

Index

Acceptance of Microscope

endodontic 17

Broken Instruments

endodontic 26

Depth of Field

managing 170

Efficiency

maximizing 243-245

Endodontics

access debridement 40

access opening 28

anatomic discovery 23

enhanced clinical observation 31

fractured teeth 30

instrument removal 27

Kulild-Peters study 23

microscope history of 22

perforation repair 27

periapical surgery 27

Stropko study 23

Stropko's observations 24

Tsisis, et al. study 31

Ergonomics

compromising 10

dentist chair positioning 8

Dr. Michael Patkin 5

ergonomics and the microscope 8

loupes vs. microscope 14

microscope equipment and ergonomics 12

microscope positioning 11

microsurgeon's chair for 9

musculoskeletal disorders 3, 11

patient chair positioning 9

skills 149

tips 13

University of British Columbia survey 4

University of California study 4

Exodontia

- crown removal and sectioning 89
- dilacerated bicuspid 95-99
- implants 100
- intentional fracturing of tooth 96
- maxillary bicuspid 92-95
- maxillary molar 88-92
- removing palatal fragment 97-99
- root displacement 91
- root removal 92
- sectioning for root displacement 89, 93
- separating ligament from tooth 91
- trauma less with microscope 87
- undesirable sequelae 85-85

Field of View

- compensating for diminishing field 170
- field of acute visual cognisance 204

Focus

- fine-tuning 176

Fractured Teeth

- cracked-tooth diagnosis 69

Laboratory

- casting 111
- die examination 111
- die surveying 111
- die trimming 111
- evaluating castings for defects 112
- evaluating sprue attachment 113
- impression evaluation 109
- margin finishing 114
- margin polishing 114
- margin waxing 112
- marking die margins 111
- microscope uses in lab 110
- seating castings on dies 113
- seating of castings clinically 114
- University of California at Los Angeles study 108
- wax density 112

Mandibular Arch

- mandibular anteriors 207
- sequential reduction 236
- techniques in 211-232

Maxillary Anterior

- microscope techniques in 173-174

Maxillary Posterior

- techniques in 180-200

Microscope

- advantages over loupes 121
- avoiding iatrogenic insult 204
- benefits of 3d magnification 122
- choosing magnification levels 204
- coaxial light 124
- four components of dental microscopy 148
- illumination importance 122
- impact on appointment book 126
- learning curve 147
- magnification selection 150-152
- magnifications that are typical 122
- misconceptions 127
- motor-skills 149
- multiple operatories 125
- parfocal procedure 160-161
- patient video monitor 126
- procedures requiring enhanced vision 122
- relative size comparison in dentistry 121
- Zen benefits of 127

Microsurgeon's Chair

- ergonomics 8

Mirror

- direct vs. indirect vision 175
- elliptical mirror issue 236
- mandibular arch primary position 156
- mirror skills 152-153
- mirror-clock concept 179
- obstructions 186
- orbiting 205
- positions for mandibular arch 211-232

Mirror (Continued)

- positions for maxillary anterior 174
- positions for maxillary posterior 180-200
- right vs. left handed operators 180
- two primary mirror positions 153

Motor-Skills

- gross reduction technique 166
- hand holding the typodont in training 168-169
- recommended hand piece sizes 167

Periodontics

- Burkhardt and Lang study 48
- Cortellini-Tonetti study 54
- cosmetic enhancement 46
- debridement 44
- Dr. James Belcher's observations 57-58
- improved motor skills 48
- morbidity lessened 49
- papilla reconstruction 50
- precise incisions 44
- primary closure 46
- rapid healing 48
- refinement of macrosurgery 47
- revascularization improved 52
- root coverage more predictable 49
- suture placement 44-46
- University of Berne, Switzerland study 56-57
- University of Milan study 53

Psycho-Motor Skills

- overcoming problems 176

Resolution

- human limits of 120

Restorative

- caries removal 68
- cementation and removal 76
- cord placement 72
- cracked tooth diagnosis 69
- direct cavity preparations 68
- finishing direct restorations 71
- impression evaluation 73

Restorative (Continued)

- improved indirect preparations 72
- indirect restorations 74-75
- occlusal adjustment 77
- papilla regeneration technique 78-80
- patient acceptance 78
- provisional fabrication 74
- visualization improved 65-67

Studies

- endodontics-Stropko 23
- endodontics-Tsesis, et al 31
- endodontics-Kulild-Peters 23
- ergonomics-University of British Columbia 4
- ergonomics-University of California San Francisco 4
- laboratory-University of California at Los Angeles 108
- periodontics-Burkhardt and Lang 48
- periodontics-Cortellini and Tonetti 54-55
- periodontics-Univ. of Berne Switzerland 56-57
- periodontics-Univ. of Milan 53

Veneers

- special considerations for 244

Veneer Preparations

- performing 175