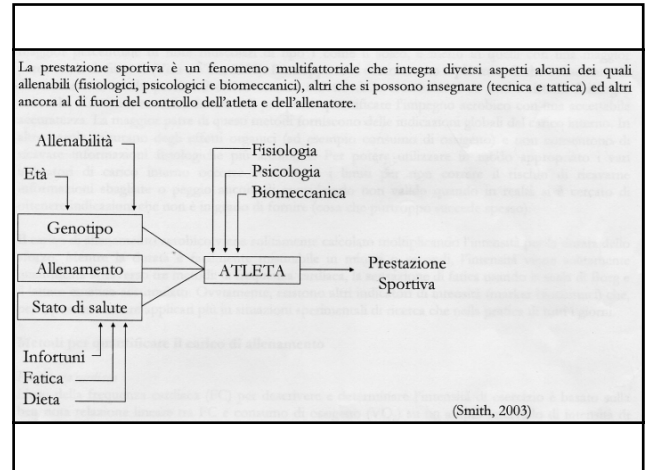





CAVALESE
3 agosto 2018

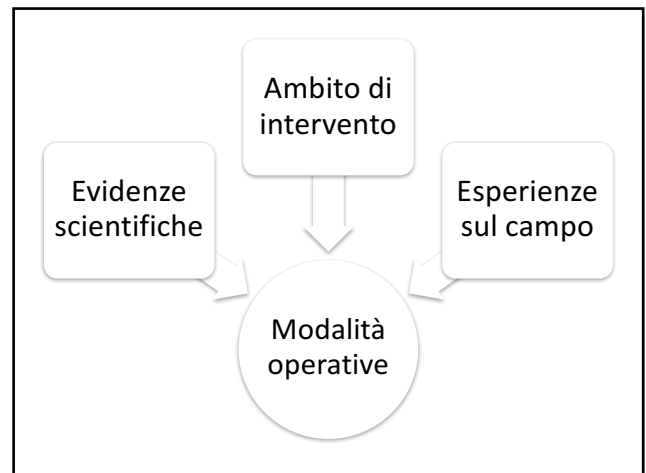
**Ruolo e compiti del medico di squadra
La gestione dello staff sanitario**

Piero Benelli – Medico squadra nazionale seniores maschile



I punti chiave

- Assistenza medica generale
- Alimentazione
- Integrazione
- Antidoping
- Gestione del recupero e dei carichi di lavoro
- Gestione del trauma: prevenzione, terapia e riabilitazione
- Costruzione e gestione dello staff sanitario
- La comunicazione all'interno degli staff

I livelli di intervento

- Squadra Nazionale
- Club (alto/medio livello)
- Club "dilettantistico"
- Settore giovanile

Assistenza medica generale

- Anamnesi ed informazioni – Cartelle cliniche
- Programma di prevenzione / gestione
- Controllo peso, % grasso corporeo, etc.
- Analisi ematochimiche periodiche
- Idoneità agonistica
- Assistenza sanitaria generale
- Gestione del recupero e dei trasferimenti



Anamnesi - Informazioni

- Scheda informativa
- Scheda di entrata
- Scheda di uscita

Scheda n.1

- Informazioni su:
 - Antropometria
 - Idoneità
 - Problematiche alimentari
 - Problematiche integrative
 - Problematiche traumatologiche
 - Problematiche mediche (allergie, uso di farmaci, etc.)
 - Anamnesi recente
 - Trattamenti e lavori abituali
 - Utilizzo di tutori, plantari, bendaggi, etc.
 - Procedure TUE attivate

Scheda n.2

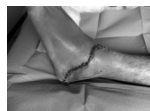
- Dati antropometrici
- Anamnesi recente
- Esame obiettivo
- Problematiche traumatologiche principali
- Indicazioni per la gestione

Scheda n.3

- Dati antropometrici
- Eventuali infortuni e/o problematiche traumatologiche
- Esami diagnostici effettuati
- Trattamenti (farmacologici, fisioterapici, etc.) effettuati
- Integrazioni effettuate
- Test di valutazione effettuate
- Note

Staff societari

- Trasmissione delle informazioni (selezionare)
- Duplicazione degli esami e dei referti
- Cfr. fra operatori dello staff (!)
- Gestione degli esami diagnostici
- Schede iniziali e successive
- Foto e documentazione
- Gestione dei rapporti



FIPAV 2018 - Analisi ematologiche

- | | |
|-------------------------------|-----------------------|
| • Emocromo con formula | • Proteina C r. |
| • VES | • Uricemia |
| • Glicemia | • Transferrinemia |
| • Creatininemia | • Elettroliti sierici |
| • GOT | • TSHreflex |
| • GPT | • Testosterone |
| • Bilirubinemia (dir. e ind.) | • Cortisolemia |
| • Sideremia | |
| • Ferritina | • Es. urine standard |
| • Colesterolemia | |
| • Col. HDL | |
| • Trigliceridemia | |
| • Elettroforesi proteica | |
| • CPK | |

Alimentazione



IL RISTORANTE – Villaggio Olimpico



IL RISTORANTE – Villaggio Olimpico



IL RISTORANTE



IL RISTORANTE

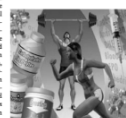


Integrazione

Supplements and Sports

DAVID M. JENKINSON, DO, and ALLISON J. HARRBERT, MD, Department of Family Medicine, University of Tennessee College of Medicine-Chattanooga Unit, Chattanooga, Tennessee

Use of performance-enhancing supplements occurs at all levels of sports, from professional athletes to junior high school students. Although some supplements do enhance athletic performance, many have no proven benefits and have serious adverse effects. Anabolic steroids and ephedrine have life-threatening adverse effects and are prohibited by the International Olympic Committee and the National Collegiate Athletic Association for use in competition. Blood transfusions, erythropoietins, and dehydroepiandrosterone are also prohibited in competition. Caffeine, creatine, and sodium bicarbonate have been shown to enhance performance in certain contexts and have few adverse effects. No performance benefits have been shown with vitamin A, beta-hydroxy-beta-methylbutyrate, creatine, human growth hormone, and iron. Carbohydrate-electrolyte beverages have no serious adverse effects and can aid performance when used for fluid replacement. Given the widespread use of performance-enhancing supplements, physicians should be prepared to counsel athletes of all ages about their effectiveness, safety, and legality. (Am Fam Physician. 2008;78(9):1230-1246. Copyright © 2008 American Academy of Family Physicians.)



SORT KEY RECOMMENDATIONS FOR PRACTICE

Clinical recommendations	Evidence rating	References
Evidence fails to show enhanced athletic performance with amino acids, beta-hydroxy-beta-methylbutyrate, chromium, human growth hormone, and iron.	B	4-6, 17, 18, 26, 27, 36-39
Evidence shows dangerous adverse effects with use of anabolic steroids, blood transfusion, erythropoietin, ephedrine, and pseudoephedrine.	B	19, 32, 33, 45-50
Evidence demonstrates a context-specific athletic performance enhancement with caffeine, carbohydrate-electrolyte beverages, creatine, and sodium bicarbonate.	B	21-25, 28, 29, 40-42

A = consistent, good-quality patient-oriented evidence; B = inconsistent or limited-quality patient-oriented evidence; C = consensus, disease-oriented evidence, clinical practice, expert opinion, or case series. For information about the SORT evidence rating system, go to <http://www.earlyviewpoint.com>.

