International Paralympic Committee

The Epidemiology of Injuries in Paralympic Alpine Skiing at the Sochi 2014 Paralympic Winter Games







IPC Injury and Illness Survey Aims and Objectives

- 1. Characterize injuries and illnesses amongst Paralympic Athletes in as much detail as possible
- 2. Identify modifiable mechanisms of injury and pre-disposing factors for injury and illness
- 3. Assess the positive and negative long term effects of athletic competition on Paralympic athletes
- Devise, implement and assess prevention strategies to reduce injury and illness in various sporting competitions



IPC Injury and Illness Survey



IPC INJURY AND ILLNESS PREVENTION STUDY

International Paralym Version 1.4.008

SOCHI 2014 PARALYMPIC GAMES

USER : Ian Stuart Mille TEAM : British Paralyn

ess Calendar : GBR Contact Us About Session ur ongoing commitment to this project. If you experience any problems with data entry please conta Step 2: In which sport did the athlete incur the injury? rould you like to record? proceed to step 2 √ (Select a sport ...) proceed to step 2 Alpine Skiing r Illnesses; proceed to step 3 Cross-Country Skiing Ice Sledge Hockey h date would you like to record the abo Wheelchair Curling ick on the number in the appropriate box

		Friday	· · · · · · · · · · · · · · · · · · ·	Wednesday	luesuay	Monday
		31	30			
2	1					
9	8	7	6	5	4	3
16	15	14	13	12	11	10
23	22	21	20	19	18	17
		28	27	26	25	24
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- New or recurrent injury (select only one)
- 2. Time loss or medical attention only (select only one)
- 3. Acute, overuse or acute-on-chronic injury (select only one)
- Stage of the Games (pre Games or during Games) and type of event (select only one)
- 5. Decision to continue competing/training (select one)
- 6. Snow type, weather conditions (select one)
- 7. Principle intrinsic or extrinsic mechanism of injury (select only one)
- 8. Other mechanisms (more than one)
- 9. Injury severity (select only one)
- 10. Primary anatomical area affected (select only one)
- 11. Secondary anatomical areas (more than one)
- 12. Specific final diagnosis in the anatomical area selected (select only one)



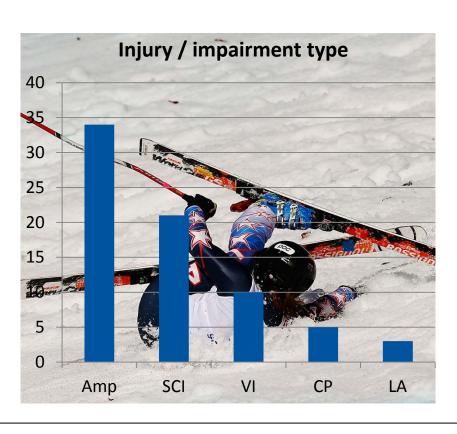
Alpine Skiing/Snowboard



- 547 Athletes / 45 countries
 - Alpine Skiing/Snowboard : 219 Aa
- IP: 37,0%
- IR: 41,1/1000 athlete days
- Alpine Skiing
 - 73 Injury Encounters / 19 countries
 - 1/3 injuries from 1 country
- Snowboard
 - 14 Injury Encounters / 9 countries



Alpine Skiing



- 52 / 73 acute injuries
- 28 / 73 injuries resulted in time loss (>1 day)
- Amputee/limb deficiencyknee head/face shoulder & wrist
- Spinal cord injury shoulder – neck – head/face
- Visual Impairment knee – head/face



Alpine Skiing

	Upper part of course	Lower part of course	Finish area
Downhill	13 / 8 DNF	5 / 3 DNF	3 / 1 DNF
Super G	3 / 2 DNF	2 / 2 DNF	2 / 2 DNF
Super C	3 / 2 3 1 1 1	2,25	2,25
Combined	3 / 1 DNF	1	1
Giant Slalom	2 / 1 DNF	2 / 1 DNF	
Slalom	4 / 2 DNF	3 / 1 DNF	
	\		

- Amputation/limb deficiency:
 no info snow conditions loss of control
- Spinal Cord Injury
 Loss of control snow conditions
- Visual Impairment collided with safety nets – snow conditions

