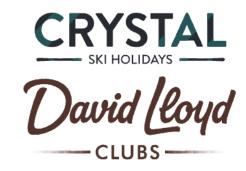






SNOWSPORT ENGLAND

















X3 per week

INJURY PREVENTION TRAINING PROGRAM

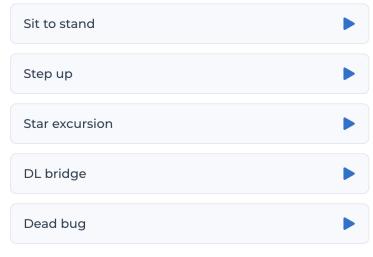
For each exercise, aim to complete between 8-12 repetitions per set and x3 sets (except for planks when aim to hold for 20-30s x 3 sets).

For further progression of injury prevention exercises, consider implementing plyometric movements such as lateral pogos, bounding and single leg landings.



EARLY PHASE (0-2 WEEKS)

HOME EXERCISE PLAN



GYM-BASED PLAN

Goblet box squat	•
Weighted step up	•
Star excursion	•
DL bridge	•
Dead bug	•





Confidence

Believe in your own abilities

Commitment

Continued interest and work-rate over time



Control

Managing emotions e.g. anxiety

Concentration

Ability to focus on the task



LOUISE PODE









KIMBERLEY KAY



DR CAROL PORTER





Research: Environmental Conditions



International Journal of Sports Medicine



392 Knee ACL-injured skiers,



392 Uninjured controls matched for sex and skiing skill



Risk factors:

Fresh snow (OR 10.5), Grippy snow (OR 7.8), Icy slope (OR 12.4), Very cold/cold temperature (OR 1.6), Skiing on a blue run (OR 6.9)



BMJ Journals

Injury Prevention

Effect of environmental conditions on injury rates at a Colorado ski resort

(b) Lauren A Pierpoint ¹, **(b)** Zachary Y Kerr ², Gary Grunwald ³, Morteza Khodaee ⁴, Tessa Crume ¹, R. Dawn Comstock ¹











Article

Risk Factor Analysis of Ski and Snowboard Injuries During the 2023/2024 Winter Season: A Single, High-Volume Trauma Center **Database Analysis**

Michele Paolo Festini Capello ^{1,*}, Pieralberto Valpiana ^{1,2}, Giuseppe Aloisi ³, Giovanni Cristofolini ¹, Svea Caren Misselwitz ¹, Giuseppe Petralia ³, Mario Muselli ³, Salvatore Gioitta Iachino ¹, Christian Schaller ¹ and Pier Francesco Indelli 1,2,4,5



579 patients returned questionnaires



More ski injuries than snowboard, knee injuries most common (30%)



🥬 Fractures more common in older, Ligament injuries in younger

'Fatigue is underestimated, and the general physical preparation is often lacking for sports like skiing and snowboarding.'



Research: Warm-up





Original research articles

Search term: 'warm-up' in the title AND:

Soccer: 100 hits

Football: 69 hits

Cycling: 95 hits

Running: 126 hits

Basketball/Netball: 29 hits

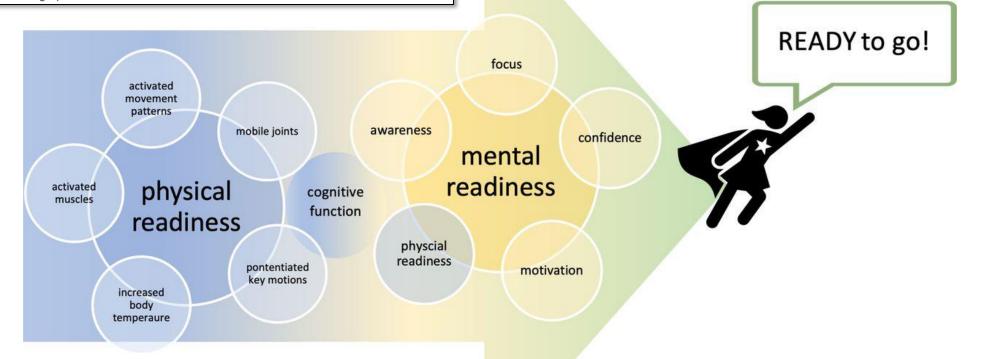
Ski/Snow: 5 hits

ONLY 5 HITS!