Table 1. Effectiveness and Legal Status of Supplements Used in Sports

Supplement	Postulated effect	Evidence of effectiveness	Adverse effects	Legal status
Amino acids ¹⁴	Increase growth hormone levels	No effect	Minimal	Legal
Anabolic steroids ⁹	Increase lean muscle mass	Effective	Significant and dangerous	Illegal
Androstenedione and dehydroepiandrosterone ¹⁰	Increase testosterone and lean muscle mass	No effect	Significant	Prohibited by IOC ¹¹ and NCAA ¹² . Androstenedione is legal under the Anabolic Steroid Control Act of 2004 ¹³ .
Beta-hydroxy-beta-methylbutyrate ¹⁵	Decrease protein breakdown and increase synthesis	No effect	None, but long-term evidence lacking	Legal
Blood transfusion and erythropoietin ^{16,17}	Increase endurance and oxygen delivery	Effective	Significant and dangerous	Prohibited by IOC ¹¹ and NCAA ¹²
Caffeine ¹⁸	Increase energy and decrease fatigue	Effective	Minimal	Prohibited by IOC ¹¹ and NCAA ¹² above urinary concentrations of 12 mcg per mL and 15 mcg per mL, respectively
Carbohydrate-electrolyte beverages ^{19,20}	Increase energy and decrease fatigue	Effective	None	Legal
Chromium ^{21,22}	Increase lean muscle mass	No effect	Potentially dangerous, but long-term evidence lacking	Legal
Creatine ²³	Increase energy and strength	Effective in limited contexts	Minimal	Legal
Ephedrine and pseudoephedrine ²⁴	Increase energy and decrease fatigue	Ineffective, but mostly negative	Significant and dangerous	Prohibited by IOC ¹¹ and NCAA ¹²
Human growth hormone ²⁵	Increase muscle protein synthesis and strength	No effect, lack of evidence	Significant and dangerous	Illegal
Iron ²⁶	Increase energy and general performance	No effect unless deficiency is present	None below recommended dietary allowance; dosing, toxicity above this level	Legal
Sodium bicarbonate ²⁷⁻²⁹	Increase buffering capacity	Effective in limited contexts	Minimal	Legal

IOC = International Olympic Committee; NCAA = National Collegiate Athletic Association. Information from references 4 through 42.

Cholesterol Metabolism

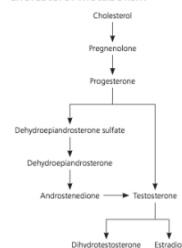


Figure 1. Summary of the endogenous metabolism of cholesterol into multiple hormones. Some of the intermediaries are used as supplements to promote physical performance.

DEFINIZIONE di INTEGRATORE ALIMENTARE

prodotto destinato a un'alimentazione particolare

IMPIEGO: fornire un supplemento di nutrienti con azione "protettiva" o "trofica" allo scopo di ottimizzare il metabolismo e le funzioni fisiologiche dell'organismo

COSA DICE LA LEGISLAZIONE

Decr. Leg. n° 111 del 27 gennaio 1992

art. 1 - comma 1 - gli integratori sono prodotti alimentari che, per la loro particolare composizione o per il particolare processo di fabbricazione hanno le seguenti caratteristiche :

- a) si distinguono nettamente dagli alimenti di uso corrente;**
- b) sono adatti all' obiettivo nutrizionale indicato;**

comma 2 - i prodotti devono rispondere alle esigenze nutrizionali di persone in condizioni fisiologiche particolari per cui possono trarre benefici dall' assunzione controllata di talune sostanze negli alimenti

INTEGRATORI ALIMENTARI

D.L. 21-V-2004, n.169 attuaz.Direttiva 2002/46/CE

Art. 1 – Definizione

1. "...prodotti alimentari destinati ad integrare la comune dieta e che costituiscono una fonte concentrata di sostanze nutritive, quali vitamine o minerali, o di altre sostanze aventi un effetto nutritivo o fisiologico, in particolare ma non in via esclusiva aminoacidi, ac. grassi essenziali, fibre ed estratti di origine vegetale, sia monocomposti che pluricomposti, in forme predosate"

PRODOTTI DESTINATI AD UNA ALIMENTAZIONE PARTICOLARE**D.L. n° 111 del 27 Gennaio 1992**

Procedure per commercializzazione, autorizzazione e notifica etichetta

Prodotti Autorizzati: il Ministero della Salute provvede all' analisi e verifica del prodotto (corrispondenza tra etichetta e contenuto)

Prodotti Notificati: la responsabilità è dell' azienda produttrice che presenta al Ministero un' etichetta con la dichiarazione dei contenuti

Notifica al Ministero della Salute

La notifica è solo una comunicazione scritta.

L' azienda comunica al Ministero della Salute che immette in commercio un nuovo prodotto, sottoponendo l' etichetta al giudizio dei funzionari.

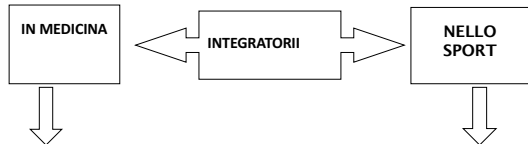
Vale la regola del "silenzio assenso"

Se entro 90 giorni non arrivano comunicazioni è OK

Le regole cambiano spesso

I funzionari sono spesso in grave ritardo nel dare risposte

Campi di applicazione degli integratori



- > Per combattere l'anemia
- > Per migliorare la microcircolazione
- > Per contrastare l'astenia
- > Per recuperare il sonno
- > Per ritardare il decadimento cerebrale
- > Per stimolare le difese immunitarie
- > Per controllare il colesterolo
- > Per regolarizzare l'intestino
- > Per contrastare la depressione ...

- > Per ottimizzare lo stato nutrizionale
- > Per mantenere più a lungo lo stato di forma ed efficienza
- > Per recuperare più velocemente
- > Per ottimizzare la performance
- > Per contrastare il decadimento muscolare e favorire l'anabolismo
- > Per contrastare lo stress ossidativo
- > Per coadiuvare scatto e resistenza
- > Per migliorare il trofismo delle cartilagini

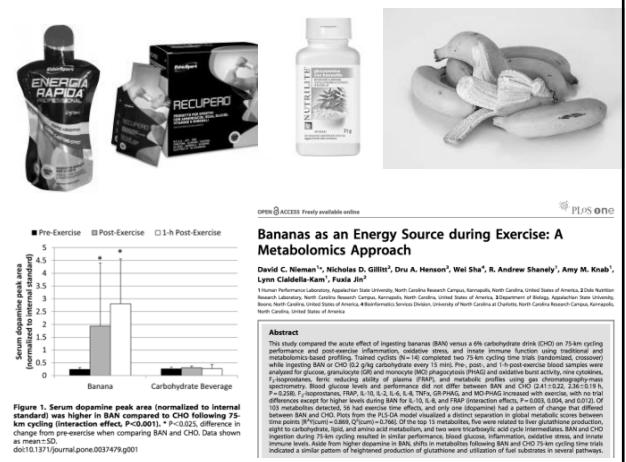
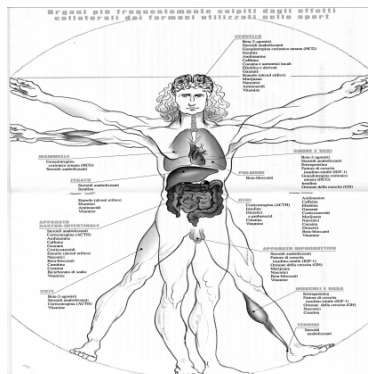
CARATTERISTICHE "IDEALI"
DI UN INTEGRATORE

- INNOCUO
- "LEGALE"
- NECESSARIO
- EFFICACE



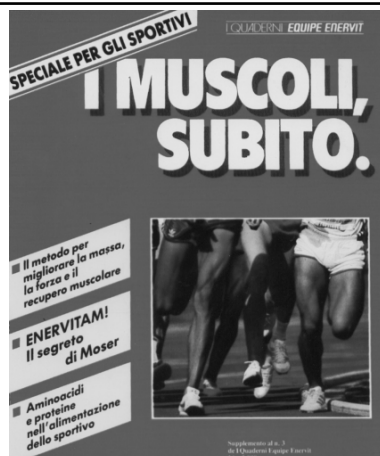
UTILIZZO DEGLI INTEGRATORI E PRODOTTI DIETETICI PER LO SPORT

- INUTILE
- IRRAZIONALE
- DISEDUCATIVO
- PERICOLOSO



- Spesso l'assunzione di integratori non avviene su basi scientifiche e gli effetti ricercati non sono spesso documentati
- L'assunzione delle dosi raccomandate di molti integratori, isolatamente, non ha probabilmente effetti nocivi sulla salute, ma gli effetti sull'assunzione di alte dosi degli stessi non è ben conosciuta

- Spesso gli atleti assumono contemporaneamente più di un integratore, ma si sa molto poco su eventuali effetti dannosi sull'assunzione di più integratori
- Alcuni integratori possono essere sicuri ed efficaci assunti singolarmente, ma possono avere effetti indesiderati e dannosi quando presi con altre sostanze
- Necessitano nuovi studi per determinare la dose ottimale, le modalità e i tempi di assunzione dei vari integratori



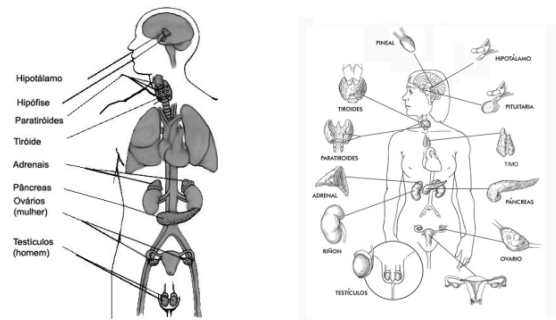
I rischi

- Sovradosaggio
- Assunzione contemporanea di più integratori e di mix non controllati
- Messaggi fuorvianti
- Dipendenza psicologica
- No "more must be better"!
- L'integrazione non fa la differenza, è un supporto per la prestazione dell'atleta che deve essere valutato e utilizzato basandosi su criteri adeguati (necessità, utilità, efficacia, sicurezza, etc.)

