

Appendix B

CCOA Content Area Percentages

CONTENT AREA	CCOA %
History Taking	20
Basic Skills & Lensometry	17
Patient Services	16
Basic Tonometry	15
Instrument Maintenance	11
General Medical Knowledge	21

CCOA Sub-Content Areas

CONTENT AREAS	CCOA		
HISTORY TAKING	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Presenting Complaint/History of Presenting Illness <ul style="list-style-type: none"> • Signs and symptoms • Triage • Refractive status • Injury • Contact lenses • Confidentiality Past Ocular History <ul style="list-style-type: none"> • Refractive status problems • Injury • Disease and prescriptions • Surgery and laser • Contact lenses Family History <ul style="list-style-type: none"> • Diabetes • Glaucoma • Hypertension • Ocular diseases and dystrophies • Strabismus • Other Systemic Illness, Past and Present <ul style="list-style-type: none"> • Hypertension • Diabetes • Pulmonary problems </td> <td style="width: 50%; border: none;"> Systemic Illness, Past and Present (cont.) <ul style="list-style-type: none"> • Arthritis • Sickle cell disease • Surgical procedures • Major infections • Other Medications <ul style="list-style-type: none"> • Aspirin-containing medications • Diuretics • Blood pressure medications • Birth control pills • Steroids • Other Allergies and Drug Reactions <ul style="list-style-type: none"> • Penicillin • Sulfa • Local anesthesia • Fluorescein • Other Partially Sighted Patient <ul style="list-style-type: none"> • Onset of visual loss • Use of low vision aids • Problems/goals • Home/family/community support </td> </tr> </table>	Presenting Complaint/History of Presenting Illness <ul style="list-style-type: none"> • Signs and symptoms • Triage • Refractive status • Injury • Contact lenses • Confidentiality Past Ocular History <ul style="list-style-type: none"> • Refractive status problems • Injury • Disease and prescriptions • Surgery and laser • Contact lenses Family History <ul style="list-style-type: none"> • Diabetes • Glaucoma • Hypertension • Ocular diseases and dystrophies • Strabismus • Other Systemic Illness, Past and Present <ul style="list-style-type: none"> • Hypertension • Diabetes • Pulmonary problems 	Systemic Illness, Past and Present (cont.) <ul style="list-style-type: none"> • Arthritis • Sickle cell disease • Surgical procedures • Major infections • Other Medications <ul style="list-style-type: none"> • Aspirin-containing medications • Diuretics • Blood pressure medications • Birth control pills • Steroids • Other Allergies and Drug Reactions <ul style="list-style-type: none"> • Penicillin • Sulfa • Local anesthesia • Fluorescein • Other Partially Sighted Patient <ul style="list-style-type: none"> • Onset of visual loss • Use of low vision aids • Problems/goals • Home/family/community support
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BASIC SKILLS & LENSOMETRY	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Method of Measuring/Recording Acuity <ul style="list-style-type: none"> • Distance acuity • Near acuity • Children • Low vision • Illumination of target and background • Pinhole • Artifacts • Recording Color Vision Testing <ul style="list-style-type: none"> • Color plates • D-15 • Farnsworth-Munsell • Physiology • Children Lensometry <ul style="list-style-type: none"> • Sphere • Cylinder power/axis </td> <td style="width: 50%; border: none;"> Lensometry (cont.) <ul style="list-style-type: none"> • Prism • Multifocal power • Multifocal induced prism • Base curve • Lensometer • Lens clock • Estimation with loose lenses • Aphakic lenses • Recording prescription • Transposition A-Scan Biometry Exophthalmometry Amsler Grid Schirmer Tests Evaluation of Pupils Estimation of Anterior Chamber Depth </td> </tr> </table>	Method of Measuring/Recording Acuity <ul style="list-style-type: none"> • Distance acuity • Near acuity • Children • Low vision • Illumination of target and background • Pinhole • Artifacts • Recording Color Vision Testing <ul style="list-style-type: none"> • Color plates • D-15 • Farnsworth-Munsell • Physiology • Children Lensometry <ul style="list-style-type: none"> • Sphere • Cylinder power/axis 	Lensometry (cont.) <ul style="list-style-type: none"> • Prism • Multifocal power • Multifocal induced prism • Base curve • Lensometer • Lens clock • Estimation with loose lenses • Aphakic lenses • Recording prescription • Transposition A-Scan Biometry Exophthalmometry Amsler Grid Schirmer Tests Evaluation of Pupils Estimation of Anterior Chamber Depth
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PATIENT SERVICES	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Ocular Dressings and Shields <ul style="list-style-type: none"> • Indications • Proper use Drug Delivery (Advantages/Disadvantages) <ul style="list-style-type: none"> • Drops • Ointments • Sustained release • Injections • Systemic • Complications Spectacle Principles <ul style="list-style-type: none"> • Interpupillary distance • Frames </td> <td style="width: 50%; border: none;"> Spectacle Principles (cont.) <ul style="list-style-type: none"> • Multifocal • "Safety" lenses and frames • Adjustments and repairs • Care of spectacles • Lens materials Assisting Patient <ul style="list-style-type: none"> • Physically Disabled • Visually disabled • Pediatric/children Minor Surgery <ul style="list-style-type: none"> • Assisting surgeon • Instructing patient </td> </tr> </table>	Ocular Dressings and Shields <ul style="list-style-type: none"> • Indications • Proper use Drug Delivery (Advantages/Disadvantages) <ul style="list-style-type: none"> • Drops • Ointments • Sustained release • Injections • Systemic • Complications Spectacle Principles <ul style="list-style-type: none"> • Interpupillary distance • Frames 	Spectacle Principles (cont.) <ul style="list-style-type: none"> • Multifocal • "Safety" lenses and frames • Adjustments and repairs • Care of spectacles • Lens materials Assisting Patient <ul style="list-style-type: none"> • Physically Disabled • Visually disabled • Pediatric/children Minor Surgery <ul style="list-style-type: none"> • Assisting surgeon • Instructing patient
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Appendix B

