Shin Splints and Hamstring Issues	
A Coaches' Perspective	
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Shin Splints	
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· Anterior Shin Splints	
Posterior Shin Splints	
Compartmental Syndromes	
Stress Fractures	
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Shin Splints	
oniii opiints	
· Issues	
○ Muscle-Bone Detachment	
o Inflammation of the Periosteum	
Stress ReactionsStress Fractures	
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Shin Splint Management

- Diverse Approach to Management
- There is No Single Answer!
- Understanding Preparation and Rehab Differ



Approaches to Shin Splint Management

- Managing Surfaces
- · Lower Leg Strength
- Lower Leg and Foot Mobility
- · Biomechanical Correction
- Skill Correction
- · Training Design
- · Inflammation and Pain Management



Lower Leg Strength

- · Developing Impact Resistance
- · Mild In Place Jumps and Skips
- · 15-30 Second Workbouts
- · 15-30 Second Rest Intervals
- · 8-12 Total Sets
- · Shoes vs. Barefoot
- · Changing Surfaces Sand, Grass, Court, Track



LLC Exercises

Lower Leg Strengthening Exercises



Lower Leg and Foot Mobility

- The Foot in Function
 - Force Applicator
 - Shock Absorber
- Approaches
 - \circ Prescriptive Exercises
 - o Physical Manipulation



Lower Leg and Foot Mobility

- Prescriptive Exercises
 - o Barefoot Work
 - Balancing Exercises
 - Walking Alterations



Prescriptive Exercises Lower Leg Strengthening Exercises SPORTS MEDICINE CENTER OF THIBODAUX REGIONAL **Prescriptive Exercises Lower Leg Strengthening Exercises Prescriptive Exercises**

- o Barefoot Hurdle Mobility
- Toe/Towel and Rotation Walks
- Side-Foot/Heel/Toe Walks



Physical Manipulation

- Massage and Manipulation
 - $_{\odot}$ Away From the Injury Site
 - o At the Injury Site
- Cautions



Biomechanical Correction

- Controlling Pronation and Impact
- · Chronic Foot Issues
- Arch Support Possibilities
- Orthotic Possibilities



Skill Correction

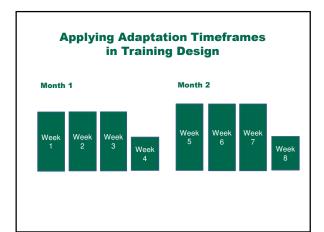
- · Common Causes
 - o Poor or Unbalanced Strength Levels
 - o Poor Running Mechanics
 - Excessive Backside
 - Late Grounding / Plantar Flexion
 - o Toe-First Jump Penultimate Steps and Takeoffs
 - o Improper Stopping



Training Design

- Frontloading Plyometric Training
- Undulating Training Loads A Must
- · The Value of Rest





Inflammation Management

- · NSAIDs
 - o Pros
 - o Cons
- Holistic Solutions
 - o Arnica
 - o Crystalline Ginger
- Cautions



Shin Splint Prevention

- · Strengthening vs. Impact
- Maintaining Mobility and Flexibility
- Hards and Easys in Training
- · Skill Teaching and Correction



You Have Shin Splints - Now What?

- Avoid Preventative Routines
- Restoring Mobility
- Inflammation and Pain Management
- · Addressing Biomechanical Issues
- · Rest is the Key



Handling Hamstrings

A Guide for the Coach



You Have a Hamstring Injury – Now What?

- · Diagnose and Assess the Injury
- Diagnose and Assess the Injury Cause
- · Immediate Treatment
- · Continue Training
- · Functional Rehabilitation



What's Available

- · Injury Causes
- · Hamstrings Decelerators
- · High Medium Low?
- · The Grabbing Hamstring
- Adductor Magnus The Hamstring Imposter



Causes - Gait Biomechanics

- · Anterior Pelvic Tilt
 - Mechanics
 - Lumbar Tightness
 - Hip Flexor Tightness
 - $\circ \ \, \textbf{Achieving Proper Posture in Acceleration}$
 - $\circ \ \, \textbf{Predisposition Myths}$
 - \circ It's a Skill , Not a Condition
 - o Overtraining Issues
 - Oversquatting
 - Rounded Backs Contrasting Training









Causes - Gait Biomechanics

- · The Foot and Ankle
 - o The Talus
 - o The Navicular Bone
 - $_{\circ}\,$ The Head of the Fibula
- · Diminished Dorsiflexion
 - o The Flip Test
 - Mechanics of the Injury
- Solutions
 - o Ankle Mobility
 - o Possible Adjustment



Causes - Gait Biomechanics

- · Weakness Never!
- Altered Neurology and Biomechanical Disadvantages
- · Strength Misconceptions



Continued Training

- · Stay in the Plan, but Pain Free
- Exercise Alterations
- · When Healed....
 - o Reteaching
 - o Improved Acceleration Patterns
 - o Risk Mitigation Distance Choices in Run Training
 - $_{\odot}$ Avoiding Excessive Running and Bilateral Work



Functional Rehabilitation Guidelines

- · Pain Free
- No Stretching at the Injury Site
- · Stretching Surrounding Areas
- Functional Movement Based Rehabilitation



Understanding Eccentric Rehabilitation

- · Concentric and Eccentric Work
 - o Training
 - Competition



Understanding Eccentric Rehabilitation Executive / Concentric Renabilitation Executive / Concentric Renabilitation CONCENTRIC From Concentric Proce Concentric / Concentric Proce Concentric Rehabilitation Concentric Rehabilitation

Functional Rehabilitation Guidelines

- Progressions
 - o Concentric to Eccentric
 - Slow to Fast
- · Exercise Sequence
 - 1. Walking
- 2. Easy Jogging
- 3. Jogging
- 4. Running
- 5. Straight Leg Bounds
- 6. Sprinting





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