Nazionale Volleyball maschile – Integrazione 2018

- Giornata tipo di allenamento (v. allenamento tecnico / sessione di preparazione fisica)
 - Arginina + BCAA
 - Omega3
 - Sali minerali e barrette (proteiche/energetiche)
- Partita
 - Prima e durante: energetici (carboidrati) di varia tipologia
 - Dopo: integratori multisostanze per recupero
- ***Altre integrazioni: da discutere con il medico in base alle esigenze individuali**

Educazione e lotta al doping



CODICE MONDIALE ANTIDOPING STANDARD INTERNAZIONALE

LISTA DELLE SOSTANZE E METODI PROIBITI

IN VIGORE DAL 1° GENNAIO 2018

Lista Wada

- Sostanze sempre proibite
- Sostanze proibite in-competition
- Sostanze proibite in particolari sport
- Metodi proibiti

**In Italia 2000 test circa/anno
2% positività di cui 44% cannabinoidi**



Identification of Anti-Doping Organization
(Logo or Name of the ADO) Appendix 2

**Abbreviated
Therapeutic Use Exemptions
ATUE**

Please complete all sections in CAPITAL LETTERS

beta-2 agonists by inhalation ☐ glucocorticosteroids by ☐
non-systemic routes *

* All routes other than orally, rectally, intravenously and intramuscularly.
Dermatological glucocorticosteroids do not require any TUE

1. Athlete Information

Surname: _____ Given Name: _____
 Female ☐ Male ☐ Date of Birth (day/month/year): _____
 Address: _____
 City: _____ Country: _____ Postcode: _____
 Tel.: _____ (with international code) E-mail: _____
 Sport: _____ Discipline/Position: _____
 International or National Sporting Organization: _____

2. Medical information

Diagnosis: _____

N.B. Any ATUE may be reviewed at any time, by the ADO and/or WADA

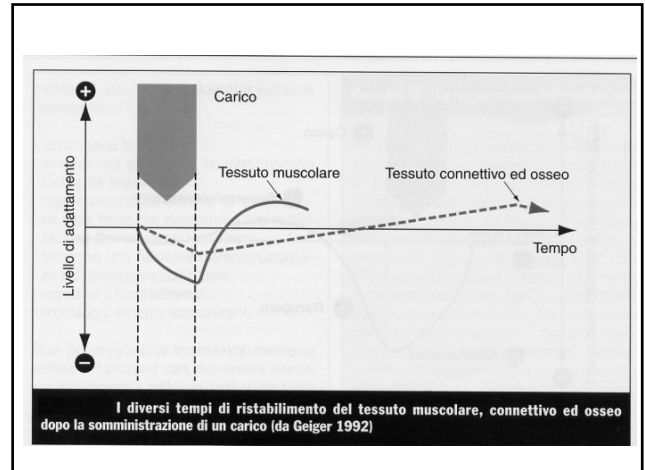
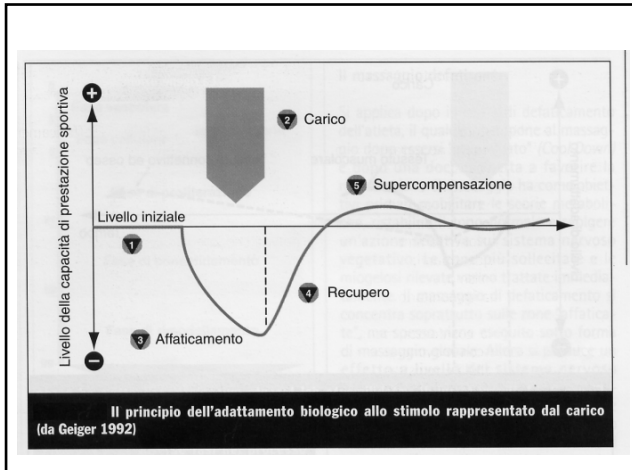
STRICTLY CONFIDENTIAL

Educazione ed informazione

- Riunione iniziale ad ogni raduno
- Programma Adams/Whereabouts
- Informazione specifica e generale
- Controllo e vigilanza
- Conseguenze legali (Legge n.376/2000)

Gestione del recupero e dei carichi di lavoro





".....Mi sono preoccupato soprattutto di evitare infortuni, quindi abbiamo indietreggiato ogni volta che vi era il più piccolo accenno di infortunio. Sono stato anche attento a non commettere errori sul piano della sicurezza nel valutare i sovraccarichi.

Ciò mi permette di evidenziare quella che io considero la seconda "chiave" del successo di Jonathan : il recupero. Il rispetto del recupero ha sempre caratterizzato il suo programma di allenamento : forse questa è una delle ragioni del suo terribile miglioramento del 1995....."

Carl Johnson, allenatore di J. Edwards,
primatista mondiale di salto triplo



"ALZARE L'ASTICELLA"

"NO PAIN, NO GAIN"

"ANDARE SOPRA IL DOLORE"



SETTIMANE TIPO

Lunedì	PESI
	PALLA
Martedì	TECNICA-DIFF
	PALLA
Mercoledì	PESI
	PALLA
Giovedì	TECNICA-DIFF
	PALLA
Venerdì	PESI
	PALLA
Sabato	RIPOSO
	RIPOSO
Domenica	RIPOSO
	RIPOSO

Lunedì	PESI
	PALLA
Martedì	TECNICA-DIFF
	PALLA
Mercoledì	PESI
	PALLA
Giovedì	RIPOSO
	PALLA
Venerdì	ALL PRE GARA
	PARTITA
Sabato	RIPOSO
	PESI+PALLA
Domenica	ALL PRE GARA
	PARTITA

NAZIONALE ITALIANA MASCHILE VOLLEYBALL
STAGIONE 2015

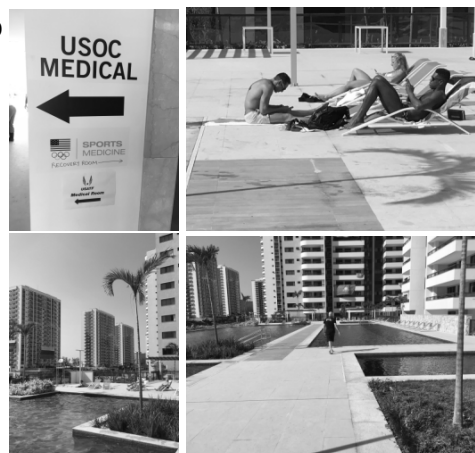
- 4 CONTINENTI
- 21 CITTÀ
- 28 ALBERGHI
- 110 ORE DI VOLO
- 60 ORE DI TRENO
- 30 ORE DI PULLMANN
- 36 PARTITE
- 78 GG. ALLENAMENTI
- E RADUNI



IL RECUPERO



IL RECUPERO

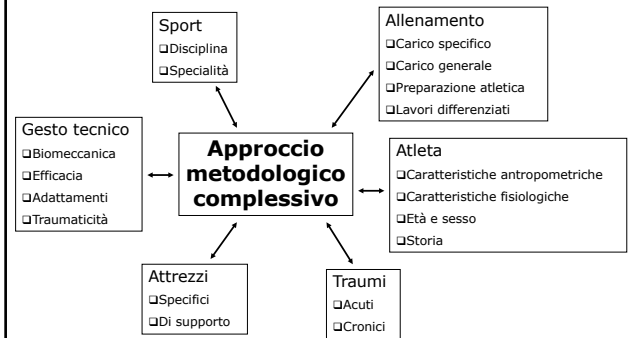


Gestione del trauma

- Prevenzione
- Gestione
- Riabilitazione
- Conoscenza epidemiologica
- Aggiornamento scientifico costante



