# Clinical Decision Support (CDS) Content and Health Level 7 (HL7)Compliant Knowledge Artifacts (KNARTs)

**Eye Care Clinical Content White Paper** 

**Department of Veterans Affairs (VA)** 



Knowledge Based Systems (KBS)
Office of Informatics and Information Governance (OIIG)
Clinical Decision Support (CDS)

## Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs): Eye Care Clinical Content White Paper

by Department of Veterans Affairs (VA)

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Contract: VA118-16-D-1008, Task Order (TO): VA-118-16-F-1008-0007

Table 1. Relevant KNART Information: Eye Care

Eye Care KNART	Associated CLIN
Eye Care – Documentation Template	CLIN0009DA

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## **VA Subject Matter Expert (SME) Panel**

Name	Title	Project Role
Linda Wedemeyer, MD	Ophthalmologist/Physician Informatician Knowledge Based Systems, Office of Health Informatics Los Angeles, CA	SME, Primary
Mary Lynch, MD	Ophthalmologist Atlanta VA Medical Center (VAMC) Atlanta, GA	SME, Secondary
Rex Ballinger	Optometrist Baltimore VAMC Baltimore, MD	SME
Thomas Garrido	Optometrist Scott AFB, IL	SME
David Eliason	Ophthalmologist Deputy Director, Vision Center of Excellence Martinsburg VAMC Martinsburg, WV	SME
Kristin Biggerstaff	Ophthalmologist Glaucoma Specialist Michael E. DeBakey VAMC Houston, TX	SME
Matthew Cordes	Chief of Optometry The Villages VA OPC The Villages, FL	SME

## Introduction

The VA is committed to improving the ability of clinicians to provide care for patients while increasing quality, safety, and efficiency. Recognizing the importance of standardizing clinical knowledge in support of this goal, VA is implementing the Health Level 7 (HL7) Knowledge Artifact Specification for a wide range of VA clinical use cases. Knowledge Artifacts, referred to as (KNARTs), enable the structuring and encoding of clinical knowledge so the knowledge can be integrated with electronic health records to enable clinical decision support.

The purpose of this Clinical Content White Paper (CCWP) is to capture the clinical context and intent of KNART use cases in sufficient detail to provide the KNART authoring team with the clinical source material to construct the corresponding knowledge artifacts using the HL7 Knowledge Artifact Specification. This paper has been developed using material from a variety of sources: VA artifacts, clinical practice guidelines, evidence in the body of medical literature, and clinical expertise. After reviewing these sources, the material has been synthesized and harmonized under the guidance of VA subject matter experts to reflect clinical intent for this use case.

Unless otherwise noted, items within this white paper (e.g., documentation template fields, orderable items, etc.) are chosen to reflect the clinical intent at the time of creation. To provide an exhaustive list of all possible items and their variations is beyond the scope of this work.

## **Conventions Used**

Conventions used within the knowledge artifact descriptions include:

<obtain>: Indicates a prompt to obtain the information listed

- If possible, the requested information should be obtained from the underlying system(s). Otherwise, prompting the user for information may be required
- The technical and clinical notes associated with a section should be consulted for specific constraints on the information (e.g., time-frame, patient interview, etc.)
- Default Values: Unless otherwise noted, <obtain> indicates to obtain the most recent observation. It is recognized that this default time-frame value may be altered by future implementations

[...]: Square brackets enclose explanatory text that indicates some action on the part of the clinical user, or general guidance to the clinical or technical teams. Examples include, but are not limited to:

[Begin ...], [End ...]: Indicates the start and end of specific areas to clearly delineate them for technical purposes.

[Activate ...]: Initiates another knowledge artifact or knowledge artifact section.

[Section Prompt: ...]: If this section is applicable, then the following prompt should be displayed to the user.

[Section Selection Behavior: ...]: Indicates technical constraints or considerations for the selection of items within the section.

[Attach: ...]: Indicates that the specified item should be attached to the documentation template if available.

[Link: ...]: Indicates that rather than attaching an item, a link should be included in the documentation template.

[Clinical Comment: ...]: Indicates clinical rationale or guidance.

[Technical Note: ...]: Indicates technical considerations or notes.

[If ...]: Indicates the beginning of a conditional section.

[Else, ...]: Indicates the beginning of the alternative branch of a conditional section.

[End if ...]: Indicates the end of a conditional section.

☐ [Check box]: Indicates items that should be selected based upon the section selection behavior.

## **Chapter 1 - Eye Care**

## **Section 1.1 - Clinical Context**

[Begin Clinical Context.]

Eye care at the VA lacks data output from routine clinical documentation, impeding clinical care, performance improvement, and research. Although work has been done in both the DoD/VA Vision Center of Excellence (Optimal Vision Care Prototype) and the VA (Eye Care SmartForm) to define eye care documentation requirements and standardized data output, that work has not been implemented. This documentation template aims to go a step farther by conforming to HL7 standards for clinical decision support, furthering the aim of an easily shareable tool with shareable data output from routine clinical documentation.

**Table 1.1. Clinical Context Domains** 

Target User	Provider in an Ophthalmology or Optometry clinic
Patient	Adult outpatient
Priority	Routine
Specialty	Eye Care
Location	Outpatient

[End Clinical Context.]

## **Section 1.2 - Knowledge Artifacts**

[Begin Knowledge Artifacts.]

This Clinical Content White Paper includes one knowledge artifact, a documentation template as defined by the HL7 CDS KNART specification.

This section describes the single CDS KNART that is included in the Eye Care group:

- A Documentation Template: Eye Care KNART
  - o Documents information recorded during an eye exam.
  - o Includes logic for appropriate display of documentation sections.

[End Knowledge Artifacts.]

# **Chapter 2 - Documentation Template: Eye Care**

[Begin Eye Care Documentation Template.]

## **Section 2.1 - Knowledge Narrative**

[Begin Knowledge Narrative.]

Maintaining vision is an important part of maintaining functional independence. In addition to loss of vision, eye diseases can cause significant symptoms and may represent manifestations of systemic conditions. As a result, eye care is a key component of medical care. The development of standardized, structured data elements has contributed to improvements in patient care, performance improvement, reporting, and research (Eleu Pacific Partners, March 2015). However, such documentation practices have not been consistently implemented. The development of a standardized, structured, comprehensive eye care documentation template that can be used across the VA system has the potential to lead to better integration of care, further performance improvement, ease reporting, and enable enhanced research capabilities.

[End Knowledge Narrative.]

## Section 2.2 - Chief Complaint/Reason for Visit

[Begin C	Chief Complain	t/Reason fo	r Visi	t.]		
Section Prompt: Is this a returning patient?]						
[Section	Selection Beha	avior: Selec	one,	required.]		
	Yes					
[Tecl	nnical Note: Au	ıto populate	prior	visit date (s).]		
<obta< td=""><td>ain&gt; Prior visit</td><td>date (s)</td><td></td><td></td></obta<>	ain> Prior visit	date (s)				
	No					
[Section	Prompt: Chief	Compliant/	Reaso	on for Visit]		
[Section	Selection Beha	avior: Selec	any.	One selection is required.]		
	Routine Eye	Exam				
	Eye Sympton	ns				
		Blurred V	ision			
				Both Eyes		
				Right Eye		
				Left Eye		
		Eye Pain				
				Both Eyes		
				Right Eye		

					Left Eye
			Other		
					Both Eyes
					Right Eye
					Left Eye
			<obtain></obtain>	> Deta	ails
	Follow u	p Vis	it		
			Glaucoma	Suspe	ect
			Glaucoma		
			Diabetic R	etino	pathy
			Cataract		
			Macular D	egene	eration
			Other		
			<obtain> □</obtain>	Details	S
	Post-Op	Visit			
	<obtain></obtain>		dure		
			dure Date		
			Both Eyes		
			Right Eye		
			Left Eye		
<obtain:< th=""><th>&gt; Addition</th><th></th><th>•</th><th></th><th></th></obtain:<>	> Addition		•		
[End Ch	nief Compl	aint/F	Reason for V	/isit.]	
Sec	tion 2	2.3	- Hist	ory	of Present Illness
[Begin l	History of 1	Prese	nt Illness.]		
<obtain:< th=""><th>&gt; Sympton</th><th>ns</th><th></th><th></th><th></th></obtain:<>	> Sympton	ns			
<obtain:< th=""><th>&gt; Duration</th><th>of sy</th><th>mptoms</th><th></th><th></th></obtain:<>	> Duration	of sy	mptoms		
<obtain:< th=""><th>&gt; Severity</th><th></th><th></th><th></th><th></th></obtain:<>	> Severity				

[End History of Present Illness.]

<obtain> Laterality
<obtain> Other details

## **Section 2.4 - Past Ocular History**

[Begin Past Ocular History.]

[Technical Note: Provide link to Most Recent Ophthalmology visit note.]

## **Section 2.4.1. - Eye Conditions**

[Begin Eye Conditions.]

[Technical Note: Pre-populate from the electronic medical record history if data available. Allow all data to be updated.]

[Section Prompt: Eye Conditions.]

[Section Selection Behavior: Select any or none. Optional.]

☐ Age-Related Macular Degeneration (AMD)

[Technical Note: Link to Age-Related Eye Disease Study (AREDS) AMD Category definitions <a href="https://www.aao.org/preferred-practice-pattern/age-related-macular-degeneration-ppp-2015">https://www.aao.org/preferred-practice-pattern/age-related-macular-degeneration-ppp-2015</a>.]

[Section Prompt: the following AMD classification system is adapted from American Academy of Ophthalmology's 2015 Age-Related Macular Degeneration Preferred Practice Pattern Guidelines (American Academy of Ophthalmology Retina/Vitreous Panel, 2015).]

[Technical Note: Allow user to hover over the link and reveal an informational flyout box with the classification outlined below.]

Age-related macular degeneration (AMD) is a disorder of the macula characterized by one or more of the following (for specific terms, see Glossary):

- Presence of at least intermediate-size drusen (63 µm or larger in diameter)
- Retinal pigment epithelium (RPE) abnormalities such as hypopigmentation or hyperpigmentation
- Reticular pseudodrusen<sup>4</sup>
- Presence of any of the following features: geographic atrophy of the RPE, choroidal neovascularization (exudative, wet), polypoidal choroidal vasculopathy, or retinal angiomatous proliferation.
- There are a number of classifications of AMD in the literature. This Preferred Practice Pattern uses the classification of the Age-Related Eye Disease Study (AREDS) and a more recent clinical classification⁵to define the early and intermediate stages of AMD since current treatment recommendations are based on these classifications. The AREDS was a prospective multicenter randomized clinical trial conducted between 1992 and 2006 designed to assess the natural course and risk factors for age-related cataract and AMD. The effects of antioxidant vitamins and minerals on these two ocular conditions were studied.

