Subject Index

A	Contact injuries, 321 Contact velocity, 154 Cortical contusion, 154
Acceleration, 142	
impact, 177	
rotational, 177	\mathbf{D}
translational, 177	
Achievement motivation, 85	
Air bag, 142	Deformation depth, 154
American Medical Association,	Depth minimum, 77
249	Diving, 57, 77
American Red Cross, 77	B, ,
Aquatic Injury Safety Group, 77	E
ASTM Standards, 28, 73	-
F 1292: 340	
Axial compression, 127	Electromagnetic digitizer, 212
Axial compression, 127 Axial compressive loading, 168	Encephalopathy, chronic, 249
	Equestrian sports, 28, 73
Axial loading, 127, 142	ETOH intoxication, 73
В	ETOTI intoxication, 73
Ь	F
Pasaball 222	I.
Baseball, 223	
Bending, lateral, 127	East fourier transform 204
Bicycle safety helmets, 321	Fast fourier transform, 304
Boxing, 249, 257	Field hockey, 13
tempomandibular disorders,	Flexion, 212
346	Football, 13
Brain swelling, 287	catastrophic injuries, 3, 20,
Buckling analysis, 168	239
	helmets, 142
	injury prevention, 3, 20, 142
C	spearing, 239
	tempomandibular disorders,
Cerebral concussion, 116, 249	346
Collar air bag, 142	**
Collegiate sports, 13	Н
Coma, lucidity prior to, 287	** 1 1 11 / 61 11 000
Committee on Prevention of	Hardness, baseball/softball, 223
Spinal Cord Injuries Due	Hazard patterns, 47
to Hockey, 37	Head Acceleration Device, 177
Compression, 154, 203	Headgear, equestrian, 28, 73
Computer simulation, 142, 168	Head Injury Criteria, 223
Concussion, 13	Helmets, 142
grading system, 249	bicycle, 321
Concussion gun, 177	equestrian, 28, 73
Consumer Product Safety	motorcycle, 321
Commission, 47, 340	Hematoma, acute subdural, 287

I Ice hockey, 13, 37	Mathematical modeling, 168 Monkeys, 177 Motion analysis, head, 212
tempomandibular disorders, 346	Motivation, contribution to
Impact attenuation, 321, 340 Impact, biomechanics of, 257	injury, 85 Motor control, 304 Motorcycle safety helmets, 321
Impact, dynamic, 203 Impact loading, 346 Impact postures, 127 Impact tests, 223 Impact velocity, 154 Injury rates, 13 boxing, 249, 257 diving, 77 equestrian sports, 28, 73 football, 3, 20, 142, 239, 346 ice hockey, 37 inertial, 321 NCAA Injury Surveillance System, 13 NEISS, 47 taekwondo, 116 Intercollegiate sports, 13	N National Center for Catastrophic Sports Injury Research, U University of North Carolina, 20 N National Electronic Surveillance System (NEISS), 28, 47 National Injury Information Clearinghouse, 47 National Park System, 28 NCAA Injury Surveillance
	System, 13
Jaw-joint disorders, 346 Justin Sportsmedicine Program, 28	Playground surfaces, 340
K	Pools, 57, 77 Postural control, 304
Kinematic analysis, 203 Knockout mechanism, 257 L	Prasad-Mertz risk curves, 223 Prevention, 20, 37, 346 approaches, 47 boxing injuries, 249 diving injuries, 57, 77
Lateral bending, 127, 212 Loading, 127, 142, 168 dynamic, 203 Locus of control, 85	football injuries, 3, 20, 142, 239 helmets, bicycle, 321 helmets, equestrian, 73 helmets, motorcycle, 321 ice hockey spinal injuries, 37
M	playground injury, 340
Manikin, 127 Anthropomorphic Hybrid III, 203	Psychology, sports, 85 Punchdrunk syndrome, 249
head, for baseball tests, 223 headform, instrumented, 340	Q
Martial arts, 116	Ouadriplegia, 3, 77, 127

K	cervical, 142, 168, 203, 212
	cervical compression, 127
Range of movement, 212	diving, 77
Rats, 154	ice hockey, 37
Responsibility, shared, 3	SportSmart Canada, 37
Rhesus monkeys, 177	Standards, 3, 47
Risk	ASTM, 28, 73, 340
analysis, 3	baseball, 223
curves, 223	equipment, 20
factors, 20, 73	safety helmet, 321
Rodent models, 154	softball, 223
Romberg test, 304	
	T
S	Tackling, football, 239
-	T.A.D.D. syndrome, 287
	Taekwondo, 116
Self esteem, effect on injuries,	Tempomandibular disorders,
85	346
Severity Index, 223	Tensile strain, 287
Sex orientation, 85	
Side bending posture, 127	${f U}$
Simulation, 223	II 's 1Cs to Decree Clarks 20
animal models for, 154, 177	United States Pony Clubs, 28
computer, 142, 168	${f v}$
dummy, mechanical test, 127 instrumented headform, 340	*
mathematical modeling, 168	Venospasm, 287
Soccer, 13	Vestibular input, 304
tempomandibular disorders,	Vests, equestrian, 73
346	Visual input, 304
Softball, 223	Vital cranial triad, 346
Somatosensory input, 304	
Spearing	\mathbf{W}
ball carrier, 239	****
concurrent defensive, 239	Whiplash, 177
Spielmeyer assortment, 177	Wrestling, 13