Sport e Traumatologia



Gestione integrata e prevenzione

- * Conoscenza dell'injury profile della disciplina
- * Conoscenza della storia del giocatore e delle problematiche traumatologiche più recenti
- * Individuazione dei principali fattori di rischio generali ed individuali
- * Organizzazione delle strategie di prevenzione più adeguate in relazione al periodo, alla situazione, all'atleta
- * Valutazione e controllo dell'efficacia delle misure di prevenzione nei vari periodi

*Scand J Med Sci Sports 1996; 6: 228-232
Printed in Denmark. All rights reserved*

*Copyright © Munksgaard 1996
Scandinavian Journal of
MEDICINE & SCIENCE
IN SPORTS
ISSN 0963-7185*

Injuries in elite volleyball

Aagaard H, Jørgensen U. Injuries in elite volleyball.
Scand J Med Sci Sports 1996; 6: 228-232. © Munksgaard, 1996

During the 1993-1994 volleyball season, injuries to players in the two Danish elite divisions were registered by means of a questionnaire survey. Eighty per cent of the players returned the questionnaire. A total of 70 female players reported 79 injuries and 67 male players reported 98 injuries, representing an overall incidence of 3.8 injuries per player per 1000 volleyball hours played. The injury incidence was the same for female and male players. Most injuries occurred in spiking (32%) and in blocking (28%). The injuries were predominantly either acute injuries to fingers (21%) and ankles (18%) or overuse injuries to shoulders (15%) and knees (16%). Shoulder injuries seemed to be a more serious problem in females. During the past 10 years the rate of overuse injuries has increased from 16% to 47% in male elite volleyball, corresponding to a significant increase in the incidence of these injuries from 0.5 to 1.8 injuries per player per 1000 played hours ($P < 0.001$). A possible explanation for this could be a 50% increase in training activity during this period.

H. Aagaard¹, U. Jørgensen²

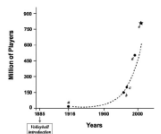
¹Laboratory of Functional Anatomy, Department of Medical Anatomy C, The Panum Institute,
²Unit of Sport Traumatology, Department of Orthopaedic Surgery, Copenhagen County Hospital, Gentofte, University of Copenhagen, Denmark

Key words: injury; volleyball; epidemiology; elite players; injury incidence
Henrik Aagaard, Department of Medical Anatomy C, University of Copenhagen, The Panum Institute, Blegdamsvej 3, DK-2200 Copenhagen N, Denmark
Accepted for publication January 9, 1996

Traumatologia della pallavolo

Infortuni più frequenti:

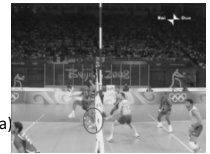
- * Distorsioni caviglia (Bahr, 1994 – Schafle 1993)
- * Traumi dita mani
- * Tendinopatia rotulea (Bisseling, 2007)
- * Tendiniti e traumatismi cronici spalla (Briner, 1999 – Reeser, 2010 – Vang 2001)
- * Neuropatia sovrascapolare (Dramis, 2005 – Witvrouw, 2000)
- * Lombalgia
- * Traumi muscolari (Watkins, 1992)



Volleyball player Injury profile

Traumi acuti: distorsione di caviglia, dita mani

Traumi cronici: sovraccarico funzionale spalla, schiena, ginocchio (jumper's knee [spt.sovrartotuleo], condropatia)



Traumatologia della pallavolo

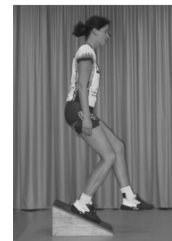
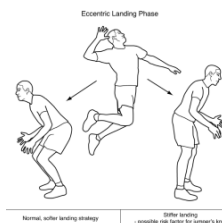
- Infortuni correlati alle azioni di muro e di schiacciata
- Maggiore incidenza di tendinopatia rotulea in giocatori con maggiore forza degli arti inferiori e maggiore capacità di salto; influenza della biomeccanica del gesto



SPORT-SPECIFIC ILLNESS AND INJURY

Jumper's Knee in Volleyball Athletes: Advancements in Diagnosis and Treatment

Garrett S. Hyman



Contents lists available at ScienceDirect

Physical Therapy in Sport

Journal homepage: www.elsevier.com/ptep

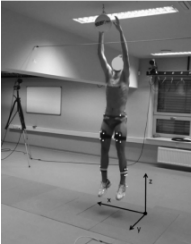
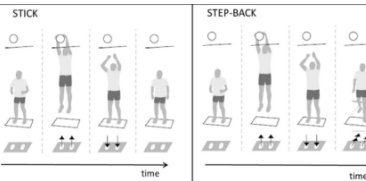
Original research

Lower extremity mechanics during landing after a volleyball block as a risk factor for anterior cruciate ligament injury

David Zahradnik^{a,*}, Daniel Jandacka^a, Jaroslav Uchytíl^a, Roman Farana^a, Joseph Hamill^b

^a Human Motion Diagnostic Center, University of Ostrava, Václavské nám. 40A, 70200 Ostrava, Czech Republic

^b Biomechanics Laboratory, University of Massachusetts, Amherst, MA, USA

Scand J Med Sci Sports 2013; 23: 607-613
doi: 10.1111/j.1600-0838.2011.01430.x

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Published by John Wiley & Sons Ltd

SCANDINAVIAN JOURNAL OF MEDICAL SCIENCE

Training volume and body composition as risk factors for developing jumper's knee among young elite volleyball players

H. Visnes, R. Bahr

Oslo Sports Trauma Research Center, Oslo, Norway
Corresponding author: Håvard Visnes, MD, PT, Oslo Sports Trauma Research Center, PO Box 4014 – Ullevål Stadion, 0806 Oslo, Norway. Tel: +47 23 26 23 97, Fax: +47 23 26 23 07, E-mail: haavard.visnes@helse-bergen.no

Accepted for publication 24 November 2011

week. We did not detect any significant differences between the groups in body composition at the time of inclusion or in the change of body composition during the study period. Conclusion, male gender, a high volume of volleyball training and match exposure were risk factors for developing jumper's knee.

a. RISK FACTORS	
Intrinsic	
SHOULDER	BACK/TRUNK
Anatomy & Biomechanics	
• Mobility impairment • Muscle imbalance/stability • Muscle weakness (SCK, scapula & Scapular asymmetry)	• Spinal dimension • Posture • Trunk weight • Centre of mass position
History of shoulder pain	
Gender	
Age	
Hours of game/training played	
Technique utilized	
Level, category and role of the player in the game	
Extrinsic	
Type of shoes	
Environment	
Competitive situation	
Hardness of the playing surface	

b. SOLUTIONS	
Preventive	
SHOULDER	BACK/TRUNK
• Optimization of the spike technique • Eccentric resistance training • Core strengthening/stability training • Preventing rehabilitation	• Developing trunk muscle motor control, kinesthetic awareness, endurance and coordination • Developing adequate strength power • Exercises to appropriate trunk stability and neutral spine alignment
Diagnostic screening	
Physical Examinations	
Stretching/correct warm up before the game	
Post injury	
- Rest Period - Anti-inflammatory drugs - Surgery	- Rehabilitation Programs: • Following an appropriate kinetic chain (from proximal to distal) • Muscle training (strength and control) • Plyometric Exercises

Sports Med
DOI: 10.1007/s00779-014-0203-9

INJURY CLINIC

Injury Risk Management Plan for Volleyball Athletes

Lachlan P. James • Vincent G. Kelly • Emma M. Beckman
Injury Risk Management Plan for Volleyball Athletes

Table 1 Modifiable and non-modifiable risk factors for the most common volleyball injuries

Risk factor	Modifiable	Non-modifiable
Ankle sprain	Sliding technique with excessive horizontal displacement [35]	Previous ankle injury [10]
	Lower weight-bearing ankle dorsiflexion ROM (mm) [26]	Increased tibial varum ROM [28]
		Increased external rotation ROM [28]
Patella tendinopathy	Large increases in training load [32]	Low anterior-posterior joint position sense in overarm [21]
	Lower flexibility in hamstrings [46]	Higher range of motion through extension at the first metatarsophalangeal joint (swollen) [22]
	Lower flexibility in quadriceps [34]	Playing history duration exposure to repetitive low body ballistic efforts and previous patella tendinopathy [31]
	Low knee flexion open vertical loadings [38]	
	Fully horizontal landing strategy [39]	
Shoulder overuse injuries	Reduced dorsiflexion [31]	
	Increased water to hip ratio [35, 35]	
	Greater vertical jump performance [39]	
	Serving or spiking style [40]	Previous shoulder injury [2]
	Weakness in external shoulder rotation strength [3]	Age [48]
ACL injury	Limited internal shoulder rotation [3]	Playing history [3]
	SCK [3]	
	Weak core stability [42]	
	Large increases in training load [2]	
	Positive [3]	
Overall injury occurrence	Family history [40]	
	Previous ACL injury [19]	
	Playing in either middle, left or right side hitting position [34]	

ACL, anterior cruciate ligament; ROM, range of motion; DCR, scapula subluxation; inferior medial border prominence; concave distal humerus; and superior distal humerus.