The classification of AMD from the AREDS is as follows:

- **No AMD** (AREDS category 1) represented the control group; it is characterized by no or few small drusen (<63 µm in diameter).
- **Early AMD** (AREDS category 2) is characterized by a combination of multiple small drusen, few intermediate drusen (63–124 μm in diameter), or mild RPE abnormalities.
- Intermediate AMD (AREDS category 3) is characterized by any of the following features:
  - o Numerous intermediate drusen
  - O At least one large druse (125 μm or larger in diameter)
  - o Geographic atrophy (a sharply demarcated, usually round or oval, area of atrophy of the RPE not involving the center of the fovea)
- Advanced AMD (AREDS category 4) is characterized by one or more of the following (in the absence of other causes) in one eye:
  - o Geographic atrophy of the RPE involving the foveal center

0		0 1	Choroidal no choroidal va Serous and/o Retinal hard Subretinal a Disciform so	bathy that includes the following: eovascularization (CNV) defined as pathologic angiogenesis originating from the asculature that extends through a defect in Bruch's membrane or hemorrhagic detachment of the neurosensory retina or RPE exudates (a secondary phenomenon resulting from chronic intravascular leakage) and sub-RPE fibrovascular proliferation car (subretinal fibrosis)
		Early	y AMD	
				Right Eye
				Left Eye
		<obt< td=""><td>ain&gt; Descrip</td><td>otion</td></obt<>	ain> Descrip	otion
		Inter	mediate AM	ID
				Right Eye
				Left Eye
		<obt< td=""><td>ain&gt; Descrip</td><td>ption</td></obt<>	ain> Descrip	ption
		Adva	anced AMD	: Neovascular
				Right Eye
				Left Eye
		<obt< td=""><td>ain&gt; Descrip</td><td>ption</td></obt<>	ain> Descrip	ption
		Adva	anced AMD	: Geographic Atrophy
				Right Eye
				Left Eye
		<obt< td=""><td>ain&gt; Descrip</td><td>otion</td></obt<>	ain> Descrip	otion
A	mbly	opia		
			Both Eyes	3
			Right Eye	
			Left Eye	
<0	obtair	ı> De	scription	
В	lepha	ritis		
<ol< td=""><td>btain</td><td>&gt; Desc</td><td>cription</td><td></td></ol<>	btain	> Desc	cription	
В	lindn	ess		
			Both Eyes	S

	Right Eye
	Left Eye
<obtain> Des</obtain>	scription
Cataract	
	Both Eyes
	Right Eye
	Left Eye
<obtain> Des</obtain>	scription
Chalazion	
	Both Eyes
	Right Eye
	Left Eye
<obtain> Des</obtain>	scription
Corneal Gutta	ata
	Both Eyes
	Right Eye
	Left Eye
<obtain> Des</obtain>	scription
Cystoid Macı	ılar Edema
	Both Eyes
	Right Eye
	Left Eye
<obtain> Des</obtain>	scription
Diabetes Mel	litus without Retinopathy
	Both Eyes
	Right Eye
	Left Eye
<obtain> Des</obtain>	scription
Diabetic Reti	nopathy

[Technical Note: If Diabetic Retinopathy is selected, provide a link <a href="https://www.aao.org/preferred-practice-pattern/diabetic-retinopathy-ppp-updated-2017">https://www.aao.org/preferred-practice-pattern/diabetic-retinopathy-ppp-updated-2017</a>]

[Technical Note: Allow user to hover over the link and reveal an informational flyout box with the classification outlined below.]

- No apparent retinopathy: No abnormalities
- Mild Nonproliferative Retinopathy (NPDR): Microaneurysms only
- Moderate NPDR: More than just microaneurysms but less than severe NPD
- **Severe NPDR**: Any of the following and no signs of proliferative retinopathy:
  - O Severe intraretinal hemorrhages and microaneurysms in each of the four quadrants
  - Definite venous bleeding in two or more quadrants
  - Moderate IRMA in one or more quadrants
- **Proliferative Retinopathy (PDR)**: One or both of the following.
  - Neovascularization
  - Vitreous/preretinal hemorrhage
- **High-Risk PDR**: The presence of at least three of the following findings:
  - Neovascularization (at any location)
  - Neovascularization at the optic disc
  - Severe neovascularization:
    - New vessels within one-disc diameter of the optic nerve head that are larger than onequarter to one-third disc area in size
    - New vessels elsewhere that are at least one-half disc area in size
  - Vitreous or preretinal hemorrhage
- Clinically Significant Macular Edema is defined by the ETDRS to include any of the following features:
  - Thickening of the retina at or within 500 um of the center of the macula
  - Hard exudates at or within 500 um of the center of the macula, when associated with adjacent retinal thickening.
  - A zone or zones of retinal thickening one disc area or larger, where any portion of the thickening
    is within one disc diameter of the center of the macula.

[Section Prompt: Diabetic retinopathy definitions are adapted from American Academy of Ophthalmology's Diabetic Retinopathy Preferred Practice Pattern, updated 2017 (American Academy of Ophthalmology Retina/Vitreous Panel, 2016).]

/Vitre	eous Panel, 2016).]	, I	`	,	1	2,7	
	Mild Nonproliferative Diab	etic Retinopa	thy				
	☐ Right Eye						
	□ Left Eye						
<(	obtain> Description						
	Moderate Nonproliferative	Diabetic Retin	opathy				
	☐ Right Eye						
	☐ Left Eye						
<(	obtain> Description						
	Severe Nonproliferative Dia	betic Retinop	athy				
	☐ Right Eye						

	☐ Left Eye				
<obtain> Description</obtain>					
□ Non-	High-Risk Proliferative Diabetic Retinopathy				
	☐ Right Eye				
	☐ Left Eye				
<obtain> Des</obtain>	cription				
□ High	Risk Proliferative Diabetic Retinopathy				
	□ Right Eye				
	□ Left Eye				
<obtain> Des</obtain>	scription				
□ Clinic	cally Significant Diabetic Macular Edema				
	☐ Right Eye				
	☐ Left Eye				
<obtain> Des</obtain>	cription				
Dry Eye					
	Both Eyes				
	Right Eye				
	Left Eye				
<obtain> Des</obtain>	cription				
Endophthalm	itis				
	Both Eyes				
	Right Eye				
	Left Eye				
<obtain> Des</obtain>	scription				
Epiretinal Me	embrane				
	Both Eyes				
	Right Eye				
	Left Eye				
<obtain> Des</obtain>	scription				
Eve Trauma					

Both Eyes							
Right Eye							
Left Eye							
Nature of Injury							
	]	Blunt					
		<obtain></obtain>	Descr	ription			
	]	Penetratin	ıg				
		<obtain></obtain>	Descr	ription			
	]	Chemical					
		<obtain></obtain>	Descr	ription			
	]	Optic Ner	ve				
		<obtain></obtain>	Descr	ription			
	]	Other					
		<obtain></obtain>	Descr	ription			
[Section Pror	mpt	t: Date of I	njury]	]			
	]	On					
		<obtain></obtain>	Date				
	]	About					
		<obtain></obtain>	Numb	er of Incre	ments	Ago	
				Days ago			
				Weeks age	0		
				Months ag	go		
				Years ago			
	]	Around					
						January	
						February	
						March	
						April	
						May	
						June	

								July
								August
								September
								October
								November
								December
						Year		
						<obtain></obtain>	Year	
				During				
								Winter of
								Spring of
								Summer of
								Autumn of
						Year		
						<obtain></obtain>	Year	
				Unknowr	1			
		[Section I	Promp	ot: Add ano	ther in	njury?]		
		[Technica	ıl Not	e: If "yes"	is sele	ected below	, pres	ent the questions above again.]
				Yes				
	Fuchs Endo	thelial Corne	al Dy	strophy				
		Both Eye	S					
		Right Eye	•					
		Left Eye						
	<obtain> De</obtain>	escription						
☐ Glaucoma Suspect								
	[Technical Note: If glaucoma suspect is selected, provide a link https://www.aao.org/preferred-practice-pattern/primary-open-angle-glaucoma-suspect-ppp-update-201]							
		Both Eye	s					
		Right Eye	;					
		Left Eye						
	<obtain> De</obtain>	escription						

	Physiologic Cupping/Asymmetry			
		Both Eyes		
		Right Eye		
		Left Eye		
	<obtain> Des</obtain>	scription		
	Ocular Hyperte	nsion		
		Both Eyes		
		Right Eye		
		Left Eye		
	<obtain> Des</obtain>	scription		
☐ Glaucoma				
[Technical Note: It open-angle-glauco		ected, provide a link https://www.aao.org/preferred-practice-pattern/primary-018]		
[Section Promp	t: Type of Glauce	oma]		
	Open-Angle Gl	aucoma (OAG)		
		Right Eye		
		Left Eye		
	Narrow Angle	Glaucoma (NAG)		
		Right Eye		
		Left Eye		
	Secondary Glau	acoma		
<obtain> Desc</obtain>	cription			

[Section Prompt: Disease definition, clinical findings, and severity categories derived from the American Academy of Ophthalmology's Preferred Pattern for Primary Open Angle Glaucoma.]

[Technical Note: Please make the following guidance viewable via "hover to discover"]

#### DISEASE DEFINITION

Primary open-angle glaucoma (POAG) is a chronic, progressive optic neuropathy in adults in which there is a characteristic acquired atrophy of the optic nerve and loss of retinal ganglion cells and their axons. This condition is associated with an open anterior chamber angle by gonioscopy.

#### CLINICAL FINDINGS CHARACTERISTIC OF PRIMARY OPEN-ANGLE GLAUCOMA

Primary open-angle glaucoma (POAG) is a chronic, progressive optic neuropathy in adults in which there is a characteristic acquired atrophy of the optic nerve and loss of retinal ganglion cells and their axons. This condition is associated with an open anterior chamber angle by gonioscopy.

Primary open-angle glaucoma is a chronic ocular disease process that is progressive, generally bilateral, but often asymmetric. It is associated with the following characteristics.

- Evidence of optic nerve damage from either, or both, of the following:
  - Optic disc or retinal nerve fiber later (RNFL) structural abnormalities
    - Diffuse or focal narrowing, or notching, of the optic disc rim, especially at the inferior or superior poles, which forms the basis for the ISNT rule (see subsection on optic nerve head and retinal nerve fiber layer clinical examination in the Physical Exam section)
    - Progressive narrowing of the neuroretinal rim with an associated increase in cupping of the optic nerve
    - Diffuse or localized abnormalities of the parapapillary RNFL, especially at the inferior or superior poles
    - Disk rim, parapapillary RNFL, or lamina cribrosa hemorrhages
    - Optic disc neural rim asymmetry of the two eyes consistent with loss of neural tissue
    - Large extent of parapapillary atrophy
  - Reliable and reproducible visual field abnormality considered a valid representation of the subject's functional status
    - Visual field damage consistent with RNFL damage (e.g., nasal step, arcuate field defect, or paracentral depression in clusters of test sites)
    - Visual field loss across the horizontal midline in one hemifield that exceeds loss in the opposite hemifield (in early/moderate cases)
    - Absence of other know explanations (e.g., disc drusen, optic nerve pit)
- Adult Onset
- Open anterior chamber angles
- Absence of other known explanations (i.e., secondary glaucoma) for progressive glaucomatous optic nerve change (e.g., pigment dispersion, pseudoexfoliation [exfoliation syndrome], uveitis, trauma, and corticosteroid use)

Primary open-angle glaucoma represents a spectrum of disease in adults in which the susceptibility of the optic nerve to damage varies among patients. Although many patients with PAOG present with elevated intraocular pressure (IOP), nearly 40% of those with otherwise characteristic POAG many not have elevated IOP measurements. The vast majority of patients with POAG have disc changes or disc and visual field changes, but there are rare cases where there may be early visual field changes before there are detectable changes to the optic nerve.