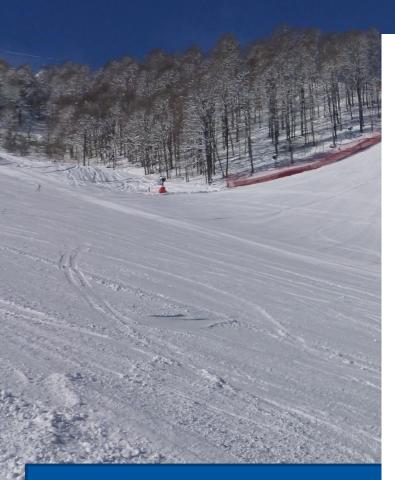


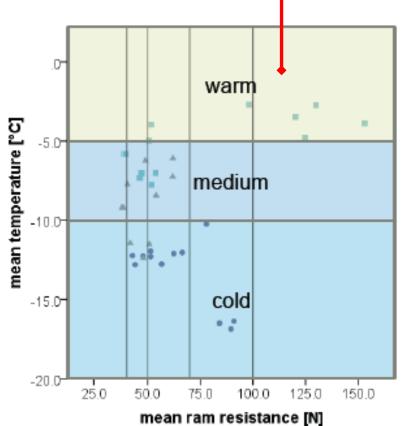
Snowboard

	Stump	Knee	neck
Loss of control 6/14)		1	2
Prosthesis (2/14)	2		
Twisted extremity (2/14)		2	









Level

- World Cup
- European Cup
- Level Race

Environment



















IPC POLICY ON SPORT EQUIPMENT

Approval Authority: Governing Board for section 1,2 and 3

CEO for section 4.

Responsible Office or IPC Medical Department & Scientific Department

Department:

Approval Date: GB approval on 2 April 2011

Revision Date(s): Related Policies:

3. Principles & Definitions

3.1 The fundamental principles regarding the use of equipment used during IPC Sanctioned Competitions and Events, and at Paralympic Games, are:

3.1.1 Safety

All Equipment in use must protect the health and safety of the user, other competitors, officials, spectators and may not cause damage to the environment (e.g. Field of Play).

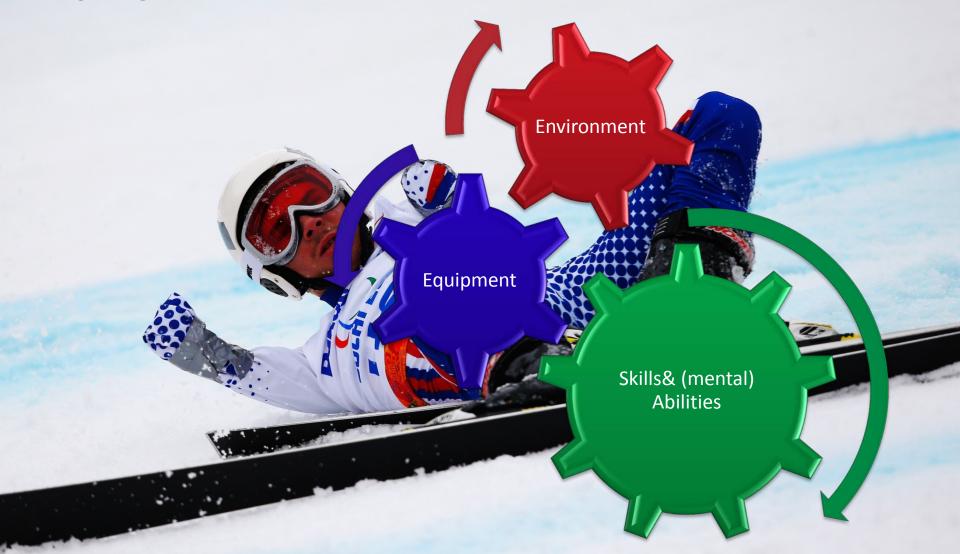
3.1.2 Fairness

Equipment needs to be regulated in sports rules in sufficient detail.

3.1.3 Universality

The cost and large scale availability of (principal components of) equipment should be considered to guarantee access to a sufficiently large number of athletes in the sport.

Injury ~ Performance ~





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