Injury Risk Management Plan for Volleyball Athletes

Table 2 Risk factors for volleyball athletes

Injury	High risk	Medium risk	Low risk
Ankle injury	Right, middle or left hiter with previous ankle injury employing unsafe blocking or striking strategies With or without poor postural control, poor JPS, ROM indicators	Hitters with no history of ankle injury with unsafe blocking and striking tactics A setter or libero with a previous ankle injury	Setter or libero with no history of ankle injury Hitters with safe blocking and striking strategies without previous ankle injuries
Patella tendinopathy	Middle, left- and right-side hitters with history of PT who display hazardous landing techniques	All remaining hitters Setters, liberos with history of PT	Setter, libero without history of PT
Shoulder overuse injury	Hitters with a previous shoulder overuse injury who possess mobility impairment, weakness through external rotation and SICK scapula, regardless of serving style Hitters with extensive playing history, who demonstrate mobility impairment, weakness through external rotation and SICK, regardless of serving style	All remaining hitters with a history of shoulder overuse injury All remaining hitters with an extensive playing history Hitters without an extensive training history who express at least two of the following: mobility impairment, weak external to internal rotation ratio, SICK scapula, reduced core stability	All remaining players Setters and liberos with a previous history of shoulder overuse injuries
ACL injury	Any hiter demonstrating valgus collapse about an internally or externally rotated and excessively extended knee	A setter or libero demonstrating valgus collapse about an internally or externally rotated and excessively extended knee A hiter with weak hamstring to quadriceps ratio or poorer physical fitness, and healthy landing mechanics	Hitters who are not predisposed and execute healthy jumping and landing strategies Liberos and setters with optimal jumping, landing technique, with or without predisposition

PT patella tendinopathy, JPS joint position sense, ACL anterior cruciate ligament, ROM range of motion, SICK scapula malposition, inferior medial border prominence, coracoid pain and malposition, and scapular dyskinesis

Table 3 Injury prevention strategies for all players

Type of strategy	Injury	Activities
Example neuromuscular tasks	ACL injury Ankle sprain	Single-leg squat Shuffles or Cariocas—progress to change of direction reaction (mirror partner or coaches cue) Lateral or 45° bound and balance, landing on opposite leg Single-leg hops over line, or ladder drills Jump to 45° turn—progress to reaction ('jump left', 'jump right'), further progress to dual task (catch and pass, set, dig) Submaximal single-leg landing drills, depth jumps and variations Progressions to pivoting and cutting activities after capacity is developed
Motor learning and coaching strategies	ACL injury Patella tendinopathy	Precise movement mechanics to ensure lower-limb joint congruency and encourage active, soft landings whilst maintaining the centre of mass over the base of support Close qualitative analysis to identify these movement dysfunctions Combined visual and verbal feedback Use of implicit learning strategies Cognitive teaching describing both the injury prevention and performance benefits of prescribed activities
Load management	Patella tendinopathy	Cautious introduction of tendon-loading activities during the preseason or following a period of inactivity Structure high, medium and low tendon-loading days Tracking of 'ground contacts' during plyometric and ballistic activities in strength and conditioning sessions Application of valid periodization strategies to prevent fatigue-related injuries, particularly in preseason and regular season
Rotator cuff strengthening	Shoulder overuse injury	External rotation and external rotation with scapular plane abduction exercises in functional, athletic positions (Fig. 1) Such exercises can also be conducted with eccentric emphasis. Here, the athlete externally rotates against light elastic tubing, steps away and along the line of action to create more tension while the free hand supports, then completes, the eccentric action These exercises can be performed between sets during resistance training

ACL, anterior cruciate ligament

Previously identified patellar tendinopathy risk factors differ between elite and sub-elite volleyball players

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Accepted for publication 5 February 2014

Patellar tendinopathy is the most common knee injury incurred in volleyball, with its prevalence in elite athletes more than three times that of their sub-elite counterparts. The purpose of this study was to determine whether patellar tendinopathy risk factors differed between elite and sub-elite male volleyball players. Nine elite and nine sub-elite male volleyball players performed a lateral stop-jump block movement. Maximum vertical jump, training history, muscle extensibility and strength, three-dimensional landing kinematics (250 Hz), along with lower limb neuromuscular activation patterns (1500 Hz), and patellar tendon loading were collected during each trial. Multivariate analyses of variance ($P < 0.05$) assessed for between-group differences in risk factors or

patellar tendon loading. Significant interaction effects were further evaluated using post-hoc univariate analysis of variance tests. Landing kinematics, neuromuscular activation patterns, patellar tendon loading, and most of the previously identified risk factors did not differ between the elite and sub-elite players. However, elite players participated in a higher training volume and had less quadriceps extensibility than sub-elite players. Therefore, high training volume is likely the primary contributor to the injury discrepancy between elite and sub-elite volleyball players. Interventions designed to reduce landing frequency and improve quadriceps extensibility are recommended to reduce patellar tendinopathy prevalence in volleyball players.

11+

PARTE 7 FORZA • PLIOMETRIA • EQUILIBRIO • 10 MINUTI

ESERCIZIO 1 PANCA STATICO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Mantenere la schiena dritta e il collo allungato. Controllare la discesa e la risalita.	ESERCIZIO 2 PANCA GAMBE ALTERNATE Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Alternare le gambe in estensione e flessione, mantenendo la schiena dritta.	ESERCIZIO 3 PANCA SOLLEVARE UNA GAMBA Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Sollevare una gamba in estensione, mantenendo la schiena dritta.
ESERCIZIO 4 PANCA LATERALE STATICO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Mantenere la schiena dritta e il collo allungato. Controllare la discesa e la risalita.	ESERCIZIO 5 PANCA LATERALE ALZARE E ABBASSARE LE ANCHE Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Alzare e abbassare le anche, mantenendo la schiena dritta.	ESERCIZIO 6 PANCA LATERALE CON SOLLEVAMENTO DELLA GAMBA Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Sollevare una gamba in estensione, mantenendo la schiena dritta.
ESERCIZIO 7 SCHIACCIABALLI LIVELLO BASE Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Schiacciare la palla con la mano, mantenendo la schiena dritta.	ESERCIZIO 8 SCHIACCIABALLI LIVELLO INTERMEDIO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Schiacciare la palla con la mano, mantenendo la schiena dritta.	ESERCIZIO 9 SCHIACCIABALLI LIVELLO AVANZATO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Schiacciare la palla con la mano, mantenendo la schiena dritta.
ESERCIZIO 10 SU UNA GAMBA TENERE LA PALLA Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Tenere la palla con la mano, mantenendo la schiena dritta.	ESERCIZIO 11 SU UNA GAMBA LANCARE LA PALLA AL COMPAGNO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Lanciare la palla con la mano, mantenendo la schiena dritta.	ESERCIZIO 12 SU UNA GAMBA METTERE ALLA PROVA IL COMPAGNO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Mettere alla prova il compagno, mantenendo la schiena dritta.
ESERCIZIO 13 SQUAT SULLE PUNTE DEI PIEDI Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Squat sulle punte dei piedi, mantenendo la schiena dritta.	ESERCIZIO 14 SQUAT AFFORDI Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Squat affordi, mantenendo la schiena dritta.	ESERCIZIO 15 SQUAT PEGAMENTI SU UNA GAMBA Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Squat pegamenti su una gamba, mantenendo la schiena dritta.
ESERCIZIO 16 SALTI VERTICALI Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Saltare verticalmente, mantenendo la schiena dritta.	ESERCIZIO 17 SALTI SALTI LATERALI Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Saltare lateralmente, mantenendo la schiena dritta.	ESERCIZIO 18 SALTI SALTI IN QUADRATO Assumere la posizione di partenza con le ginocchia a 90° e i piedi a terra. Saltare in quadrato, mantenendo la schiena dritta.