The severity of glaucoma damage can be estimated according to the following categories:

- Mild: definite optic disc or RNFL abnormalities consistent with glaucoma as detailed above and a normal visual field as tested with standard automated perimetry (SAP)
- Moderate: definite optic disk or RNFL abnormalities consistent with glaucoma as detailed above, and
  visual field abnormalities in one hemifield that are not within 5 degrees of fixation in at least one hemifield
  as tested with SAP
- Severe: definite optic disc or RNFL abnormalities consistent with glaucoma as detailed above, and visual field abnormalities in both hemifields and/or loss within 5 degrees of fixation in at least one hemifield as tested with SAP
- Indeterminate: definite optic disc or RNFL abnormalities consistent with glaucoma as detailed above, inability of patient to perform visual field testing, unreliable/uninterpretable visual field test results, or visual fields not performed yet

[Section Prompt: For assistance with glaucoma billing codes: ICD-10 Glaucoma Staging Definitions, American Academy of Ophthalmology website: <a href="https://www.aao.org/practice-management/news-detail/icd-10-glaucoma-staging-definitions">https://www.aao.org/practice-management/news-detail/icd-10-glaucoma-staging-definitions</a>]

	Mild Glaucoma			
		Both Eyes		
		Right Eye		
		Left Eye		
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	Moderate Glau	coma		
		Both Eyes		
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		Left Eye		
	<obtain> De</obtain>	scription		
	Severe Glauco	ma		
		Both Eyes		
		Right Eye		
		Left Eye		
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	Indeterminate (	Glaucoma		
		Both Eyes		
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	<obtain> Tar</obtain>	rget Intraocular Pressure Right Eye (mm Hg)		
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Macular Hole	e			
	Both Eyes			
	Right Eye			
	Left Eye			
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Nonglaucoma	atous Visual Fiel	d Defects		

		Both Eyes
		Right Eye
		Left Eye
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Optic A	troph	у
		Both Eyes
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Pseudop	hakia	ı
		Both Eyes
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Pterygiu	ım	
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Retinal	Detac	chment
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			Both Eyes
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	Other		
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			Left Eye
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[End Pa	st Ocular	Histor	y.]
Sec	tion	2.5	- Past Ocular Procedures
[Begin I	Past Ocula	ar Proc	redures.]
			pulate fields based on history. Allow all fields to be updated. Allow user to enter multiple "Yes" for "Add Another [Procedure Name]."]
[Section	Prompt:	Past O	cular Procedures]
[Section	Selection	n Beha	vior: One or more. Optional]
		Catara	act Surgery
		Corne	al Surgery
		Refrac	ctive Surgery
		YAG	(Yttrium Aluminum Garnet) Laser Capsulotomy
		Cyclo	destruction
		Gonio	otomy
		Laser	Iridotomy
		Laser	Trabeculoplasty
		Minin	nally Invasive Glaucoma Surgery
		Trabe	culectomy
		Tube	Shunt
		Focal	Macular Laser Retina
		Intrav	itreal Injection

	Panretinal Photocoagulation								
	Posterior Vitrectomy								
	Retinal Detachment Repair (Scleral Buckle)								
	Retinopexy								
	Blepharoplasty								
	Enucleation								
	Ptosis Repair								
	Strabismus Surgery								
[Technical Note: selected.]	Activate the associated sub-sections associated with the "Past Ocular Procedures" checkboxes								
	Cataract Surgery								
	□ Right Eye								
	□ No Complications								
	☐ Complications								
	☐ Anterior Vitrectomy								
	□ Vitreous Loss								
	□ Dropped Lens								
	<obtain> Description</obtain>								
	[Section Prompt: Lens Type]								
	☐ Standard Lens (Monofocal Lens)								
	☐ Multifocal Lens								
	☐ Toric Lens								
	☐ Accommodating Lens								
	Section Prompt: Date of Surgery]								
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Left Eye				
		No Comp	olicatio	ons
		Complica	ations	
				Anterior Vitrectomy
				Vitreous Loss
				Dropped Lens
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[Section Prompt: Lens Type]								
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		Multifocal Lens						
		Toric Lens						
		Accommodating Lens						
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[Section	on Proi	npt: Add Ar	nothe	r Cataract Su	ırgery	7?]
□ Ye	es					
	Corn	eal Surgery				
		Right Eye				
				Descemet's	s Strip	oping Endothelial Keratoplasty (DSEK)
				Descemet S	Stripp	ing Automated Endothelial Keratoplasty (DSAEK)
				Penetrating	g kera	toplasty
				Lamellar k	eratoj	plasty
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Left Eye				
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[Section Prompt: Add Another	Corneal Surgery	?]
□ Yes		
☐ Refractive Surgery		
□ Right Eye		
	LASIK (Laser-A	assisted in Situ Keratomileusis)
	PRK (Photorefra	active Keratectomy)
	LRI (Limbal Rel	axing Incisions)
[Section Promp	t: Date of Surgery	·]
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Left Eye				

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		LASIK (Laser-Assisted in Situ Keratomileusis)						
		PRK (Photorefractive Keratectomy)						
		LRI (Limbal Relaxing Incisions)						
[Section Prompt: Date of Surgery]								
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[Sec	[Section Prompt: Add Another Refractive Surgery?]								
□ Yes									
	YAG	(Yttrium Al	umin	um Garnet)	) Lase	er Capsulotomy			
		Right Eye							
		[Section Pr	ompt	: Date of P	roced	ure]			
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[Section Pr	ompt: A	Add Another	YAG	L	aser Cap	suloto	omy?]
	Yes						
	Cyclo	odestruction					
		Right Eye					
		[Section Pr	ompt	: D	oate of S	urgery	7]
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[Section P	rompt: A	Add Another	Cycle	odestruction	n?]	
	Yes					
	Goni	otomy				
		Right Eye				
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Section Prompt: Add Another	Gonic	otomy?]		
□ Yes				
☐ Laser Iridotomy				
□ Right Eye				
[Section]	Prom	pt: Date of	Proce	dure]

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[Section Prompt: Date of Procedure]							
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[Section	Pro	mpt: A	dd Anothe	er Iridot	omy?]		
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		Laser	Trabeculo	plasty			
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[Section Prompt: Add Another Lase	er Trabeculoplast	y?]	
□ Yes			
☐ Minimally Invasive G	laucoma Surgery		
□ Right Eye			
	iStent		
	CyPass		
	Trabectome		
	TRAB360 Trab	eculotomy	
	Xen Gel Stent		
[Sec	ction Prompt: Da	te of Surgery]	
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		Xen Gel St	ent			
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			During		
					Winter of
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								Summer of
								Autumn of
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						Unknown	L	
		<obtain> A</obtain>	Additi	onal Detail	S			
[Secti	on Pro	mpt: Add An	other	Trabecule	ctomy	?]		
□ Ye	es							
	Tube	Shunt						
		Right Eye						
		[Section Pr	rompt	: Date of S	urger	y]		
				On				
				<obtain></obtain>	Mont	h/Day/Year		
				About				
				<obtain></obtain>	Num	ber of Incre	ments	s Ago
						Days ago		
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						Months a	go	
						Years ago	)	
				Around				
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						Novembe	r	

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		During		
				Winter of
				Spring of
				Summer of
				Autumn of
		<obtain></obtain>	Year	
		Unknown	Į.	
Left Eye				
[Section Pr	ompt	: Date of Si	ırgery	7]
		On		
		<obtain></obtain>	Mont	h/Day/Year
		About		
		<obtain></obtain>	Numb	per of Increments Ago
				Days ago
				Weeks ago
				Months ago
				Years ago
		Around		
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				September
				October

						November
						December
				<obtain></obtain>	Year	
				During		
						Winter of
						Spring of
						Summer of
						Autumn of
				<obtain></obtain>	Year	
				Unknown		
		<obtain> A</obtain>	dditio	onal Details	3	
[Section	n Pron	npt: Add And	other	Tube Shum	t?]	
□ Yes	3					
	Focal	Macular La	ser			
		Right Eye				
		[Section Pr	ompt	: Date of Pr	ocedu	ire]
				On		
				<obtain></obtain>	Montl	n/Day/Year
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						Days ago
						Weeks ago
						Months ago
						Years ago
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		<obtain></obtain>	Year	
		During		
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				Spring of
				Summer of
				Autumn of
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		Unknown	l	
Left Eye				
[Section Pr	ompt	: Date of Pr	rocedi	ure]
		On		
		<obtain></obtain>	Mont	h/Day/Year
		About		
		<obtain></obtain>	Numb	per of Increments Ago
				Days ago
				Weeks ago
				Months ago
				Years ago
		Around		
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	<obtain></obtain>	Year	
	During		
			Winter of
			Spring of
			Summer of
			Autumn of
	<obtain> \</obtain>	Year	
	Unknown		
<obtain> Additi</obtain>	onal Details		
[Section Prompt: Add Another	Focal Macu	ılar L	aser?]
□ Yes			
☐ Intravitreal Injection			
□ Right Eye			
	[Section Pr	ompt:	Agent]
	[Section Se	lectio	n Behavior: Select one. Required]
			Bevacizumab
			Ranibizumab
			Aflibercept
			Other
			<obtain> details</obtain>
	[Section Pr	ompt:	Date of Procedure]
			On

		About		
		<obtain></obtain>	Numl	per of Increments Ago
				Days ago
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				Years ago
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				Spring of
				Summer of
				Autumn of
		<obtain></obtain>	Year	
		Unknow	ı	
Left Eye				
	Agent			

<obtain> Month/Day/Year

Ц	Bevacızumab					
	Ranibizumab					
	Aflibercept					
	<obtain> d</obtain>	etails				
[Section Promp	t: Date of Pr	ocedi	ure]			
	On					
	<obtain></obtain>	Mont	h/Day/Year			
	About					
	<obtain></obtain>	Numl	per of Increments Ago			
			Days ago			
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						<obtain></obtain>	Year	
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		<obtain> A</obtain>	Additi	onal Detail	s			
[Section	on Pror	npt: Add An	other	Intravitrea	l Injec	ction?]		
□ Ye	s							
	Panre	etinal Photoc	oagul	ation				
		Right Eye						
		<obtain> N</obtain>	Numbe	er of Laser	Spots			
		[Section Pr	rompt	: Date of P	roced	ure]		
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				<obtain></obtain>	Mont	h/Day/Year		
				About				
				<obtain></obtain>	Numl	per of Incre	ments	s Ago
						Days ago		
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						Months ag	go	
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				Summer of
				Autumn of
		<obtain></obtain>	Year	
		Unknown	1	
Left Eye				
<obtain> N</obtain>	Numb	er of Laser	Spots	
[Section P	rompt	: Date of Pr	rocedi	ure]
		On		
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		About		
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						Autumn of
				<obtain></obtain>	Year	
				Unknowr	ı	
		<obtain> A</obtain>	Additi	onal Detail	S	
[Secti	on Pro	mpt: Add An	other	Panretinal	Photo	ocoagulation?]
□ Ye	es					
	Poste	erior Vitrecto	my			
		Right Eye				
		[Section Pr	ompt	: Date of S	urger	y]
				On		
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				About		
				<obtain></obtain>	Num	ber of Increments Ago
						Days ago
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		During		
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				Spring of
				Summer of
				Autumn of
		<obtain></obtain>	Year	
		Unknown		
Left Eye				
[Section Pr	ompt	: Date of Su	ırgery	7]
		On		
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		About		
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			Autumn of
	<obtain> Y</obtain>	'ear	
	Unknown		
<obtain> Addition</obtain>	onal Details		
[Section Prompt: Add Another	Posterior Vi	trect	omy?]
□ Yes			
☐ Retinal Detachment Re	pair (Scleral	Buc	kle)
□ Right Eye			
[Section Prompt	: Date of Sur	rgery	]
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			Weeks ago

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				Autumn of
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U	Jnkn	own		
Left Eye				
[Section Pro	mpt:	Date of Su	ırgery	]
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						December
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				During		
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						Summer of
						Autumn of
				<obtain></obtain>	Year	
				Unknown		
		<obtain> A</obtain>	dditio	onal Details	;	
[Section	n Pron	npt: Add An	other	Retinal Det	achm	ent Repair?]
□ Yes						
	Retin	opexy				
		Right Eye				
		[Section Pr	ompt	: Date of Pr	ocedu	ıre]

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			Spring of
			Summer of
			Autumn of
	<obtain></obtain>	Year	
	Unknown		
Left Eye			

[Section Prompt: Date of Procedure]							
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	<obtain></obtain>	<obtain> Month/Day/Year</obtain>					
	About						
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			Weeks ago				
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			Years ago				
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			Spring of				
			Summer of				
			Autumn of				
	<obtain></obtain>	Year					

□ Unknown

## <obtain> Additional Details

[Section	n Proi	npt: Add An	other	Retinopexy	y?]	
☐ Yes	8					
	Blepl	naroplasty				
		Right Eye				
		[Section Pi	ompt	: Date of Su	ırgery	7]
				On		
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				Autumn of
		<obtain></obtain>	Year	
		Unknown		
Left Eye				
[Section P	rompt	: Date of Su	ırgery	7]
		On		
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		About		
		<obtain></obtain>	Numb	per of Increments Ago
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				December
		<obtain></obtain>	Year	

