

---

# Table of Contents

Craniofacial Biology and Craniofacial Surgery

Bernard G. Sarnat, M.D., D.D.S. and James P. Bradley, M.D.

<i>Recognition</i>	v
<i>Foreword by Geoffrey H. Sperber</i>	vii
<i>Foreword by Joseph G. McCarthy</i>	xi
<i>Preface</i>	xv
<b>Chapter 1</b> Introduction	1
<b>PART I   THE LOWER FACE</b>	<b>15</b>
<b>Chapter 2</b> Growth Pattern of the Pig Mandible	17
<b>Chapter 3</b> Mandibular Condylectomy in Young Monkeys	39
<b>Chapter 4</b> Mandibular Condylectomy in Adult Monkeys	51
<b>Chapter 5</b> Temporalis Muscle and Coronoid Process	69
<b>Chapter 6</b> Fractured Mandible and Incisor	73
<b>Chapter 7</b> The Temporomandibular Joint	81
<b>Chapter 8</b> Condylar Tumors	97

<b>Chapter 9</b>	<b>Overgrowth of Coronoid Processes</b>	<b>101</b>
<b>Chapter 10A</b>	<b>Surgery of the Mandible: Some Clinical and Experimental Considerations</b>	<b>105</b>
<b>Chapter 10B</b>	<b>The Mandible: Clinical Considerations</b>	<b>121</b>
<b>PART II</b>	<b>THE MIDFACE</b>	<b>147</b>
<b>Chapter 11</b>	<b>Osteology of the Rabbit Face</b>	<b>149</b>
<b>Chapter 12A</b>	<b>Normal Growth of the Suture</b>	<b>155</b>
<b>Chapter 12B</b>	<b>Rabbit Snout After Extirpation of the Frontonasal Suture</b>	<b>165</b>
<b>Chapter 13</b>	<b>Growth Pattern of the Nasal Bone Region</b>	<b>177</b>
<b>Chapter 14</b>	<b>Rabbit Nasal Septum</b>	<b>189</b>
<b>Chapter 15</b>	<b>Growth of Multiple Facial Sutures</b>	<b>213</b>
<b>Chapter 16</b>	<b>Maxillary Sinus</b>	<b>225</b>
<b>Chapter 17</b>	<b>The Palate</b>	<b>235</b>
<b>Chapter 18</b>	<b>The Midface: Clinical Considerations</b>	<b>249</b>
<b>PART III</b>	<b>THE ORBIT AND EYE</b>	<b>291</b>
<b>Chapter 19</b>	<b>Osteology of the Orbit</b>	<b>293</b>
<b>Chapter 20</b>	<b>Deceleration of Growth of the Orbit</b>	<b>297</b>
<b>Chapter 21</b>	<b>Orbital Volume After Increase of Orbital Contents</b>	<b>321</b>
<b>Chapter 22</b>	<b>The Eye</b>	<b>329</b>
<b>Chapter 23</b>	<b>The Upper Face and Orbit: Clinical Considerations</b>	<b>335</b>
<b>PART IV</b>	<b>TOOTH DEVELOPMENT AND ASSOCIATED CONDITIONS</b>	<b>355</b>
<b>Chapter 24</b>	<b>Tooth Development</b>	<b>357</b>
<b>Chapter 25</b>	<b>Effects of Hibernation on Tooth Development</b>	<b>361</b>

<b>Chapter 26</b>	<b>Yellow Phosphorus and Teeth</b>	<b>365</b>
<b>Chapter 27</b>	<b>Anodontia</b>	<b>369</b>
<b>Chapter 28</b>	<b>Ameloblastoma</b>	<b>375</b>
<b>Chapter 29</b>	<b>Congenital Syphilis</b>	<b>387</b>
<b>Chapter 30</b>	<b>Enamel Hypoplasia</b>	<b>389</b>
 <b>PART V THE CRANIUM</b>		 <b>391</b>
<b>Chapter 31A</b>	<b>The Skull Base, Sutures, and Long Bones</b>	<b>393</b>
<b>Chapter 31B</b>	<b>Cranial Sutures: Clinical Considerations</b>	<b>397</b>
 <b>PART VI SOME LESSONS LEARNED</b>		 <b>445</b>
<b>Chapter 32</b>	<b>Differential Growth and Healing of Bones and Teeth</b>	<b>447</b>
<b>Chapter 33</b>	<b>Sutural Growth</b>	<b>453</b>
<b>Chapter 34</b>	<b>Effects and Noneffects of Personal Environmental Experimentation on Postnatal Craniofacial Growth</b>	<b>461</b>
<b>Chapter 35</b>	<b>Interstitial Growth of Bones</b>	<b>467</b>
<b>Chapter 36</b>	<b>Some Methods of Assessing Growth of Bones</b>	<b>471</b>
<b>Chapter 37</b>	<b>Cartilage and Cartilage Implants</b>	<b>495</b>
 <b>PART VII PUBLIC HEALTH ASPECTS</b>		 <b>541</b>
<b>Chapter 38A</b>	<b>The Teeth as Recorders of Systemic Disease</b>	<b>543</b>
<b>Chapter 38B</b>	<b>Rickets</b>	<b>545</b>
<b>Chapter 38C</b>	<b>Congenital Syphilis</b>	<b>547</b>
<b>Chapter 38D</b>	<b>Sickle Cell Anemia</b>	<b>549</b>

<b>Chapter 38E</b>	Oral and Facial Cancer	551
<b>Chapter 38F</b>	Oral Occupational Disease	555
<b>Appendix A</b>	Becoming a Plastic Surgeon — Yesterday (BGS)	557
<b>Appendix B</b>	Becoming a Plastic Surgeon — Today (JPB)	575
<i>Index</i>		579