Journal of Strength and Conditioning Research, 2007, 21(2), 496-499
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EFFECT OF SIX WEEKS OF DURA DISC AND MINI-TRAMPOLINE BALANCE TRAINING ON POSTURAL SWAY IN ATHLETES WITH FUNCTIONAL ANKLE INSTABILITY

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ORIGINAL CONTRIBUTION

Open Access



The prevention of musculoskeletal injuries in volleyball: the systematic development of an intervention and its feasibility

Vincent Gouttebarge^{1,2,3,4*}, Marjke van Sluis⁵, Evert Verhagen^{3,4,5,7} and Johannes Zwerver⁵



PIERO BENELLI



LE SPIRITU DELL'UOMO NEL TERZO MILLENNIO | PESARO | 7 ottobre 2017

Table 5 Tendon loading schedule for volleyball athletes

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
L	L	H	L	M	H	L

L = low tendon load, M = medium tendon load, H = high tendon load

Table 4 Additional injury prevention strategies for volleyball athletes according to specific risk factor profiles

Moderate- to high-risk of ankle injury	Moderate- to high-risk of patella tendinopathy	Moderate- to high-risk of shoulder overuse injury	Moderate- to high-risk of ACL injury
Taking ankle eversion pre-activation Single-leg static balance, Progress from knee to an unstable apparatus Manual resistance can be applied in all these conditions Technical training to encourage a more vertical trajectory when spiking and blocking Taping or bracing of the previously injured ankle	Tracking of ground contacts during practice and games if feasible Limiting the number of ground contacts during practice and games for these athletes with non-traditional serving and spiking styles Quick drop squat and landing patterns to loading of the previously injured ankle	Tracking and frequency management of aggressive overhead actions May require closer monitoring and more feedback throughout ROM Techno- practice and games with non-traditional hitting exercises Increased focus on manual resistance training exercises	Deceleration tasks such as depth drops and drop jumps May require closer monitoring and more feedback throughout ROM Techno- practice and games Additional hamstring strengthening exercises during resistance training sessions Higher volume of plyometric activities (for those at low risk of patella tendinopathy)

ROM = range of motion, ACL = anterior cruciate ligament



Fig. 1 Quick drop squat with external shoulder rotation

Preventing Injury: Young swimmers are not "little adults"

Available 01 August 2016 08:30

Written by Dr. David F. Gavett



There is an adage in sports medicine that "the child is not simply a little adult." And nowhere is this comment more relevant than in aquatic sport, in particular swimming, where training usually begins at an age before bones, muscles and joints are matured. If the progress of a young swimmer is too rapid, the training load too intense or poorly monitored, the risk of injury increases.

The swim in the growing skeleton where injury is more likely to occur are regions where tendons attach to "soft" immature bone, and in growth plates located at the ends of each long bone. Coaches play an integral part in recognizing the early indicators of injury and may intervene early by reducing the training load, altering stroke mechanics, or modifying weight training, and by land exercise programs. Overuse is the most common injury mechanism and the young swimmer is particularly prone to shoulder, low back and knee problems. Sports doctors recognize conditions such as "swimmer's shoulder," "butterfly swimmer's back," and "freestyle swimmer's knee." These apply equally to water polo players.

KEY POINTS

- Musculoskeletal overuse is a risk for the young aquatic athlete.
- Potential sites of stress in swimmers include shoulders, knees or low back.
- Training load, poor stroke mechanics and disregard for early signs of overuse contribute to delayed recovery.
- Injuries to young athletes demand thorough medical examination and full investigation.
- Rehabilitation may necessitate rest, however modified activity is often an option.

Epidemiology of Overuse Injuries in Youth Team Sports: A 3-year Prospective Study

Authors: Mari Leppanen¹, Kati Pasanen¹, Pekka Kannus², Tommi Vasankari³, Urho M. Kujala⁴, Ari Heinonen⁴, Jari Parkkari⁵



Modificazioni del regolamento

- Rally point system, 1999
- Introduzione del “libero”, 1998
- Battuta sul net, 2000
- Palla meno gonfia, 2000
- Time-out
- Video-check



■ CONSEGUENZE METODOLOGICHE

- Allenamenti meno lunghi e più intensi
- Preparazione fisica modificata e diversificata



■ CONSEGUENZE TRAUMATOLOGICHE

- Aumento traumatismi acuti (caviglia – traumi muscolari: polpaccio/addominali)
- Diverso “injury profile” in relazione ai ruoli
- Aumento “shoulder pain” per l’azione di battuta



Integrazione degli interventi

- Trattamenti manuali
- Fisioterapia strumentale
- Terapia medica / farmacologica
- Attività in palestra
- Attività in acqua
- Altro...

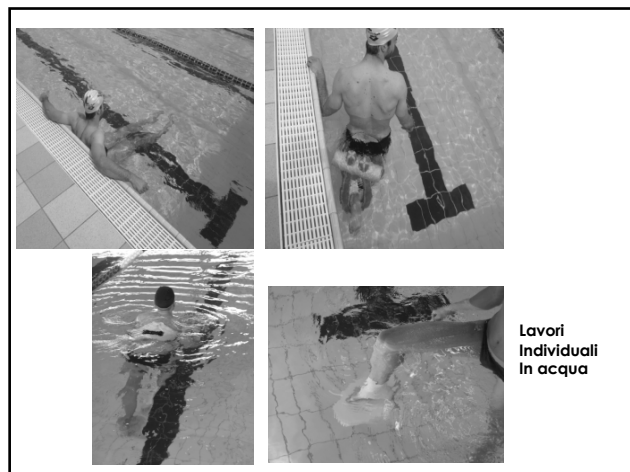
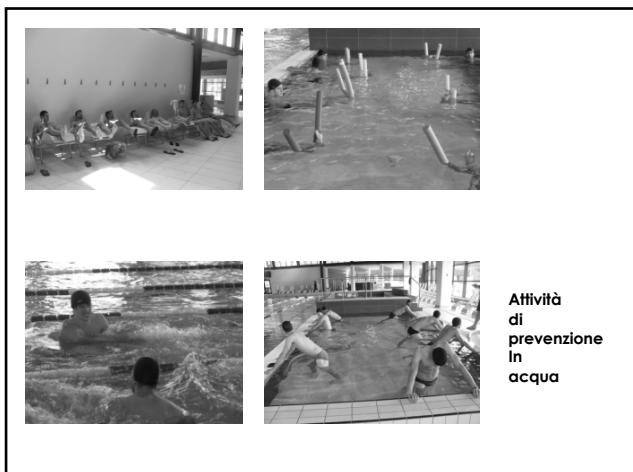
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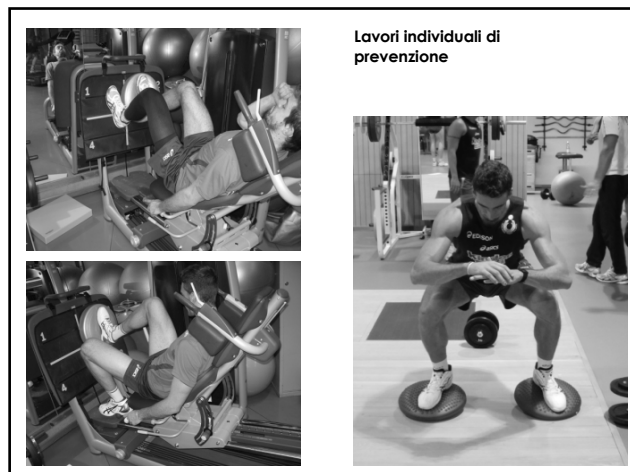
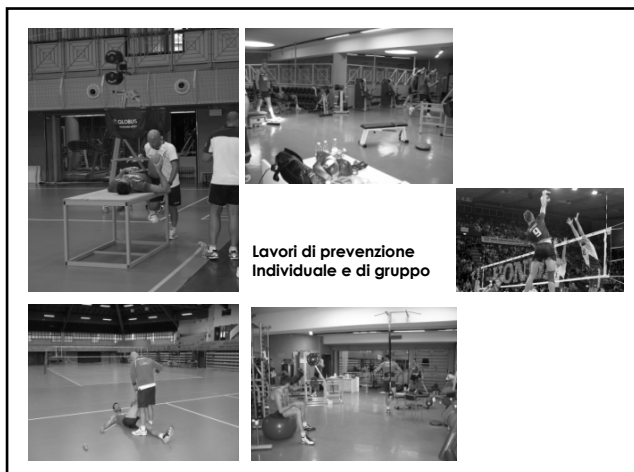
- Conflittualità
- Interferenza
- Sovraccarico