□ During

						Winter of
						Spring of
						Summer of
						Autumn of
				<obtain> Y</obtain>	<i>Y</i> ear	
				Unknown		
		<obtain> A</obtain>	dditio	onal Details		
[Section	on Pron	npt: Add And	other	Blepharopla	asty?]	
□ Ye	s					
	Enucl	eation				
		Right Eye				
		[Section Pr	ompt:	Date of Su	rgery	]
				On		
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				Autumn of
		<obtain></obtain>	Year	
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Left Eye				
[Section Pr	ompt	: Date of Su	ırgery	7]
		On		
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		About		
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				Days ago
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				Years ago
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						December
				<obtain></obtain>	Year	
				During		
						Winter of
						Spring of
						Summer of
						Autumn of
				<obtain></obtain>	Year	
				Unknown		
		<obtain> A</obtain>	Additi	onal Details	S	
[Section	n Pror	npt: Add An	other	Enucleation	n?]	
□ Yes	S					
	Ptosis	s Repair				
		Right Eye				
		[Section Pr	rompt	: Date of Su	ırgery	<i>y</i> ]
				On		
				<obtain></obtain>	Mont	h/Day/Year
				About		
				<obtain></obtain>	Numl	per of Increments Ago
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						Years ago
				Around		
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				Summer of
				Autumn of
		<obtain></obtain>	Year	
		Unknown		
Left Eye				
[Section Pr	ompt	: Date of Su	ırgery	7]
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		About		
		<obtain></obtain>	Numb	per of Increments Ago
				Days ago
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				Months ago
				Years ago
		Around		
				January
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						November
						December
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				During		
						Winter of
						Spring of
						Summer of
						Autumn of
				<obtain></obtain>	Year	
				Unknown	1	
		<obtain></obtain>	Additi	onal Detail	s	
[Section	n Prom	pt: Add And	other I	Ptosis Repa	ir?]	
□ Yes						
	Strab	ismus Surge	ery			
		Right Eye				
		[Section P	rompt	: Date of S	urgery	/]
				On		
				<obtain></obtain>	Mont	h/Day/Year
				About		
				<obtain></obtain>	Numl	per of Increments Ago
						Days ago
						Weeks ago

				Months ago
				Years ago
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				Summer of
				Autumn of
		<obtain></obtain>	Year	
		Unknow	n	
Left Eye				
[Section Pr	rompt	:: Date of S	urger	<b>v</b> ]
		On		
		<obtain></obtain>	Mont	h/Day/Year
		About		
		<obtain></obtain>	Numl	per of Increments Ago
				Days ago

				Weeks ago
				Months ago
				Years ago
		Around		
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				November
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		<obtain></obtain>	Year	
		During		
				Winter of
				Spring of
				Summer of
				Autumn of
		<obtain> Y</obtain>	Year	
		Unknown		
<obtain> A</obtain>	dditio	onal Details		
[Section Prompt: Add Another	Strab	ismus Surge	ery?]	
□ Yes				
☐ Other Surgery/Procedure				
<obtain> Description</obtain>				
□ Right Eye				

[Section Prompt: Date of Surgery]				
	On			
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	About			
	<obtain></obtain>	Numb	per of Increments Ago	
			Days ago	
			Weeks ago	
			Months ago	
			Years ago	
	Around			
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			November	
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			Winter of	
			Spring of	
			Summer of	
			Autumn of	
	<obtain></obtain>	Year		

□ Unknown

Left Eye				
[Section Pr	ompt:	Date of Su	ırgery	]
		On		
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		About		
		<obtain></obtain>	Numb	er of Increments Ago
				Days ago
				Weeks ago
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				Years ago
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		<obtain></obtain>	Year	

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<obtain> Additional Details

[Section Prompt: Add Another Other Surgery/Procedure?]

□ Yes

[End Past Ocular Procedures.]

## ditions

Section	2.6	- Family History of Ocular Cond
		of Ocular Conditions.]
		y ocular history.]
☐ Blindr	ness	
[Section	Promp	t: Relationship]
		Mother
		Maternal Grandmother
		Maternal Grandfather
		Maternal Half-Sister
		Maternal Half-Brother
		Maternal Aunt
		Maternal Uncle
		Father
		Paternal Grandmother
		Paternal Grandfather
		Paternal Half-Sister
		Paternal Half-Brother
		Paternal Aunt
		Paternal Uncle
		Sister
		Brother
		Daughter
		Son
		Other

<obtain> Detail

☐ Corneal Dystr	rophy		
[Section Prompt: Relationship]			
	Mother		
	Maternal Grandmother		
	Maternal Grandfather		
	Maternal Half-Sister		
	Maternal Half-Brother		
	Maternal Aunt		
	Maternal Uncle		
	Father		
	Paternal Grandmother		
	Paternal Grandfather		
	Paternal Half-Sister		
	Paternal Half-Brother		
	Paternal Aunt		
	Paternal Uncle		
	Sister		
	Brother		
	Daughter		
	Son		
	Other		
<ob< td=""><td>tain&gt; Detail</td></ob<>	tain> Detail		
☐ Glaucoma			
[Section Promp	t: Relationship]		
	Mother		
	Maternal Grandmother		
	Maternal Grandfather		
	Maternal Half-Sister		
	Maternal Half-Brother		
	Maternal Aunt		

	Maternal Uncle
	Father
	Paternal Grandmother
	Paternal Grandfather
	Paternal Half-Sister
	Paternal Half-Brother
	Paternal Aunt
	Paternal Uncle
	Sister
	Brother
	Daughter
	Son
	Other
<ob< td=""><td>otain&gt; Detail</td></ob<>	otain> Detail
☐ Macular Deg	eneration
	Cheration
	ot: Relationship]
[Section Promp	ot: Relationship]
[Section Promp	ot: Relationship]  Mother
[Section Promp	ot: Relationship]  Mother  Maternal Grandmother
[Section Promp	ot: Relationship]  Mother  Maternal Grandmother  Maternal Grandfather
[Section Promp	ot: Relationship]  Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister
[Section Promp	ot: Relationship]  Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister  Maternal Half-Brother
[Section Promp	ot: Relationship]  Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister  Maternal Half-Brother  Maternal Aunt
[Section Promp	ot: Relationship]  Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister  Maternal Half-Brother  Maternal Aunt  Maternal Uncle
[Section Promp	Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister  Maternal Half-Brother  Maternal Aunt  Maternal Uncle  Father
[Section Promp	Mother Maternal Grandmother Maternal Grandfather Maternal Half-Sister Maternal Half-Brother Maternal Aunt Maternal Uncle Father Paternal Grandmother
[Section Promp	Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister  Maternal Half-Brother  Maternal Aunt  Maternal Uncle  Father  Paternal Grandmother  Paternal Grandfather
[Section Promp	Mother  Maternal Grandmother  Maternal Grandfather  Maternal Half-Sister  Maternal Half-Brother  Maternal Aunt  Maternal Uncle  Father  Paternal Grandmother  Paternal Grandfather  Paternal Half-Sister

	Sister
	Brother
	Daughter
	Son
	Other
<obt< td=""><td>ain&gt; Detail</td></obt<>	ain> Detail
Retinal Detacl	hment
[Section Prompt	: Relationship]
	Mother
	Maternal Grandmother
	Maternal Grandfather
	Maternal Half-Sister
	Maternal Half-Brother
	Maternal Aunt
	Maternal Uncle
	Father
	Paternal Grandmother
	Paternal Grandfather
	Paternal Half-Sister
	Paternal Half-Brother
	Paternal Aunt
	Paternal Uncle
	Sister
	Brother
	Daughter
	Son
	Other
<obt< td=""><td>ain&gt; Detail</td></obt<>	ain> Detail
Retinal Dystro	pphy

[Section Prompt: Relationship]

		Mother
		Maternal Grandmother
		Maternal Grandfather
		Maternal Half-Sister
		Maternal Half-Brother
		Maternal Aunt
		Maternal Uncle
		Father
		Paternal Grandmother
		Paternal Grandfather
		Paternal Half-Sister
		Paternal Half-Brother
		Paternal Aunt
		Paternal Uncle
		Sister
		Brother
		Daughter
		Son
		Other
	<ob< td=""><td>tain&gt; Detail</td></ob<>	tain> Detail
□ Other		
[Section	Promp	t: Relationship]
		Mother
		Maternal Grandmother
		Maternal Grandfather
		Maternal Half-Sister
		Maternal Half-Brother
		Maternal Aunt
		Maternal Uncle
		Father

		]	Paternal Grandmother
		]	Paternal Grandfather
			Paternal Half-Sister
		]	Paternal Half-Brother
		]	Paternal Aunt
		]	Paternal Uncle
		]	Sister
		]	Brother
		]	Daughter
		]	Son
		]	Other
	<	obta	ain> Detail
<obtain< td=""><td>n&gt; Additional</td><td>Det</td><td>ails</td></obtain<>	n> Additional	Det	ails
[End F	amily History	of (	Ocular Conditions.]
Sec	ction 2.	7	- Pertinent Systematic Medical History
			- Pertinent Systematic Medical History atic Medical History.]
[Begin [Techn health	Pertinent Sysnical Note: Autrecord. Also a	tem tom llov	-
[Begin [Techn health	Pertinent Sysnical Note: Autrecord. Also a	tem tom llov	atic Medical History.] atically check conditions listed below if they are on the problem list within the electronic user to select and add other problems from the problem list. Allow all fields to be
[Begin [Techn health update	Pertinent Systical Note: Autrecord. Also a d. Note to imp	tem tom llov olem	atic Medical History.] atically check conditions listed below if they are on the problem list within the electronic vuser to select and add other problems from the problem list. Allow all fields to be lentation: The VA problem list is encoded in SNOMED CT.]
[Begin [Techn health update	Pertinent Systical Note: Autrecord. Also a d. Note to imp	tem tom illov olem	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic vuser to select and add other problems from the problem list. Allow all fields to be dentation: The VA problem list is encoded in SNOMED CT.]
[Begin [Techn health: update	Pertinent Systical Note: Autrecord. Also a d. Note to imp  Asthma <obtain> Des</obtain>	tem tom llov olem scrip	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic vuser to select and add other problems from the problem list. Allow all fields to be dentation: The VA problem list is encoded in SNOMED CT.]  otion
[Begin [Techn health: update	Pertinent Systical Note: Autrecord. Also a d. Note to imp Asthma <obtain> Des Atrial Fibri <obtain> Des</obtain></obtain>	tem tom illov blem scrip illat	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic vuser to select and add other problems from the problem list. Allow all fields to be dentation: The VA problem list is encoded in SNOMED CT.]  otion
[Begin [Techn health update	Pertinent Systical Note: Autrecord. Also a d. Note to imp Asthma <obtain> Des Atrial Fibri <obtain> Des</obtain></obtain>	tem llov blem scrip illat scrip	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic values to select and add other problems from the problem list. Allow all fields to be dentation: The VA problem list is encoded in SNOMED CT.]  otion  otion  ic Hypertrophy
[Begin [Techn health update	Pertinent Systical Note: Autrecord. Also a d. Note to imp Asthma <obtain> Des Atrial Fibri <obtain> Des Benign Pro</obtain></obtain>	tem tom illow blem scrip illat scrip ostat	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic values to select and add other problems from the problem list. Allow all fields to be dentation: The VA problem list is encoded in SNOMED CT.]  otion  ic Hypertrophy  otion
[Begin   Techn health   updates	Pertinent Systical Note: Autrecord. Also a d. Note to imp Asthma <obtain> Des Atrial Fibri <obtain> Des Benign Pro <obtain> Des</obtain></obtain></obtain>	tem tllov blem scrip illat scrip ostat scrip tery	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic value to select and add other problems from the problem list. Allow all fields to be dentation: The VA problem list is encoded in SNOMED CT.]  otion  otion  otion  otion  Disease
[Begin   Techn health   updates	Pertinent Systical Note: Autrecord. Also a d. Note to imp Asthma <obtain> Des Atrial Fibri <obtain> Des Benign Pro <obtain> Des Carotid Artial Artial Artial Artial Artial Artial Artial Articles</obtain></obtain></obtain>	tem tom illov illov scrip illat scrip scrip ttery	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic value to select and add other problems from the problem list. Allow all fields to be intentation: The VA problem list is encoded in SNOMED CT.]  otion  ion  otion  Disease  otion
[Begin [Techn health updates	Pertinent Systical Note: Autrecord. Also a d. Note to imposite Asthma <obtain> Des Atrial Fibrit <obtain> Des Benign Pro <obtain> Des Carotid Articoloris Des Carotid Articol</obtain></obtain></obtain>	tem tom illov illov scrip illat scrip scrip tery Arte	atic Medical History.]  atically check conditions listed below if they are on the problem list within the electronic vaser to select and add other problems from the problem list. Allow all fields to be lentation: The VA problem list is encoded in SNOMED CT.]  otion  otion  ic Hypertrophy otion  Disease  otion  ry Disease

