

Table of Contents

Introduction.....	1
Educational Objectives	1
Instrument Materials.....	2
Care and Handling of New Instruments.....	4
Preoperative and Intraoperative Care and Handling	7
Introduction	7
Sterilization Process	8
Decontamination	8
Sterilization	9
Steam Sterilization	10
Flash Sterilization	11
<i>Table 1 Procedure for Preparing Instruments</i>	12
<i>Table 2 Steam Sterilization Procedure</i>	12
Ethylene Oxide Sterilization	13
<i>Table 3 Gas Sterilization Procedure</i>	15
Gas Plasma Sterilization	15
Cold Sterilization	16
Liquid Chemical Sterilization	19
<i>Table 4 Cold Sterilization Procedure</i>	20
Dry Heat Sterilization	20
Quality Control for the Sterilization Process	21
Monitoring	21
Mechanical Monitoring	22
Chemical Monitoring	22
Biological Monitoring	24
Care and Maintenance	25
Documentation	25
Manual Cleaning	25
<i>Table 5 Procedure for Immediate Cleaning on the Sterile Field</i> ..	26
Postoperative Care and Handling	27
Decontamination	27
Sterilization Detergents	27
<i>Table 6 Decontamination Procedure</i>	28
Ultrasonic Cleaning	28
<i>Table 7 Ultrasonic Cleaning Procedure</i>	29

Lubrication	30
<i>Table 8 Lubrication Procedure</i>	30
Inspection	30
<i>Table 9 Inspection Procedure</i>	31
Identifying Stains	31
Repairs	33
Instrument Storage.....	34
<i>Table 10 Storage Procedure</i>	35
Other Instrument Care	36
Demagnetizing	36
Marking Instruments	36
Instrument Care and Surgical Outcomes	36
Possible Sources of TASS/TECD	37
Disposable or Single-Use Devices (SUDs)	38
Appendix A: Guidelines for Policies and Procedures	39
Appendix B: Sample Policy for Instrument Care and Handling	40
Appendix C: Sample Procedure for Care of Diamond Blades	42
Appendix D: Post-Test (to obtain continuing education credits)...	44
Bibliography	52