - Supine with ankle off table
- Therapist position
 - Grasp the patient's foot with both hands.
 - Small or ring fingers lie just below the neck of the talus.
 - Both thumbs provide firm pressure to the mid forefoot.
- Mobilization technique
 - Engage restrictive barrier with ankle DF & distraction.
 - Evert & DF forefoot to fine-tune barrier.
 - Apply a HVLA thrust in a caudal and DF direction (scooping motion).

Cuboid Manipulation

- Patient position
 - Prone with knee flexed
- > Therapist position
 - Grasp the patient's foot with both hands.
 - Localize the position of the cuboid using the 5th MT.
 - Position thumbs on plantar surface of cuboid, hands grasp patient's midfoot.
- Mobilization technique
 - Guide foot into plantarflexion and inversion to find restrictive barrier.
 - Apply HVLA thrust in "whiplike" fashion while sustaining localized pressure on the plantar aspect of cuboid.