Chronic Obstructive Pulmonary Disease

<obtain> Description

Congestive Heart Failure
<obtain> Description</obtain>
Connective Tissue Disease/Rheumatologic Conditions
<obtain> Description</obtain>
Diabetes Mellitus
<obtain> Description</obtain>
Other Endocrine Disorder
<obtain> Description</obtain>
HIV Infection
<pre><obtain> Most Recent CD4 Count (cells/mm^3)</obtain></pre>
<pre><obtain> Most Recent Viral Load (copies/mL)</obtain></pre>
<obtain> Description</obtain>
Hypertension
<obtain> Description</obtain>
Hyperthyroidism
<obtain> Description</obtain>
Multiple Sclerosis
<obtain> Description</obtain>
Myocardial Infarction
<obtain> Description</obtain>
Renal Failure
<obtain> Description</obtain>
Sleep Apnea
<obtain> Description</obtain>
Stroke/Transient ischemic attack (TIA)
<obtain> Description</obtain>
Syphilis
<obtain> Description</obtain>
Traumatic Brain Injury
<obtain> Description</obtain>

<obtain> Additional Details

[End Pertinent Systematic Medical History.]

# **Section 2.8 - Pertinent Social History**

[Begin Pertinent Social History.]

### **Section 2.8.1. - Smoking and Substance Use**

<b>9</b>	
[Begin Smoking and Substance Use.]	
[Section Prompt: Do you currently use tobacco?]	
[Section Prompt: Tobacco includes cigarettes, pipe, cigars, and smokeless tobacco, such as snus. Excludes e-cigarettes, ENDS (electronic nicotine delivery systems), and vaping devices to the control of	
[Section Selection Behavior: Select only one. Required.]	
□ Every day	
☐ Some days	
□ Not at all	
[Technical Note: Those patients reporting use every day or some days will be considuser.]	dered a Current Tobacco
[Technical Note: Display the following only if "Not at all" is selected in section "Do you cu	urrently use tobacco?"]
[Section Prompt: Have you ever used tobacco?]	
[Section Selection Behavior: Select only one. Required.]	
□ Never user	
☐ Former user	
[Section Prompt: Substance Use History.]	
[Section Selection Behavior: Select all that apply.]	
□ Alcohol	
☐ Cocaine	
□ Opioid	
□ Marijuana	
□ Other	
□ Never user	
<obtain> Description</obtain>	
[End Smoking and Substance Use.]	
<obtain> Additional Pertinent Social History Information</obtain>	
[End Pertinent Social History.]	

#### **Section 2.9 - Medications**

[Begin Medications.]

<obtain> Eye Medication

[Technical Note: Auto populate Eye Medications from electronic record and include the end user option to update list.]

<obtain> Other Medications (Including Over-The-Counter Medications and Supplements)

[Technical Note: Auto populate Over-The-Counter Medications and Supplements from the electronic health record and include the end user option to update list.]

[End Medications.]

## **Section 2.10 - Allergies**

[Begin Allergies.]

[Section Prompt: Allergies to Eye Medications.]

<obtain> Allergies to Eye Medications

[Technical Note: Auto populate "Allergies to Eye Medications" and include option to update list.]

[Section Prompt: Other Allergies.]

<obtain> Other Allergies

[Technical Note: Auto populate "Other Allergies" and include option to update list.]

[End Allergies.]

### Section 2.11 - Ocular Exam

[Begin C	Ocular Exam.]	
[Section	Prompt: Ocular Exam.]	
[Section	Selection Behavior: One or more. Optional]	
	Visual Acuity	
	☐ Distance Vision	
	□ Near Vision	
	Lensometry	
□ Refraction		
	☐ Distance Visual Acuity with Refraction	
	☐ Near Vision Acuity Refraction	
	Intraocular Pressure Measurement	
	External Eye Exam	
	Silt Lamp	
	Fundoscopic Exam	
ſΤe	chnical Note: Activate associated subsections selected in the "Ocular Exam" checkboxes	

### Section 2.11.1. - Visual Acuity

[Begin Visual Acuity.]

[Technical Note: Provide link to Visual Acuity History including display of vision over time for returning patients.] [End Visual Acuity.]

#### **Section 2.11.1.1. - Distance Vision**

Begin Distance Vision	.]		
Section Prompt: Dista	nce Vision]		
Technical Note: Snelle editable.]	en is default for the Visual Acuity Chart. The default chart distance is 10 feet. Both should be		
Section Prompt: Snelle	en is default for the Visual Acuity Chart.]		
Obtain> Visual Acuit	y Chart		
Section Prompt: Indica	ate below if you wish to select a different visual acuity chart.]		
	Early Treatment Diabetic Retinopathy Study (ETDRS)		
	Other		
	<obtain> Chart Name</obtain>		
obtain> Chart Distanc	re		
Section Prompt: Dista	nce Units]		
Technical Note: Prese	lect "Feet" as Distance Units. Allow user to edit per preference.]		
	□ Centimeters		
	Inches		
	Feet		
	Meters		
	te: Allow user to repeat Distance Vision section from here down as many times as needed by for New Distance Acuity Exam below.]		
Testing Cond	itions		
	Uncorrected		
	Glasses		
	<obtain> Description</obtain>		
	Contact Lenses		
	<obtain> Description</obtain>		
	Best Corrected Vision		
	Pinhole		
	Potential Acuity Meter		

		Glare	
		Other	
		<obtain> Descri</obtain>	iption
Right Eye	;		
			te: The values represent the visual acuity scale in feet, with the corresponding ers, decimal, and LogMar in parentheses.]
			20/10 (6/3, 2.00, -0.30)
			20/12.5 (6/3.8, 1.60, -0.20)
			20/15 (6/4.5, 1.33, -0.12)
			20/16 (6/4.8, 1.25, -0.10)
			20/20 (6/6, 1.00, +0.00)
			20/25 (6/7.5, 0.80, +0.10)
			20/30 (6/9.0, 0.67, +0.18)
			20/32 (6/9.5, 0.63, +0.20)
			20/40 (6/12, 0.50, +0.30)
			20/50 (6/15, 0.40, +0.40)
			20/63 (6/19, 0.32, +0.50)
			20/70 (6/21, 0.29. +0.54)
			20/80 (6/24, 0.25, +0.60)
			20/100 (6/30, 0.20, +0.70)
			20/125 (6/38, 0.16, +0.80)
			20/160 (6/48, 0.125, +0.90)
			20/200 (6/60, 0.10, +1.00)
			20/250 (6/75, 0.08, +1.10)
			20/320 (6/95, 0.06, +1.20)
			20/400 (6/120, 0.05, +1.30)
			Count Fingers
			<obtain> Distance</obtain>
			Distance Units
			☐ Centimeters
			☐ Inches

			Meters
		Hand Motion	
		<obtain> Distar</obtain>	nce
		Distance Units	
			Centimeters
			Inches
			Feet
			Meters
		Light Perceptio	n without Projection
		Light Perceptio	n with Projection
		No Light Perce	ption
	Number of Mis	ssed Letters	
	Letters Seen qu	estions if Count l	by Number of Missed Letters and Number of Additional Fingers, Hand Motion, Light Perception without Projection, on, or No Light Perception is selected for Visual Acuity
		-1	
		-2	
		-3	
	Number of Ado	ditional Letters Se	een
		+1	
		+2	
		+3	
Left Eye			
			resent the visual acuity scale in feet, with the corresponding LogMar in parentheses.]
		20/10 (6/3, 2.00	), -0.30)
		20/12.5 (6/3.8,	1.60, -0.20)
		20/15 (6/4.5, 1.	33, -0.12)
		20/16 (6/4.8, 1.	25, -0.10)
		20/20 (6/6, 1.00	), +0.00)

□ Feet

	20/25 (6/7.5, 0.80, +0.10)			
	20/30 (6/9.0, 0.67, +0.18)			
	20/32 (6/9.5, 0.63, +0.20)			
	20/40 (6/12, 0.50, +0.30)			
	20/50 (6/15, 0.4	10, +0.40)		
	20/63 (6/19, 0.3	32, +0.50)		
	20/70 (6/21, 0.2	29. +0.54)		
	20/80 (6/24, 0.2	25, +0.60)		
	20/100 (6/30, 0	.20, +0.70)		
	20/125 (6/38, 0	.16, +0.80)		
	20/160 (6/48, 0	.125, +0.90)		
	20/200 (6/60, 0	.10, +1.00)		
	20/250 (6/75, 0	.08, +1.10)		
	20/320 (6/95, 0	.06, +1.20)		
	20/400 (6/120,	0.05, +1.30)		
	Count Fingers			
	<obtain> Distar</obtain>	nce		
	Distance Units			
		Centimeters		
		Inches		
		Feet		
		Meters		
	Hand Motion			
	<obtain> Distar</obtain>	nce		
	Distance Units			
		Centimeters		
		Inches		
		Feet		
		Meters		
_	I :=1-4 D=====4:=	n without Projection		

			Light Perception with Projection
			No Light Perception
		Number of Missed Letters	
		Letters Seen que	e: Do not display Number of Missed Letters and Number of Additional estions if Count Fingers, Hand Motion, Light Perception without Projection, on with Projection, or No Light Perception is selected for Visual Acuity
			-1
			-2
			-3
		Number of Add	litional Letters Seen
			+1
			+2
			+3
□ E	Both Eyes		
			e: The values represent the visual acuity scale in feet, with the corresponding rs, decimal, and LogMar in parentheses.]
			20/10 (6/3, 2.00, -0.30)
			20/12.5 (6/3.8, 1.60, -0.20)
			20/15 (6/4.5, 1.33, -0.12)
			20/16 (6/4.8, 1.25, -0.10)
			20/20 (6/6, 1.00, +0.00)
			20/25 (6/7.5, 0.80, +0.10)
			20/30 (6/9.0, 0.67, +0.18)
			20/32 (6/9.5, 0.63, +0.20)
			20/40 (6/12, 0.50, +0.30)
			20/50 (6/15, 0.40, +0.40)
			20/63 (6/19, 0.32, +0.50)
			20/70 (6/21, 0.29. +0.54)
			20/80 (6/24, 0.25, +0.60)
			20/100 (6/30, 0.20, +0.70)
			20/125 (6/38, 0.16, +0.80)

	20/200 (6/60, 0	0.10, +1.00)
	20/250 (6/75, 0	0.08, +1.10)
	20/320 (6/95, 0	0.06, +1.20)
	20/400 (6/120,	0.05, +1.30)
	Count Fingers	
	<obtain> Dista</obtain>	nce
	Distance Units	
		Centimeters
		Inches
		Feet
		Meters
	Hand Motion	
	<obtain> Dista</obtain>	nce
	Distance Units	
		Centimeters
		Inches
		Feet
		Meters
	Light Perception	on without Projection
	Light Perception	on with Projection
	No Light Perce	eption
Number of Mis	ssed Letters	
Letters Seen qu	nestions if Count on with Projection	ay Number of Missed Letters and Number of Additiona Fingers, Hand Motion, Light Perception without Projection on, or No Light Perception is selected for Visual Acuity
	-1	
	-2	
	-3	
Number of Ado	ditional Letters S	een
	+1	