CCOA Sub-Content Areas (cont.)

BASIC TONOMETRY	<p>Applanation</p> <ul style="list-style-type: none"> • Principles • Errors • Cleaning and sterilizing • Advantages/disadvantages • Technique <p>Non-Contact Complications and Contraindications</p> <p>Scleral Rigidity</p> <ul style="list-style-type: none"> • General concepts • Methods of assessing scleral rigidity 	<p>Factors Altering Intraocular Pressure</p> <ul style="list-style-type: none"> • Squeezing eyelids • Heartbeat • Breath holding • Tight collar • Body position • Other
INSTRUMENT MAINTENANCE	<p>Acuity Projectors</p> <p>Ophthalmoscopes</p> <ul style="list-style-type: none"> • Direct • Indirect <p>Retinoscopes</p> <p>Lensometers</p> <p>Perimeters</p> <p>Tangent Screen</p> <p>Phoropters</p>	<p>Slit Lamps</p> <p>Ultrasound</p> <p>Keratometers</p> <p>Lenses</p> <p>Tonometers</p> <p>Muscle Light</p> <p>Special Instruments (Equipment)</p> <p>Surgical Instruments</p>
GENERAL MEDICAL KNOWLEDGE	<p>Cardiopulmonary Resuscitation</p> <ul style="list-style-type: none"> • Fainting • Cardiac Arrest • Acute drug reaction <p>Anatomy</p> <ul style="list-style-type: none"> • Cardiovascular • Respiratory • Endocrine • Nervous • Ocular <p>Physiology</p> <ul style="list-style-type: none"> • Cardiovascular • Respiratory • Endocrine • Nervous • Ocular <p>Systemic Diseases</p> <ul style="list-style-type: none"> • Diabetes • Hypertension • Cancer • Atherosclerosis 	<p>Systemic Diseases (cont.)</p> <ul style="list-style-type: none"> • Blood • Infections • Blood dyscrasia • Infectious disease <p>Ocular Disease</p> <ul style="list-style-type: none"> • Refractive errors • Infection • Injury • Red eye • Presbyopia • Other common disorders <p>Ocular Emergencies</p> <ul style="list-style-type: none"> • First aid • Management in the absence of the physician <p>Metric Conversions</p> <p>Fundamentals of Microbial Control</p> <ul style="list-style-type: none"> • Sanitation • Disinfection • Sterilization • Contamination