

The Footballers 7 Deadly Sins

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Not enough core strength
 Not enough balance retraining
 Not enough hamstring strength
 Too many ACL Injuries
 Not enough flexibility/warming up
 Not enough recovery
 Not enough Rehabilitation







1. Core Strength

• Core strength does not mean strong Abs

Definition – the ability to dynamically stabilize and control your trunk on top of your legs whilst changing body position

- Includes abdominals
 - pelvic floor and diaphragm
 - gluteals
 - Hip Flexors
 - Back extensor muscles
- Better core strength =
 - less likely to fall over
 - less likely to get pushed off the ball
 - less likely to succomb to a tackle
 - less likely to get injured, back pain, ACLs, hamstrings



1. Core Strength









2. Balance

- Scientifically
- people with reduced proprioception and poor postural sway get injured more often
- Balance training can prevent Ankle and Knee Injuries
- Previous history of injury = greater chance of injury reoccurring
- use balance as a training tool
- -If injured do at home eg. Down ball, eyes closed, jumping, landing -At training don't waste time include it as part of your warm up



3. Hamstring Strength

- Hamstring Strains most frequent injury in AFL
- Up to 31% injury recurrence
- Reduced strength is related to hamstring injuries
- Other Factors
 - Core strength,
 - neuro-muscular control balance
 - gluteal strength
 - Tight Hip Flexors
 - Tight Quadriceps



Nordics



 http://www.youtube.com/watch?v=oa6Ai5ty6oY&NR=1&fe ature=fvwp

Hamstring Research

- (Peterson et al.)
- Nordic Curls decrease injury rate by 70%
- Nordic Curls post injury can reduce injury rate by 85%
- Start with 1 set of 5 once per week
- 10 week program finishing with 3 x10 x2 week
- Hard exercise to do
- Be careful post injury
- Watch for DOMs
- Strength Sprinters 16 weeks to get full strength
- At 6 weeks 90% strength
- Who thinks they can come back at week 3???



4. ACL Injuries

- Up to 50% of ACL injuries occur in a non-contact mechanism
- It is this 50% which can be drastically cut





ACL Injuries





J.

How to Land

- Correct Landing can cut ACL injury rate by 50%
- Always land on 2 feet where possible
- Avoid landing with a straight knee
- Avoid going "Knock kneed"
- Get stronger Hips, keep pelvis level
- Practice step downs avoiding knock knees
- Practice jumps, hops, landing
- Practice Balance
- Try to make it feel natural



5. Not enough Flexibility Or Warm up



Stretching/Warm up

Stretching

- Can be important if you are a stiff jointed person
- Not essential if you are naturally flexible
- Regular stretching on non-training days may actually increase strength of connective tissue

Warm up

- Essential
- If you are late still do warm up
- Incorporate dynamic, functional movements



Hamstrings

• Hamstrings

• Want 70 degrees true straight leg raise at least





Femoro-Acetabular Impingement



- Monitor Hip Joint ROM
- Internal Rotation
- Flexion
- Cause of groin pain and Osteitis Pubis



ANKLE ROM



- Reduced
 dorsiflexion
- Important for shock absorption when you run or land
- Linked to knee, ankle, back and hip injuries
- Minimum 12 cm
- Ice bucket ex



6. Recovery

- Start Immediately
- Ice bath / Cold shower reduce Body Temp
- Cool Down
- Identify injuries ++++
 - PRICER
- Re-hydrate
- Alcohol slows recovery by 3 days
- Focus on restoring flexibility
- Sleep
- Rest
- Don't overtrain basketball, other sports etc





- Many injuries can be avoided
- Load Management too many sports, too much training
- Groin/Adductor Problems overload
- Osteitis Pubis
- Shin Splints/Stress Fractures
 - Israeli Army
 - \$Millions on shoes
 - \$Millions on orthotics
 - Strength/stretching Programs
 - Nothing worked
 - SLEEP 8 hours Day



7. Rehabilitation

- Muscle Injuries (tear/cork)
- Rest 4-5 days protect muscle tissue to avoid excessive scar
- Then progressive strength
- Remember 90% strength 6 weeks
- Full recovery 16 weeks (professional sprinters)
- High rate recurrence
- Get an opinion
- Don't want "3 strains in 4 weeks"



Rehabilitation

- Joint Injuries
- Ligament Injuries often improve faster if splinted/braced
 appropriately
- Swelling management
- Then progressive ROM exercise
- strength
- Balance
- Functional Training
- Why start 3 weeks down the track??



Rehabilitation

- Shoulder Dislocation
- Up to 70% recurrence without surgery
- Need comprehensive Rotator Cuff / band exercises for 3 months + intensive
- Maintenance exercises for rest of life poor compliance
- Surgery is recommended for people under 25
 - 3-15% recurrence



Rehabilitation

Ankle Sprain

- Initial Management crucial
- Ice and compress until swelling goes
- Ice Bucket regime to get mobility back
- Balance
- Opinion Sprain = Torn Ligaments
- Return to sport when ready full hop, jump, full lunge
- Completed 2 training sessions