 $\square$  20/160 (6/48, 0.125, +0.90)

values in inch	es, centimeters, M notation, decimal and approximate Jaeger in parentheses.)
	20/10 (16/8, 40/20, 0.20, 2.00, -)
	20/12.5 (16/10, 40,25, 0.25, 1.60, -)
	20/16 (16/12.8, 40/32, 0.32, 1.25, -)
	20/20 (16/16, 40/40, 0.40, 1.00, 1)
	20/25 (16/20, 40/50, 0.50, 0.80, 1)
	20/30 (16/23.8, 40/60, 0.60, 0.67, 2)
	20/32 (16/25.4, 40/63, 0.64, 0.63, 2)
	20/40 (16/32, 40/80, 0.80, 0.50, 5)
	20/50 (16/40, 40/100, 1.0, 0.40, 7)
	20/63 (16/50, 40/125, 1.3, 0.32, 4-7)
	20/80 (16/64, 40/160, 1.6, 0.25, 5-9)
	20/100 (16/80, 40/200, 2.0, 0.20, 8-12)
	20/125 (16/100, 40/250, 2.5, 0.16, 9-12)
	20/160 (16/128, 40/400, 4.0, 0.10, 15-18)
Number of M	ssed Letters
	-1
	-2
	-3
Number of Ac	ditional Letters Seen
	+1
	+2
	+3
Left Eye	
	ote: The values represent the visual acuity scale in feet, with the corresponding es, centimeters, M notation, decimal and approximate Jaeger in parentheses.]
	20/10 (16/8, 40/20, 0.20, 2.00, -)
	20/12.5 (16/10, 40,25, 0.25, 1.60, -)
	20/16 (16/12.8, 40/32, 0.32, 1.25, -)
	20/20 (16/16, 40/40, 0.40, 1.00, 1)

[Technical Note: The values represent the visual acuity scale in feet, with the corresponding

		20/25 (16/20, 40/50, 0.50, 0.80, 1)
		20/30 (16/23.8, 40/60, 0.60, 0.67, 2)
		20/32 (16/25.4, 40/63, 0.64, 0.63, 2)
		20/40 (16/32, 40/80, 0.80, 0.50, 5)
		20/50 (16/40, 40/100, 1.0, 0.40, 7)
		20/63 (16/50, 40/125, 1.3, 0.32, 4-7)
		20/80 (16/64, 40/160, 1.6, 0.25, 5-9)
		20/100 (16/80, 40/200, 2.0, 0.20, 8-12)
		20/125 (16/100, 40/250, 2.5, 0.16, 9-12)
		20/160 (16/128, 40/400, 4.0, 0.10, 15-18)
	Number of Mis	sed Letters
		-1
		-2
		-3
	Number of Add	litional Letters Seen
		+1
		+2
		+3
Both Eyes		
		e: The values represent the visual acuity scale in feet, with the corresponding s, centimeters, M notation, decimal and approximate Jaeger in parentheses.]
		20/10 (16/8, 40/20, 0.20, 2.00, -)
		20/12.5 (16/10, 40,25, 0.25, 1.60, -)
		20/16 (16/12.8, 40/32, 0.32, 1.25, -)
		20/20 (16/16, 40/40, 0.40, 1.00, 1)
		20/25 (16/20, 40/50, 0.50, 0.80, 1)
		20/30 (16/23.8, 40/60, 0.60, 0.67, 2)
		20/32 (16/25.4, 40/63, 0.64, 0.63, 2)
		20/40 (16/32, 40/80, 0.80, 0.50, 5)
		20/50 (16/40, 40/100, 1.0, 0.40, 7)
		20/63 (16/50, 40/125, 1.3, 0.32, 4-7)

		20/80 (16/64, 40/160, 1.6, 0.25, 5-9)
		20/100 (16/80, 40/200, 2.0, 0.20, 8-12)
		20/125 (16/100, 40/250, 2.5, 0.16, 9-12)
		20/160 (16/128, 40/400, 4.0, 0.10, 15-18)
	Number of Mis	sed Letters
		-1
		-2
		-3
	Number of Add	litional Letters Seen
		+1
		+2
		+3
	[Section Prompt: New	w Near Acuity Exam.]
		Yes
	<obtain> Visual Acu</obtain>	ity Notes
[End Ne	ear Vision.]	
[End Vi	sual Acuity]	
Secti	on 2.11.2 Lensom	etry
[Begin I	Lensometry.]	
[Technic record b		cent lensometry findings and allow importation to the electronic health
[Link: L	ink to Import Most Recent Lenso	ometry Findings.]
	cal Note: Allow user to repeat Le Lensometry Exam below.]	nsometry section from here down as many times as needed by selecting yes
[Section	Prompt: Lensometry Method.]	
	Manual	
	Automated	
<	obtain> Additional Details	
[Section	Prompt: Optical Correction Type	e.]
	Current Glasses	
	Other	
<	<obtain> Description</obtain>	

```
[Section Prompt: Right Eye.]
       <obtain> Sphere (Diopters)
       <obtain> Cylinder (Diopters)
       <obtain> Axis (Degrees)
       <obtain> Add Power #1 (Diopters)
       <obtain> Add Power #2 (Diopters)
       <obtain> Prism Power (Diopters)
        [Section Prompt: Prism Base.]
                 □ Up
                 □ Down
                 □ In
                 □ Out
[Section Prompt: Left Eye.]
       <obtain> Sphere (Diopters)
       <obtain> Cylinder (Diopters)
       <obtain> Axis (Degrees)
       <obtain> Add Power #1 (Diopters)
       <obtain> Add Power #2 (Diopters)
       <obtain> Prism Power (Diopters)
       [Section Prompt: Prism Base.]
                Up
                Down
                In
                Out
[Section Prompt: Interpupillary Distance
        <obtain> Far Interpupillary Distance both eyes
        <obtain> Near Interpupillary Distance both eyes
        <obtain> Right eye Interpupillary Distance
        <obtain> Left eye interpupillary Distance
[Section Prompt: New Lensometry Exam?]
```

	Yes			
	No			
<obtain></obtain>	Lensometry N	Notes		
[End Lei	nsometry.]			
Secti	on 2.11.3	Refraction		
[Begin R	Refraction.]			
[Section	Prompt: Refra	ction]		
[Techni	cal Note: Provi	de link to Refraction Exam History for returning patients.]		
		to Refraction Exam History.]		
"yes" for	r New Refracti			
[Section	Prompt: Refra	ction Testing Method and Conditions.]		
	Auto-refraction	on		
	Subjective re	fraction		
	Retinoscopy			
	Cycloplegic/I	Mydriatic		
		Cyclopentolate		
		Homatropine		
		Phenylephrine		
		Tropicamide		
		Other		
		<obtain> Cycloplegic Name</obtain>		
	Over Refracti	ion with Glasses		
	Over Refraction with Contacts			
	l Trial Lens Refraction			
	Other			
<	obtain> Descr	iption		
[Section	Prompt: Right	Eye]		
<	obtain> Spher	e (Diopters)		
<	obtain> Cylino	der (Diopters)		
<	obtain> Axis (	(Degrees)		

<obtain> Add Power Near (Diopters)

<obtain> Add P</obtain>	Power Intermediate (Diopters)		
<obtain> Prism Power (Diopters)</obtain>			
[Section Promp	[Section Prompt: Prism Base.]		
	Up		
	Down		
	In		
	Out		
[Section Prompt: Left B	Eye]		
<obtain> Sphere</obtain>	e (Diopters)		
<obtain> Cylino</obtain>	der (Diopters)		
<obtain> Axis (Degrees)</obtain>			
<obtain> Add Power Near (Diopters)</obtain>			
<obtain> Add P</obtain>	<obtain> Add Power Intermediate (Diopters)</obtain>		
<obtain> Prism Power (Diopters)</obtain>			
[Section Prompt: Prism Base.]			
	Up		
	Down		
	In		
	Out		
[End Refraction.]			
<b>Section 2.11.3.1</b>	- Distance Visual Acuity with Refraction		
[Begin Distance Visual	Acuity with Refraction.]		
[Section Prompt: Distance Visual Acuity with Refraction]			
[Technical Note: Snellen is default for the Visual Acuity Chart. The default chart distance is 10 feet. Both should be editable.]			
[Section Prompt: Snellen is default for the Visual Acuity Chart.]			
<obtain> Visual Acuity Chart</obtain>			
[Section Prompt: Select	[Section Prompt: Select below if you wish to select a different visual acuity chart.]		
	Early Treatment Diabetic Retinopathy Study (ETDRS)		
	Other		
	<obtain> Chart Name</obtain>		

<obtain> Chart Distance

[Section Prompt: Distar	nce Units]
[Technical Note: Prese	lect "Feet" as Distance Units. Allow user to edit per preference.]
	Centimeters
	Inches
	Feet
	Meters
[Section Prompt: Right	Eye.]
[Technical Note: The v decimal, and in LogMA	alues represent the visual acuity scale in feet, with the corresponding values for meters, in AR in parentheses.]
	20/10 (6/3, 2.00, -0.30)
	20/12.5 (6/3.8, 1.60, -0.20)
	20/15 (6/4.5, 1.33, -0.12)
	20/16 (6/4.8, 1.25, -0.10)
	20/20 (6/6, 1.00, +0.00)
	20/25 (6/7.5, 0.80, +0.10)
	20/30 (6/9, 0.67, +0.18)
	20/32 (6/9.5, 0.63, +0.20)
	20/40 (6/12, 0.50, +0.30)
	20/50 (6/15, 0.40, +0.40)
	20/63 (6/19, 0.32, +0.50)
	20/70 (6/21, 0.29, +0.54)
	20/80 (6/24, 0.25, +0.60)
	20/100 (6/30, 0.20, +0.70)
	20/125 (6/38, 0.16, +0.80)
	20/160 (6/48, 0.125, +0.90)
	20/200 (6/60, 0.10, +1.00)
	20/250 (6/75, 0.08, +1.10)
	20/320 (6/95, 0.06, +1.20)
	20/400 (6/120, 0.05, +1.30)
Number of Mis	sed Letters

□ -1

	-2
	-3
Number of Add	litional Letters Seen
	+1
	+2
	+3
[Section Prompt: Left I	Eye.]
[Technical Note: The v decimal, and in LogMA	alues represent the visual acuity scale in feet, with the corresponding values for meters, in AR in parentheses.]
	20/10 (6/3, 2.00, -0.30)
	20/12.5 (6/3.8, 1.60, -0.20)
	20/15 (6/4.5, 1.33, -0.12)
	20/16 (6/4.8, 1.25, -0.10)
	20/20 (6/6, 1.00, +0.00)
	20/25 (6/7.5, 0.80, +0.10)
	20/30 (6/9, 0.67, +0.18)
	20/32 (6/9.5, 0.63, +0.20)
	20/40 (6/12, 0.50, +0.30)
	20/50 (6/15, 0.40, +0.40)
	20/63 (6/19, 0.32, +0.50)
	20/70 (6/21, 0.29, +0.54)
	20/80 (6/24, 0.25, +0.60)
	20/100 (6/30, 0.20, +0.70)
	20/125 (6/38, 0.16, +0.80)
	20/160 (6/48, 0.125, +0.90)
	20/200 (6/60, 0.10, +1.00)
	20/250 (6/75, 0.08, +1.10)
	20/320 (6/95, 0.06, +1.20)
	20/400 (6/120, 0.05, +1.30)
Number of Mis	sed Letters
	-1