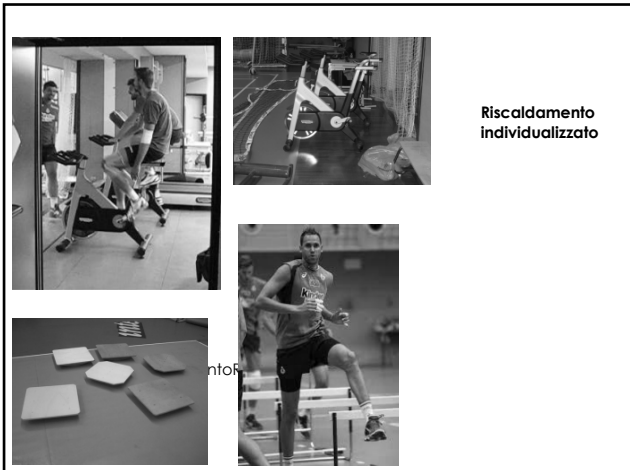
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- Coordinazione
- Sinergia
- Corretta modulazione carico
- Integrazione
- Sequenzialità









Riscaldamento
individualizzato

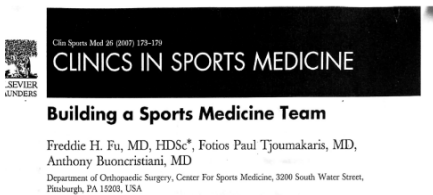
INVESTIGATION OF MANAGEMENT MODELS

IN ELITE ATHLETE INJURIES

Shen-Kai Chen, Yun-Min Cheng, Yen-Chung Lin,¹ Yu-Jue Hong,¹ Peng-Ju Huang,
and Pei-Hsi Chou

- Diverse componenti portano a scegliere un modello di gestione degli infortuni
- La scelta, spesso pilotata dagli atleti, dipende dal livello di qualificazione, dall'età, dal genere, dall'esperienza
- Ci può essere una utile integrazione tra approcci diversi

Lo staff sanitario



Freddie H. Fu, MD, HDSc*, Fotios Paul Tjoumakaris, MD,
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Pittsburgh, PA 15203, USA

Building a winning sports medicine team is equally as important to the success of an athletic organization as fielding talented athletes. Acquisition of highly qualified, motivated, and hard-working individuals is essential in providing high quality and efficient health care to the athlete. Maintaining open paths of communication between all members of the team is the biggest key to success and an optimal way to avoid confusion and pitfalls.



Fu e al. –Building a sports medicine team (Clin Sports Med 26, 2007)

– Obiettivi:

- Coordinare lo screening pre-partecipazione
- Gestire gli infortuni sul campo
- Organizzare la gestione medica di traumi e malattie
- Coordinare i programmi riabilitativi ed il ritorno allo sport
- Assicurare un ritorno all'attività in sicurezza
- Integrare le competenze coinvolte (specialistiche, mediche, tecniche)
- Organizzare un corretto approccio ad alimentazione, integrazione, stili di vita
- Controllare le documentazioni cliniche ed aggiornare

Fu e al. –Building a sports medicine team (Clin Sports Med 26, 2007)

- Individuare il riferimento principale
- Coordinare il percorso riabilitativo
- Evitare errori, confusioni, conflitti
- Costruire un “team” vincente” (coordinazione e comunicazione!)

Staff “solido”

- Coordinato
- Sinergico
- Dialettico
- Flessibile
- Autorevole
- Responsabile
- Competente
- Aggiornato
- Innovativo



Coris E. e al. – Sports Med Arthrosc 2009

Imaging in sports medicine: an overview

“Dato il continuo aumento dei traumi sportivi, e l’ utilità di una tecnologia di diagnosi e trattamento in continua evoluzione, il medico sportivo deve necessariamente aggiornarsi sulle potenzialità delle nuove tecnologie.....particolari avanzamenti sono stati fatti in campo radiologico, che offre una miriadi di opzioni al medico.....che deve essere informato sulla validità, sulle indicazioni, sulle controindicazioni, sulla sensibilità, sulla specificità e anche sui costi nel grande spettro delle opzioni diagnostiche”

Borg-Stein J. – PM R 2009

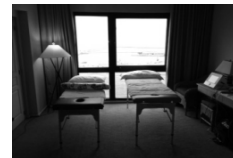
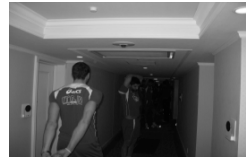
New concepts in the assessment and treatment of regional musculoskeletal pain and sport injury

L’ esame delle nuove conoscenze nel trattamento dei disordini muscoloscheletrici (comprensione dei meccanismi patogenetici, nuove modalità nell’ imaging, aggiornamenti sui modelli di trattamento, etc.) presuppongono un nuovo approccio nella gestione dei traumi muscolotendinei non chirurgici

Borg-Stein, Zaremski, Hanford – New concepts in the assesment and treatment of regional musculoskeletal pain and sports injury – PM&R, 1, 8, 2009

- Rassegna sulle nuove opportunità diagnostiche e terapeutiche dei traumi tendinei e muscolari nello sport:
- Necessità di un nuovo approccio basato sulle nuove conoscenze, adeguato anche alle diverse patologie, discipline, età

Organizzazione delle attività di terapia e di prevenzione in differenti condizioni (*flessibilità*)



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♥ Piace a 2.400 persone

federazioneitalianapallavolo #Rio2016 - il capitano non molta e tra pochi giorni sarà di nuovo in campo. #riogrocciolandello #riogrocciolandello @riogrocciolandello @italiateam @underpupport

Visualizza tutti e 461 i commenti

„stefania_34 Che grande!!! Bellissima notizia.

robertascuder03 Che bello♥

Programma riabilitativo in emergenza

Journal of Athletic Training – 2008;43(5):523-529
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www.nata.org/jat

systematic review

Ankle Ligament Healing After an Acute Ankle Sprain: An Evidence-Based Approach

Tricia J. Hubbard, PhD, ATC; Charlie A. Hicks-Little, MS, ATC

The University of North Carolina at Charlotte, Charlotte, NC

Key Points

The amount of time needed for ligament healing after ankle sprain is unknown. Significant improvements in mechanical stability did not occur until at least 6 weeks to 3 months after injury, but a moderate percentage of participants still had objective mechanical laxity and subjective ankle instability.

Objective assessment of mechanical laxity immediately after an ankle sprain and for at least 1 year after injury is needed so clinicians can know how long to protect and immobilize an ankle after sprain, develop rehabilitation protocols to help stabilize the ankle, and make return-to-play decisions based on stability of the ankle ligaments, preventing further injury and damage.



Approccio integrato

- Metodologie di lavoro
- Figure professionali
- Trattamenti terapeutici
- Attività ed interventi
- Esperienze ed evidenze

Lo staff – Come costruirlo

- Da chi è composto
- Come interagisce
- Come si consolida
- Come si modifica
- Come lavora
- Il budget e il contesto
- I riferimenti



Gestione integrata

- Tecnico/i
- Team-manager
- Preparatore fisico
- Medico
- Fisioterapista/i
- Specialisti di riferimento
- Osteopata
- Statistici / Tattici
- Psicologi
- Fisiologi / Biomeccanici
-



Benvenuto, 2010



La comunicazione

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Review



Centre for Medical and Health
Sciences Education, Faculty of
Medical and Health Sciences,
Grafton Campus, University of
Auckland, Auckland,
New Zealand

Teams, tribes and patient safety: overcoming barriers to effective teamwork in healthcare

Jennifer Weller, Matt Boyd, David Cumin

ABSTRACT

Modern healthcare is delivered by multidisciplinary, distributed healthcare teams who rely on effective teamwork and communication to ensure effective and safe patient care. However, we know that there is an

members of the team and categorise the challenges to interprofessional teamwork and communication in healthcare into three domains: educational, psychological and organisational. Finally, we will suggest a range of solutions to these challenges.

