

# Contents

## Part I Team Physician Management of Spine and Brain Injuries

<b>1</b>	<b>On-Field Assessment and Management of Spine Injuries. . . . .</b>	<b>3</b>
	Shawn Sahota and Bryan Kelly	
<b>2</b>	<b>Considerations for Spinal Cord Injury in the Athlete. . . . .</b>	<b>17</b>
	Joseph E. Molenda, Brian T. David, and Richard G. Fessler	
<b>3</b>	<b>Rehabilitation of the Athlete’s Spine. . . . .</b>	<b>25</b>
	Robert Watkins IV and Michael Kordecki	
<b>4</b>	<b>Diagnosis and On-Field Management of Sports-Related Concussion. . . . .</b>	<b>37</b>
	Lucas T. Buchler and Martin Boublik	
<b>5</b>	<b>Return to Play After Sports Concussion. . . . .</b>	<b>59</b>
	Steven R. Dayton, Hayden P. Baker, Ujash Sheth, Michael A. Terry, and Vehniah K. Tjong	
<b>6</b>	<b>Persistent Post-concussion Symptoms and Long-Term Sequelae. . . .</b>	<b>81</b>
	Jacqueline Turner and Cynthia R. LaBella	

## Part II Injuries to the Cervical Spine

<b>7</b>	<b>Evaluation of Athletes with Neck or Arm Pain . . . . .</b>	<b>91</b>
	Michael H. McCarthy, Joseph A. Weiner, and Todd J. Albert	
<b>8</b>	<b>Transient Brachial Plexopathy (Stingers/Burners) . . . . .</b>	<b>109</b>
	James B. Carr II and Joshua S. Dines	
<b>9</b>	<b>Cervical Cord Neurapraxia . . . . .</b>	<b>123</b>
	Frank H. Valone III and Kiehyun Daniel Riew	
<b>10</b>	<b>Congenital Cervical Anomalies in Athletes. . . . .</b>	<b>133</b>
	Jason L. Pittman, Chong Weng, Steven Theiss, and Andrew M. Cordover	

<b>11</b>	<b>Cervical Disc Herniation in Athletes</b> .....	149
	Shalin S. Patel, Brett David Rosenthal, and Wellington K. Hsu	
<b>12</b>	<b>Cervical Stenosis in the Elite Athlete</b> .....	157
	Tyler J. Jenkins, John M. Rhee, and John G. Heller	
<b>13</b>	<b>Cervical Spine Injuries in Athletes</b> .....	171
	Edward M. DelSole, Brendan Gleason, Nikhil Grandhi, Dhruv K. C. Goyal, Alpesh A. Patel, and Gregory D. Schroeder	
<b>Part III Injuries to the Thoracic and Lumbar Spine</b>		
<b>14</b>	<b>Evaluation of Athletes with Back or Leg Pain</b> .....	185
	Robert L. Brochin, Zoe B. Cheung, and Andrew C. Hecht	
<b>15</b>	<b>Lumbar Disk Herniation and Degenerative Disk Disease in the Athlete</b> .....	201
	Tyler J. Jenkins and Rick C. Sasso	
<b>16</b>	<b>Lumbar Disc Herniation in the Adolescent Athlete</b> .....	215
	Andrew M. Cordover, Jacob B. Cordover, Glenn S. Fleisig, and Jesse A. Raszewski	
<b>17</b>	<b>Spondylolysis and Spondylolisthesis in Athletes</b> .....	235
	Koichi Sairyo, Toshinori Sakai, Yoichiro Takata, Kazuta Yamashita, Fumitake Tezuka, and Hiroaki Manabe	
<b>18</b>	<b>Traumatic Lumbar Injuries in Athletes</b> .....	249
	Elizabeth P. Davis, James E. Showery, Mark L. Prasarn, and Shah-Nawaz M. Dodwad	
<b>19</b>	<b>Thoracic Pathology in Athletes</b> .....	263
	Joseph P. Maslak and Jason W. Savage	
	<b>Index</b> .....	279