	-2
	-3
Number of Ado	litional Letters Seen
	+1
	+2
	+3
[Section Prompt: Both	Eyes.]
[Technical Note: The vector of the decimal, and in LogMann of the	values represent the visual acuity scale in feet, with the corresponding values for meters, in AR in parentheses.]
	20/10 (6/3, 2.00, -0.30)
	20/12.5 (6/3.8, 1.60, -0.20)
	20/15 (6/4.5, 1.33, -0.12)
	20/16 (6/4.8, 1.25, -0.10)
	20/20 (6/6, 1.00, +0.00)
	20/25 (6/7.5, 0.80, +0.10)
	20/30 (6/9, 0.67, +0.18)
	20/32 (6/9.5, 0.63, +0.20)
	20/40 (6/12, 0.50, +0.30)
	20/50 (6/15, 0.40, +0.40)
	20/63 (6/19, 0.32, +0.50)
	20/70 (6/21, 0.29, +0.54)
	20/80 (6/24, 0.25, +0.60)
	20/100 (6/30, 0.20, +0.70)
	20/125 (6/38, 0.16, +0.80)
	20/160 (6/48, 0.125, +0.90)
	20/200 (6/60, 0.10, +1.00)
	20/250 (6/75, 0.08, +1.10)
	20/320 (6/95, 0.06, +1.20)
	20/400 (6/120, 0.05, +1.30)
Number of Mis	sed Letters
	-1

□ -2			
□ -3			
Number of Additional Letters Seen			
□ +1			
$\Box$ +2			
$\Box$ +3			
[End Distance Visual Acuity with Refraction.]			
Section 2.11.3.2 Near Visual Acuity with Refraction			
[Begin Near Vision Acuity Refraction.]			
[Section Prompt: Near Visual Acuity with Refraction]			
[Technical Note: Snellen is default for the Visual Acuity Chart. The default chart distance is 16 inches. Both should be editable.]			
[Section Prompt: Snellen is default for the Visual Acuity Chart.]			
<obtain> Visual Acuity Chart</obtain>			
[Section Prompt: Indicate below if you wish to select a different visual acuity chart.]			
□ Jaeger			
□ LogMAR			
☐ M Notation			
□ Other			
<obtain> Chart Name</obtain>			
[Technical Note: Auto populate Chart Distance as 16 and preselect "Inches" as Distance Units. Allow user to edit.]			
<obtain> Chart Distance</obtain>			
[Section Prompt: Distance Units]			
☐ Centimeters			
□ Inches			
[Section Prompt: Right Eye.]			
[Technical Note: The values represent the equivalent distance visual acuity scale in feet, with the corresponding values in inches, centimeters, M notation, decimal, and LogMAR in parentheses.]			
□ 20/10 (16/8, 40/20, 0.20, 2.00, -)			
□ 20/12.5 (16/10, 40/25, 0.25, 1.60, -)			
□ 20/16 (16/12.8, 40/32, 0.32, 1.25, -)			
□ 20/20 (16/16, 40/40, 0.40, 1.00, 1)			

	20/25 (16/20, 40/50, 0.50, 0.80, 1)
	20/30 (16/23.8, 40/60, 0.60, 0.67, 2)
	20/32 (16/25.4, 40/63, 0.64, 0.63, 2)
	20/40 (16/32, 40/80, 0.80, 0.50, 5)
	20/50 (16/40, 40/100, 1.0, 0.40, 7)
	20/63 (16/50, 40/125, 1.3, 0.32, 4-7)
	20/80 (16/64, 40/160, 1.6, 0.25, 5-9)
	20/100 (16/80, 40/200, 2.0, 0.20, 8-12)
	20/125 (16/100, 40/250, 2.5, 0.16, 9-12)
	20/160 (16/128, 40/320, 3.2, 0.125, 10-15)
	20/200 (16/160, 40/400, 4.0, 0.10, 15-18)
Number of Mis	sed Letters
	-1
	-2
	-3
Number of Add	itional Letters Seen
	+1
	+2
	+3
[Section Prompt: Left I	
	te: The values represent the equivalent distance visual acuity scale in feet, with the values in inches, centimeters, M notation, decimal, and LogMAR in parentheses.]
	20/10 (16/8, 40/20, 0.20, 2.00, -)
	20/12.5 (16/10, 40/25, 0.25, 1.60, -)
	20/16 (16/12.8, 40/32, 0.32, 1.25, -)
	20/20 (16/16, 40/40, 0.40, 1.00, 1)
	20/25 (16/20, 40/50, 0.50, 0.80, 1)
	20/30 (16/23.8, 40/60, 0.60, 0.67, 2)
	20/32 (16/25.4, 40/63, 0.64, 0.63, 2)
	20/40 (16/32, 40/80, 0.80, 0.50, 5)
	20/50 (16/40, 40/100, 1.0, 0.40, 7)

	20/63 (16/50, 40/125, 1.3, 0.32, 4-7)
	20/80 (16/64, 40/160, 1.6, 0.25, 5-9)
	20/100 (16/80, 40/200, 2.0, 0.20, 8-12)
	20/125 (16/100, 40/250, 2.5, 0.16, 9-12)
	20/160 (16/128, 40/320, 3.2, 0.125, 10-15)
	20/200 (16/160, 40/400, 4.0, 0.10, 15-18)
Number of Mis	sed Letters
	-1
	-2
	-3
Number of Add	litional Letters Seen
	+1
	+2
	+3
[Section Prompt: Both	
	te: The values represent the equivalent distance visual acuity scale in feet, with the values in inches, centimeters, M notation, decimal, and LogMAR in parentheses.]
	20/10 (16/8, 40/20, 0.20, 2.00, -)
	20/12.5 (16/10, 40/25, 0.25, 1.60, -)
	20/16 (16/12.8, 40/32, 0.32, 1.25, -)
	20/20 (16/16, 40/40, 0.40, 1.00, 1)
	20/25 (16/20, 40/50, 0.50, 0.80, 1)
	20/30 (16/23.8, 40/60, 0.60, 0.67, 2)
	20/32 (16/25.4, 40/63, 0.64, 0.63, 2)
	20/40 (16/32, 40/80, 0.80, 0.50, 5)
	20/50 (16/40, 40/100, 1.0, 0.40, 7)
	20/63 (16/50, 40/125, 1.3, 0.32, 4-7)
	20/80 (16/64, 40/160, 1.6, 0.25, 5-9)
	20/100 (16/80, 40/200, 2.0, 0.20, 8-12)
	20/125 (16/100, 40/250, 2.5, 0.16, 9-12)
	20/160 (16/128, 40/320, 3.2, 0.125, 10-15)

$\square \qquad 20/200 \ (16/160, 40/400, 4.0, 0.10, 15-18)$		
Number of Missed Letters		
□ -1		
□ -2		
□ -3		
Number of Additional Letters Seen		
□ +1		
□ +2		
□ +3		
[Section Prompt: New Refraction?]		
□ Yes		
□ No		
<obtain> Refraction Testing Notes</obtain>		
[End Near Vision Acuity Refraction.]		
Section 2.11.4 Intraocular Pressure Meas	urement	
[Begin Intraocular Pressure Measurement.]		
[Section Prompt: Intraocular Pressure]		
[Technical Note: Provide link to Intraocular Pressure History and to display of intraocular pressure over time in relationship to target intraocular pressure for returning patients.]		
[Technical Note: Link to Intraocular Pressure History]		
[Technical Note: Allow user to repeat Intraocular Pressure Measurement needed by selecting Yes for Additional Intraocular Pressure Measurement Note: Measurement Note: Allow user to repeat Intraocular Pressure Measurement		
<pre><obtain> Right Eye (mm Hg)</obtain></pre>		
<obtain> Date and Time Obtained</obtain>		
<pre><obtain> Left Eye (mm Hg)</obtain></pre>		
<obtain> Date and Time Obtained</obtain>		
[Technical Note: Allow user to set default Intraocular Pressure Measurement Method so that it is preselected whenever the form is used.]		
[Section Prompt: Intraocular Pressure Measurement Method]		
☐ Goldman Applanation Tonometer		
☐ Tono-Pen		
□ Noncontact Tonometry		
☐ Icare Tonometer		
☐ Other		

	<obtain> Intrac</obtain>	cular Pressure Measurement Method
[Section	Prompt: Dilati	on Before Intraocular Pressure Measurement?]
	Yes	
	No	
[Section	Prompt: Addit	ional Intraocular Pressure Measurement?]
	Yes	
	No	
<obtain< td=""><td>&gt; Intraocular Pr</td><td>ressure Measurement Notes</td></obtain<>	> Intraocular Pr	ressure Measurement Notes
[End In	traocular Pressu	re Measurement.]
Secti	ion 2.11.5	External Eye Exam
[Begin ]	External Eye Ex	xam.]
[Section	Prompt: Exter	nal Eye Exam.]
	Unremarkabl	e
[Section	Prompt: Findi	ngs]
	<obtain> Desc</obtain>	cription both eyes
	<obtain> Desc</obtain>	cription right eye
	<obtain> Desc</obtain>	cription left eye
[Section	Prompt: Pupil	Exam.]
	Normal (Equ	al, Round, Reactive to Light, No Afferent Pupillary Defect)
	<obtain> Descr</obtain>	iption
	Relative Affe	erent Pupillary Defect (RAPD)
		Right Eye
		<obtain> Description</obtain>
		Left Eye
		<obtain> Description</obtain>
	Other Pupil A	Abnormality
	<obtain> Des</obtain>	scription
[Section	Prompt: Motil	ity]
	Normal Extraocular Movements Both Eyes	
[Se	ction Prompt: F	findings]
	[Technical Note 3 is selected.]	e: Please do not display anything but "both eyes", "right eye", and "left eye" until one of these

☐Both Eyes:	
	Esophoria
	<obtain> details</obtain>
	Exophoria
	<obtain> details</obtain>
	Esotropia
	<obtain> details</obtain>
	Exotropia
	<obtain> details</obtain>
	Hyperphoria
	<obtain> details</obtain>
	Hypertropia
	<obtain> details</obtain>
	Hypophoria
	<obtain> details</obtain>
	Hypotropia
	<obtain> details</obtain>
	Intermittent Esotropia
	<obtain> details</obtain>
	Intermittent Esotropia, Mainly Latent
	<obtain> details</obtain>
	Intermittent Esotropia, Mainly Manifest
	<obtain> details</obtain>
	Intermittent Exotropia
	<obtain> details</obtain>
	Intermittent Exotropia, Mainly Latent
	<obtain> details</obtain>
	Intermittent Exotropia, Mainly Manifest
	<obtain> details</obtain>

□Right Eye	
	Esophoria
	<obtain> details</obtain>
	Exophoria
	<obtain> details</obtain>
	Esotropia
	<obtain> details</obtain>
	Exotropia
	<obtain> details</obtain>
	Hyperphoria
	<obtain> details</obtain>
	Hypertropia
	<obtain> details</obtain>
	Hypophoria
	<obtain> details</obtain>
	Hypotropia
	<obtain> details</obtain>
	Intermittent Esotropia
	<obtain> details</obtain>
	Intermittent Esotropia, Mainly Latent
	<obtain> details</obtain>
	Intermittent Esotropia, Mainly Manifest
	<obtain> details</obtain>
	Intermittent Exotropia
	<obtain> details</obtain>
	Intermittent Exotropia, Mainly Latent
	<obtain> details</obtain>
	Intermittent Exotropia, Mainly Manifest
	<obtain> details</obtain>
□Left Eye	

	Esophoria
	<obtain> details</obtain>
	Exophoria
	<obtain> details</obtain>
	Esotropia
	<obtain> details</obtain>
	Exotropia
	<obtain> details</obtain>
	Hyperphoria
	<obtain> details</obtain>
	Hypertropia
	<obtain> details</obtain>
	Hypophoria
	<obtain> details</obtain>
	Hypotropia
	<obtain> details</obtain>
	Intermittent Esotropia
	<obtain> details</obtain>
	Intermittent Esotropia, Mainly Latent
	<obtain> details</obtain>
	Intermittent Esotropia, Mainly Manifest
	<obtain> details</obtain>
	Intermittent Exotropia
	<obtain> details</obtain>
	Intermittent Exotropia, Mainly Latent
	<obtain> details</obtain>
	Intermittent Exotropia, Mainly Manifest
	<obtain> details</obtain>
<obar con<="" constant="" de="" la="" large="" td=""><td></td></obar>	
	o Motility and Alignment Document Tool-See Appendix A.]
[End External Eye Exam.]	

