

Contents

Preface	v
Acknowledgments	vii
1 History of Three-Dimensional Imaging of Craniofacial Disorders	1
2 Three-Dimensional Imaging Techniques	5
CT Scanning	5
Data Selection	6
Image Processing	6
Work Station	8
Work Station Products	9
3 Normal Skull	21
Technique	21
4 Craniosynostoses	33
Simple Calvarial Deformities	33
Scaphocephaly	34
Trigonocephaly	34
Turricephaly	34
Oxycephaly	34
Plagiocephaly	34
Craniofacial Syndromes	35
Crouzon Syndrome	35
Apert Syndrome	35
Saethre-Chotzen Syndrome	36
Cohen Syndrome	36
Pfeiffer Syndrome	36
5 Craniofacial Clefts	63
“Tessier” Craniofacial Clefts	63
Treacher Collins Syndrome	64
Craniofacial Microsomia	64

6	Meningoencephaloceles.....	93
	Frontoethmoidal Meningoencephalocele.....	93
	Nasofrontal Defect	93
	Nasoethmoidal Defect	93
	Nasoorbital Defect	94
	Basal Meningoencephalocele	94
7	Growth Disorders	101
	Primary Growth Disorders.....	101
	Microorbitism	101
	Binder Syndrome	101
	Secondary Growth Disorders.....	101
	Romberg Syndrome.....	101
	Radiation Effects	102
8	Tumors.....	111
	Fibrous Dysplasia.....	111
	Neurofibromatosis.....	112
	Hemangiomas	112
9	Trauma.....	129
	Orbitocranial Fractures	129
	Midfacial Fractures.....	129
	Le Fort I (Guerin) Fracture	129
	Le Fort II (Pyramidal) Fracture.....	130
	Le Fort III Fracture (Cranial Disjunction).....	130
	Gunshot Wounds.....	130
	Old Trauma.....	130
	Index	145