BMJ Open Sport & Exercise Medicine Before hitting the slopes: athlete and staff perspectives on warm-up and activation in high-performance snowsports

Lisa Beck ¹, ^{1,2} Sheree Bekker, Evert Verhagen ¹, Caroline Bolling, Jörg Spörri ^{1,2}





BMJ Open Sport & Exercise Medicine

International Ski and Snowboard Federation consensus statement on warm-up and cool-down in competitive alpine and freestyle skiers and snowboarders

Jörg Spörri , ^{1,2} Lisa Beck , ^{1,2} Oriol Bonell Monsonís , ³ Marine Alhammoud , ⁴ Roald Bahr , ⁵ Sheree Bekker , ⁶ Dave Collins , ⁷ Lars Engebretsen ⁶, ⁸ Julie Harvey, ⁹ Hubert Hörterer, ¹⁰ Gerald Mitterbauer, ¹¹ Johannes Scherr , ^{1,2} Wolfgang Schobersberger , ^{10,12} Jan Seiler , ¹³ Maarit Valtonen , ^{10,14} Karlheinz Waibel, ¹⁵ Tina Weirather, ¹¹

Vincent Gouttebarge , 16,17 Caroline Bolling , 3,16 Evert Verhagen 3 At Hotel (Morning) Light aerobic work Mobility **On-Snow** High quality relaxation CD runs on the hill/track Fueling Continue reperfusion Caffeine Refuelling Know the rough plan Off-Snow Off-Snow At Start At Finish Upregulation of focus Light intensity aerobic work Getting increasingly "serious" Narrowing of focus Cardiovascular and Stretching/ mobility Mid- to high-intensity respiratory down-regulation Aerobic work cardiovascular activation Mental downregulation Mobility Readiness Sport-specific mobility Dealing with the outcome Neuromuscular activation Neuromuscular activation Start reperfusion > Increasing Intensity > Particular focus on snow (compression, legs up...) Sports-Specificity At Hotel (Evening) sport discipline-specific Refueling Complexity Avoid longer transition times: demands (e.g., core muscles) Know the exact schedule Long-term training content re-WUP may be indicated WUP runs on the hill/track Depending on the day PAP of the performance intensity and the meso and **On-Snow** relevant muscles macro planning Narrowing of focus Psychological up-/down-Physiotherapy/massage regulation, imagery Perception of the own body Cold water immersion and environmental conditions Chill time Brief muscle activation with Debriefing (recap-evaluationski/board boots refocus) Imagery WUP runs on the hill/track Fueling Extension of focus **Preparation Immediate Warm-up** Immediate Cool-down Recovery Training/ (Same Day)

SVEN SKI (15-20 min before (15-20 min after (Same Day) Competition **CLINIC** training/competition) training/competition)



SVEN SKI CLINIC ICE-BREAKER warm-up

A 3 minute warm-up

- raises heart rate
- increases blood flow
- warms muscles
- increases joint range
- synchronises muscle groups
- optimises function
- reduces injury risk



Take time to fit this in!





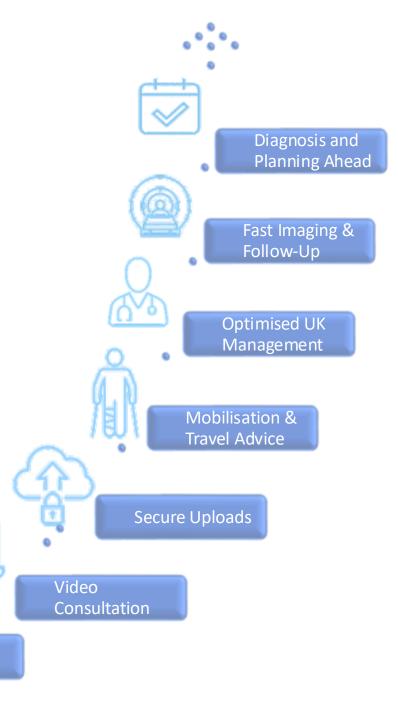
but, what if...



Road to Recovery



Immediate Support



Thank-you!



svenskiclinic.com