Rehabilitation of Acute Head and Facial Injuries

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Goals and Principles



	Goals	Measures
ase 1	Prevent secondary brain damage	Acute treatment at the proper level of care
699.2	Mobilization and regaining primary functions	Practical help from physical and occupational therapists
600 S	Complete recovery of lost functions	Specialized rehabilitation program
de 4.7 Goals and measures for rehabilitation of head injuries. (Reproduced with permission from the Norwegian Sports		

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Return to Sport

Concussion

Return to play decisions remains difficult. Expert consensus guidelines recovered complexity from the returned to competition until they have recovered complexity from the romassive injury. Currently, however there is no single goal atnuked measure de brain disturbance and recovery following concusion. Instead, chickiasm must rely on indirect measures to inform discial giggener. In particula terms, this involves a multifacted chical approach, which includes assessment of symptom, physical digs (such as balance) and cognitive function.

The general management principle is that no return to play on the day should be contemplated for a concussed athlete. It is not within the scope or expertise of a physiotherniptic tintier or non-medical perion to manage a concussive injury or determine the timing of return to play. A player should never return to play while symtematic: Vines in outsit, at them out?

The concentrate of concusion management is physical and cognitive rest and interaction travelstand force and program while any of SCAT2 form, project 4.3). Similarly, the use of alcohol, narcode analgencis, and inflammatory medica-tions and the second state of the second state of the second state management of the second state of the second state of the second proven saveliance of activities that place the individual at risk of further injury (e.g., drivin). given on avoidi (e.g., driving).

Economics a concentre injury, players should be networked up play in a graduated to Takening . When considering resume to play, the should be off all mediated to make the should be shown in the play the should be off all mediated into an 4 the time of confidering commencements of the reshult lines are at the final medical assessment. There is no small-shoup period of the should lines are the final should be shown in the player must be any should be shown in the shown in the shown in the shown in the should be shown in the should be shown in the s

	Functional exercise at each stage of rehabilitation	
1. No activity	Complete physical and cognitive rest	Recovery
2. Light aerobic exercise	Walking, swimming or stationary cycling keeping intensity <70% HR max.	Increase heart rate
	No resistance training.	
3. Sport-specific exercise	Skating drills in ice hockey, running drills in soccer. No head impact activities.	Add movement.
4. Noncontact training drills	Progression to more complex training drills, for example, passing drills in hockey and football.	Exercise, coordination and cognitive load
5. Full contact practice	Following medical clearance participate in normal training activities	Restore confidence and assess functional skills by coaching staff
6. Return to play	Normal game play	

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If a player remains asymptomatic for 24 hours at level 1, they may progress to level 2. They are allowed to advance provided that they remain asymptomatic. Using this protocol, as athlet should take approximately a week before tremming to anomal game play. If any symptoms under during the progression, players should drop had to the previous level in which they were asymptomatic for a further 24 hours before attempting to progress.

A player who has suffered from a concussive injury must not be allowed to return to play before having a medical clearance. In every case, the decision regarding the timing of return to training should be made by a medical doctor with experience in concussive injuries.



Screening computerized cognitive tests are strongly encouraged in the routine man-agement of concession in sport. Computerized tests provide a quick, valid and re-test platforms such a Axon CST (new axontporticous), Im/ACT (new impact-test com), Headminders (new headminders.com), and a tool developed by the US

Catastrophic or Severe Head Injury

arm to sport following a severe or potentially life threatening bra troversial and few guidelines exist for the clinician to follow. The ations where the athlete could place himself at an unacceptably alming further injury and hence should be counseled against participa n sport (Table 4.9). In such situations, common sense should prevail

concussional or postinjury symptoms urological sequalise-hemiptegia, visual defect, den a with or without shunting subsrachnoid hemorrhage from any cause

Table 4.9 Conditions contraindicating return to contact sport. (Re



Dentoalveolar Iniuries

HBBBBbooks mysters: (noth injuries that result in loosening of one or more teeth or tooth-bearing frag-tine require dentation with an arch bar. The bar is used for 1 week for huated th without alwedar fractures, for 4 week for subtrated teeth with alwedar frac-es, and for 8 week for not fractures. Dring that period, the tables may train and uppet in sports, except for marking and other sports where blows to the month disc escent. Consideration of the use of a monthymal with improved dental poor.



As the ability to treat or reduce the effects of concussive injury after the even minimal, education of athletes, colleagues and those working with them as we use be general public is a maintary of progress in this field. Athletes and their has many providers must be educated regarding the detection of concussion, its cill average more trebulence of a minicipal of active atoms for a mini-structure trebulence techniques are and anisolate of active atoms to form. Machede to

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