Lavorare come un team multidisciplinare: le opportunità di crescita

- Aspetto educativo/Formativo (diversi linguaggi, diversi programmi di intervento, diversa preparazione, difficile interazione tra le professionalità: “allenamento”!!)
- Psicologico (comunicazione e interazione fra diversi livelli e diverse figure)
- Organizzativo/Gestionale (situazioni geografiche, logistiche – diversi teams coinvolti – utilizzo delle comunicazioni sulla rete, etc.)

Self assessment questions

1. A shared mental model is a critical requirement for effective teamwork. Which of the following is not a component of a shared mental model?
A. All team members understand the general plan
B. All team members know each other's roles
C. All team members can perform all of the required tasks
D. All team members are 'in the same page'
E. All team members know each other's capabilities
2. Failure in communication in healthcare teams has been shown to:
A. Contribute to 61% of sentinel events
B. Result in subtle errors more than one-third of the time
C. More than double the risk of surgical complications
D. All of the above
E. None of the above
3. Which psychological and organisational factors are challenges to effective interprofessional teamwork in healthcare?
A. Hierarchical structures
B. Calculation of patients and the patient care team
C. Development of professional identities
D. All
E. ABC
4. Which training strategy has been shown to reduce risk-adjusted mortality rates by 30% across over 100 hospitals?
A. Training intensive communication strategies
B. Training together as a team
C. Using simulation based training
D. All of the above
E. None of the above
5. Which of the following is not an example of a successful initiative to support teamwork with patients and professionals?
A. Using discipline specific IT systems and paperwork
B. Interdisciplinary safety checklist
C. Structured daily briefings
D. Emergency Responder (ER) system
E. New South Wales Health 'between the Rugs' project

1. Apprendere strategie di comunicazione efficace
2. Allenare insieme i teams che lavorano insieme
3. Allenare il team utilizzando la simulazione
4. Favorire la coesione di team multidisciplinari incentivando il senso di appartenenza e il raggiungimento degli obiettivi
5. Creare teams democratici con una comunicazione aperta e la valorizzazione delle diverse competenze e figure
6. Sostenere il team work con adeguati protocolli e procedure chiare e condivise
7. Sviluppare una cultura organizzativa che favorisca la comunicazione e la crescita dei teams sanitari

Table 2 Strategies to improve communication	
Tool	Brief description
Step-back (call-out) ^{52, 48}	Stepping back from and taking an overview of the situation, the health professional who is leading the team calls the attention of the team and provides an update of the situation, the plan and invites suggestions.
Closed-loop communication ^{40, 53, 54}	This three-step strategy involves: the sender directs the instruction to the intended receiver, using their name where possible; the receiver confirms what was communicated as a check on hearing and understanding the instruction, seeking clarification if required; the sender verifying that the message has been received and correctly interpreted.
Structured information transmission (SBAR/ISBAR) ^{52, 55, 56}	This is a widely used acronym to help structure verbal at handover or patient referral. The original version (SBAR) has been expanded in some reports to ISBAR, starting with Identify yourself: Identify → Situation → Background → Assessment → Recommendation.
Structured handover ^{53, 57}	Simple templates for summarising important patient information at handover
Graded assertion (PACE) ⁴⁸	Escalating concern (Probe, Alert, Challenge, Emergency)

psychological and organisational strategies. Recent evidence suggests that improvement in teamwork in healthcare can lead to significant gains in patient safety, measured against efficiency of care, complication rate and mortality. Interventions to improve teamwork in healthcare may be the next major advance in patient outcomes.



Clin Sports Med 26 (2007) 137–148

CLINICS IN SPORTS MEDICINE

Communication: The Key to the Game

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Communication. Communication. Communication. The author could probably stop writing this article at this point. If I did, however, you might just think my words are archaic and merely come across as yet just another cliché in a world that is overpopulated and infiltrated with acronyms and quotes to describe each and every daily encounter. So perhaps an explanation is owed to clearly justify why the word “communication” takes on a whole new level of meaning when it describes one’s role as a team physician.

Konin J. – Communication: the key of the game – (Clin sports med, 26, 2007)

- Catena di comando
- Metodi vincenti
- Forme di comunicazione pratiche
- Errori comuni di comunicazione: assenza di comunicazioni, non comunicare abbastanza, comunicazioni poco comprensibili o “interpretabili” (v. dirette / mail), non comprensione e adeguamento situazioni specifiche, non riconoscere l’importanza della comunicazione, non definire nè curare il rapporto con gli atleti, non conoscere aspetti medici importanti, non frenare il “gossip”

IMPORTANCE

Perhaps the biggest mistake one can make as a team physician as it relates to communication is to underestimate the importance of any single piece of information. The team physician must recognize at all times that he or she is a part of a team of health care providers. This means that new information regarding the injury or illness of a player must be shared with the athletic trainers and other key individuals in a timely manner. Likewise, the team physician should expect the same level of communication in return from athletic trainers. One of the most uncomfortable feelings that a medical provider associated with a team can have is to be asked a question by a coach or key person and not know the answer. It is not uncommon for coaches and others to ask the same question to

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0278-5919/07/\$ – see front matter
doi:10.1016/j.cam.2007.01.008

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multiple health care providers associated with a team, just to see if they can obtain the same response. In fact, if the question at hand pertains to a diagnosis, prognosis, or return-to-play decision, this is a common tactic that will be used by coaches in an attempt to seek out the one person on the medical team who may provide the most favorable response from the coach’s perception. Be careful not to underestimate the value of each little piece of information related to a player’s health, and be sure to communicate this to other appropriate medical team members. Team physicians should at all times carry telephone numbers, e-mail addresses, pagers, and any other form of communication used by

team members. Team physicians should at all times carry telephone numbers, e-mail addresses, pagers, and any other form of communication used by medical staff members to assure timely communication.

It is absolutely critical that the team physician, and any other medical staff member for that matter, does not "grandstand" and feel compelled to be the one to deliver news that other pertinent medical staff members do not have. Feeling the need to set one's own a priori information dissemination agenda will only lead to a distrustful and uncomfortable environment. Furthermore, this has the dangerous potential of providing coaches and others with credible information that some involved medical staff members do not have. There is no place for such behavior when a team of medical providers are expected to work as one.

To avoid confusion, misinformation, and communicating through inappropriate channels, it is imperative to first identify a single person who will be the voice of the medical staff. All information regarding the health status of a player should be conveyed through this one individual. Doing this clearly

Conclusioni

La gestione dell'atleta infortunato e la programmazione di adeguate strategie di prevenzione e riabilitazione necessitano di operatori non solo competenti e capaci ma anche di staff coordinati, solidi e sinergici, a tutti i livelli e in qualsiasi contesto. Questo può costituire quel "valore aggiunto" per il raggiungimento dei massimi obiettivi



Conclusioni

- **Integrazione**
 - degli interventi (coordinati, sinergici, sequenziali, flessibili)
 - dei trattamenti delle professionalità e delle capacità
 - delle conoscenze e delle competenze
- Continuo confronto ed interazione degli operatori**

Conclusioni

- * Conoscenza completa ed aggiornata dell'epidemiologia specifica
- * Studio adeguato del gesto tecnico e del modello prestativo (ruolo, caratteristiche antropometriche e fisiche) e delle caratteristiche degli atleti
- * Capacità di adattamento alle modificazioni del gioco, dei regolamenti, dei materiali
- * Programmazione attenta della stagione e delle strategie di recupero e modulazione continua dei carichi di lavoro
- * Continuo confronto tra staff tecnico e staff sanitario
- * Costruzione di percorsi adattabili e flessibili
- * Valutazioni basate su criteri condivisi e consolidati
- * Attenzione alle nuove metodologie e tecnologie
- * **Creazione di un sistema di prevenzione e gestione dei traumi che sia solido (basato sulle evidenze e sulle esperienze), adattabile, flessibile, condiviso**

GRAZIE!

