

STP 1212

***Safety in Ice Hockey:  
Second Volume***

*C. R. Castaldi, P. J. Bishop, and E. F. Hoerner, editors*

ASTM Publication Code Number (PCN)  
04-012120-47



ASTM  
1916 Race Street  
Philadelphia, PA 19103

# Contents

<b>Overview</b>	1
-----------------	---

## EPIDEMIOLOGY AND CONDITIONING

<b>Spinal Injuries in Ice Hockey: Review of 182 North American Cases and Analysis of Etiologic Factors—CHARLES H. TATOR, VIRGINIA E. EDMONDS, AND LILLIAN LAPCZAK</b>	11
<b>Injuries in Collegiate Ice Hockey—RANDALL W. DICK</b>	21
<b>Type, Location, and Severity of Hockey Injuries Occurring During Competition and Practice—RICHARD W. BANCROFT</b>	31
<b>The Incidence, Types, and Circumstances of Injuries to Ice Hockey Players at the Bantam Level (14 to 15 Years Old)—DANY BERNARD, PIERRE TRUDEL, GASTON MARCOTTE, AND ROGER BOILEAU</b>	44
<b>Prevention of Ice Hockey Injuries by Strength and Conditioning—KATIE A. GILDER AND JOHN GROGAN</b>	56

## BEHAVIOR FACTORS

<b>Directions for Research in Oldtimers Hockey: A Summary of Findings on Physical Preparation and Attitudes in the Jordan Oldtimers Hockey League—LORNE J. ADAMS AND WILLIAM J. MONTELPARE</b>	71
<b>Observation of Coach Behaviors During Different Game Score Differentials—JEAN CÔTÉ, PIERRE TRUDEL, DANY BERNARD, ROGER BOILEAU, AND GASTON MARCOTTE</b>	78
<b>Comparison of Penalties Assessed in Minor, Junior, University, and Professional Ice Hockey Leagues—SYLVAIN M. AUDETTE, PIERRE TRUDEL, AND DANY BERNARD</b>	88
<b>The Study of Performance and Aggressive Behaviors of Ice Hockey Players—PIERRE TRUDEL, DANY BERNARD, ROGER BOILEAU, GASTON MARCOTTE, AND SYLVAIN AUDETTE</b>	95
<b>Fair-Play: An Approach to Hockey for the 1990s—GASTON MARCOTTE AND DANIEL SIMARD</b>	103

<b>Reducing Injury in Ice Hockey by Reducing Player Aggression—</b> W. NEIL WIDMEYER AND EDWARD J. MCGUIRE	109
<b>Chronological and Biological Age as Related to Performance in Young Elite Ice Hockey Players—</b> GEORGES LARIVIÈRE, IVAN NICOLETTI, ANNA BOSSI, AND SERGIO MILANI	121
<b>NCAA Hockey Coaches' Perspectives on Current Issues—</b> NORM CHOUINARD AND WAYNE BLANN	128

PLAYING FACILITIES

<b>Rink-Related Injuries in Ice Hockey: A Three-Year Retrospective Review of Injury Report System Data Classified by Zone—</b> PATRICK D. CLAYTON	137
<b>Air Pollutant Exposures Inside Ice Hockey Rinks: Exposure Assessment and Reduction Strategies—</b> MICHAEL BRAUER, JOHN D. SPENGLER, KIYOUNG LEE, AND YUKIO YANAGISAWA	142

PROTECTIVE EQUIPMENT

<b>Eye Protection in Ice Hockey: An Historical Review—</b> TOM PASHBY	159
<b>The Sports Mouthguard: Its Use and Misuse in Ice Hockey—</b> C. R. CASTALDI	164
<b>The Effectiveness of Hockey Helmets in Limiting Localized Loading on the Head—</b> PATRICK J. BISHOP AND JAMES ARNOLD	175
<b>Hockey Equipment: Safety or an Illusion?—</b> LELA JUNE STONER AND MICHAEL KEATING	183
<b>The New ISO Standards for Ice Hockey Helmets and Face Protectors: Moving Toward International Standards Harmonization and Conformity Assessment—</b> JAMES L. DIXON AND IAN K. R. BRODIE	192
<b>Index</b>	215