## Section 2.11.6. - Slit Lamp Exam

[Begin Slit Lamp.] [Section Prompt: Slit Lamp Exam] [Technical Note: Provide link to Silt Lamp Exam History for returning patients.] [Clinical Comment: Future Implementation goal to provide a list of potential descriptors which can be linked to ICD codes.] [Technical Note: Link to Silt Lamp Exam History.] [Section Prompt: Dilation for Silt Lamp Examination?] Yes No [Section Prompt: Right Eye.] Lids and Lashes Unremarkable Findings <obtain> Description Conjunctiva Unremarkable Findings <obtain> Description Cornea Unremarkable Findings <obtain> Description **Anterior Chamber** Unremarkable Findings <obtain> Description Iris/Ciliary Body/Pupil Unremarkable Findings <obtain> Description Lens Unremarkable

	Findings
	<obtain> Description</obtain>
Anterior Vitreous	
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prompt: Left B	Eye.]
Lids and Lashes	
	Unremarkable
	Findings
	<obtain> Description</obtain>
Conjunctiva	
	Unremarkable
	Findings
	<obtain> Description</obtain>
Cornea	
	Unremarkable
	Findings
	<obtain> Description</obtain>
Anterior Chamber	
	Unremarkable
	Findings
	<obtain> Description</obtain>
Iris/Ciliary Body/Pu	ıpil
	Unremarkable
	Findings
	<obtain> Description</obtain>
Lens	
	Unremarkable
	Findings
	<obtain> Description</obtain>
Anterior Vitreous	

	Unremarkable
	Findings
	<obtain> Description</obtain>
<obtain> Additional De</obtain>	etails
_	findings are indicated, provide links to illustrations of external eyes, cornea, lens, anterior nerves, gonioscopy, and retinas for drawing findings.]
[Technical Note: Link t	to Printable Illustration of External Eyes]
[Technical Note: Link t	to Printable Illustration of Cornea]
[Technical Note: Link t	to Printable Illustration of Lens]
[Technical Note: Link t	to Printable Illustration of Anterior Segment]
[Technical Note: Link t	o Printable Illustration of Retinas]
[Technical Note: Link t	o Printable Illustration of Macula]
[Technical Note: Link t	to Printable Illustration of Optic Nerves]
[Technical Note: Link t	o Printable Illustration of Gonioscopy]
[End Slit Lamp.]	
<b>Section 2.11.7</b>	Fundoscopic Exam
[Begin Fundoscopic Ex	am.]
[Technical Note: Provident	de link to Fundoscopic Exam History for returning patients.]
[Technical Note: Link t	to Fundoscopic Exam History]
[Section Prompt: Dilati	on for Fundoscopic Examination?]
□ Yes	
□ No	
[Section Prompt: Right	Eye.]
[Section Prom	pt: Vitreous]
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prom	pt: Optic Nerve]
	Unremarkable
	Findings
	<obtain> Description</obtain>
	<obtain> Cup-to-Disc Ratio</obtain>
	[Technical Note: Range 0.0 to 1.0 to 2 decimal points (probably a drop-down list).]
	<obtain> Cup/Disc Details</obtain>

[Section Prom	pt: Macula]
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prom	pt: Vessels]
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prom	pt: Periphery]
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prompt: Left I	Eye.]
[Section Prom	pt: Vitreous]
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prom	pt: Optic Nerve]
	Unremarkable
	Findings
	<obtain> Description</obtain>
	<obtain> Cup-to-Disc Ratio</obtain>
	[Technical Note: Range 0.0 to 1.0 to 2 decimal points (probably a drop-down list).]
	<obtain> Cup/Disc Details</obtain>
[Section Prom	pt: Macula]
	Unremarkable
	Findings
	<obtain> Description</obtain>
[Section Prom	pt: Vessels]
	Unremarkable
	Findings

		<obtain> Description</obtain>
	[Section Prom	pt: Periphery]
		Unremarkable
		Findings
		<obtain> Description</obtain>
<obtain></obtain>	Additional De	etails
	al Note: If any ng findings.]	abnormal findings are indicated, provide link to illustration of retinas, macula, or optic nervo
[Technic	al Note: Link t	o Printable Illustration of Retinas]
[Technic	al Note: Link t	o Printable Illustration of Macula]
[Technic	al Note: Link t	o Printable Illustration of Optic Nerves]
[End Fun	doscopic Exa	n.]
[End Oct	ılar Exam.]	
Sect	ion 2.1	2 - Special Testing
	pecial Testing.	
		should be captured automatically and presented to the user for all tests in the Special Testing
[Section	Prompt: Speci	ial Testing.]
[Section	Selection Beha	avior: One or more. Optional]
	Color Vision 7	Testing
	Stereo Vision	Testing
	Amsler Grid T	esting
	A-Scan Ultras	ound
	Anterior Segm	nent Optical Coherence Tomography
	B-Scan Ultras	ound
	Confrontation	Visual Field Testing
	Corneal Topog	graphy/Tomography
	Gonioscopy	
	Intraocular Le	ns (IOL) Calculations
	Keratometry	
	Optic Nerve A	analysis
	Pachymetry	
	Perimetry	
	Retinal Imagir	ng

[Technical Note: Activate subsections below when any of the "Special Testing" checkboxes are selected.]

## Section 2.12.1. - Color Vision Testing

[Begin C	olor Vision Testing.]
[Section	Prompt: Color Vision Testing]
[Section	Prompt: Color Vision Testing Method?]
	Ishihara
	Hardy-Rand-Rittler
	Farnsworth D-15
	Other
<	obtain> Description
[Section	Prompt: Right Eye Color Vision Findings?]
	Normal
	Abnormal
<	obtain> Description
[Section	Prompt: Left Eye Color Vision Findings?]
	Normal
	Abnormal
<	obtain> Description
[End Co	or Vision Testing.]
Secti	on 2.12.2 Stereo Vision Testing
[Begin S	ereo Vision Testing.]
[Section	Prompt: Stereo Vision Testing]
[Section	Prompt: Stereo Vision Testing Method]
	Titmus Fly Stereo Test
	☐ Stereo Wings
	□ Yes
	□ No
	<obtain> Number of Items Correctly Identified in Animal Test (of 3)</obtain>
	<obtain> Number of Items Correctly Identified in Circles Test (of 9)</obtain>
	Randot Stereo Test
	☐ Gross Stereopsis Evaluation
	□ 500 Seconds
	□ 200 Seconds

		Absent
Graded C	ircle '	Γest
		400 Seconds
		200 Seconds
		140 Seconds
		100 Seconds
		70 Seconds
		50 Seconds
		40 Seconds
		30 Seconds
		25 Seconds
		20 Seconds
		Absent
Animal T	est	
		400 Seconds
		200 Seconds
		100 Seconds
		Absent
Other		
<obtain></obtain>	Test l	Name
	<ob< td=""><td>tain&gt; Test Results</td></ob<>	tain> Test Results

<obtain> Stereo Vision Testing Notes
[End Stereo Vision Testing.]

## Section 2.12.3. - Amsler Grid Testing

[Begin Amsler Grid Testing.]

[Section Prompt: Amsler Grid Testing]

[Technical Note: Provide link to Amsler Grid History for returning patients.]

[Technical Note: Link to Prior Amsler Grid History]

[Technical Note: If Amsler Grid Testing is selected, provide the ability to draw on an electronic grid and a link to printable Amsler Grid images for illustrating findings or using as a patient handout for monitoring.]

[Technical Note: Link to Printable Amsler Grids.]

[Technical Note: Link to Electronic Amsler Grid.]

[Section Prompt: Right Eye Findings.]

		Normal
		Abnormal
		<obtain> Description</obtain>
[Section	Prom	pt: Left Eye Findings]
		Normal
		Abnormal
		<obtain> Description</obtain>

[End Amsler Grid Testing.]

## Section 2.12.4. - A-Scan Ultrasound

[Begin A-Scan Ultrasound.]

[Section Prompt: A-Scan Ultrasound]

[Technical Note: Provide link to A-Scan Ultrasound History for returning patients.]

[Technical Note: Link to A-Scan Ultrasound History]

[Technical Note: Allow importation of A-Scan Ultrasound results.]

[Section Prompt: Right Eye Findings.]
[Section Prompt: Technique?]

 $\Box$ Contact

□Immersion

<obtain> Axial Length (Millimeters)

<obtain> Anterior Chamber Depth (Millimeters)

<obtain> Lens Thickness (Millimeters)

<obtain> Vitreous Depth (Millimeters)

[Section Prompt: Left Eye Findings.] [Section Prompt: Technique?]

□ Contact

□Immersion

<obtain> Axial Length (Millimeters)

<obtain> Anterior Chamber Depth (Millimeters)

<obtain> Lens Thickness (Millimeters)

<obtain> Vitreous Depth (Millimeters)

<obtain> A-Scan Ultrasound Notes

[End A-Scan Ultrasound.]

## Section 2.12.5. - Optical Biometry

```
[Begin Optical Biometry.]
[Section Prompt: Optical Biometry]
[Technical Note: Provide link to Optical Biometry History for returning patients.]
[Technical Note: Link to Optical Biometry History.]
[Technical Note: Allow importation of Optical Biometry results.]
[Section Prompt: Right Eye Findings.]
      <obtain> Axial Length (Millimeters)
      <obtain> Anterior Chamber Depth (Millimeters)
      <obtain> Keratometric Value Median (diopters)
      <obtain> Keratometric Value Mean +/- SD (diopters)
[Section Prompt: Left Eye Findings.]
      <obtain> Axial Length (Millimeters)
      <obtain> Anterior Chamber Depth (Millimeters)
      <obtain> Keratometric Value Median (diopters)
      <obtain> Keratometric Value Mean +/- SD (diopters)
<obtain> Optical Biometry Notes
[End Optical Biometry.]
Section 2.12.6. - Anterior Segment Optical Coherence Tomography
(OCT)
[Begin Anterior Segment Optical Coherence Tomography.]
[Section Prompt: Anterior Segment OCT
[Technical Note: Provide link to Anterior Segment Optical Coherence Tomography History for returning patients.]
[Technical Note: Link to Anterior Segment Optical Coherence Tomography History]
[Technical Note: Allow importation of Anterior Segment Optical Coherence Tomography results.]
[Section Prompt: Right Eye Findings.]
        <obtain> Anterior Chamber Depth (Millimeters)
[Section Prompt: Left Eye Findings.]
        <obtain> Anterior Chamber Depth (Millimeters)
<obtain> Anterior Segment Optical Coherence Tomography Notes
[End Anterior Segment Optical Coherence Tomography.]
Section 2.12.7. - B-Scan Ultrasound
```

[Begin B-Scan Ultrasound.]

[Section Prompt: B-Scan Ultrasound]

[Technical Note: Provide link to B-Scan Ultrasound History for returning patients.]

[Technical Note: Link to B-Scan Ultrasound History]

<obtain> Right Eye Findings

<obtain> Left Eye Findings

[Allow importation of B-Scan Ultrasound images.]

<obtain> B-Scan Ultrasound Notes

[End B-Scan Ultrasound.]

## Section 2.12.8. - Confrontation Visual Field Testing

[Technical Note: If Other is selected for either side, provide link to illustration for drawing visual field findings; allow importation of drawings. If possible, provide links to electronic illustrations upon which the user can draw findings.]

[Technical Note: Link to Electronic Visual Field Illustrations]

<obtain> Description

[Technical Note: Link to Upload Drawings] [End Confrontation Visual Field Testing.]

## Section 2.12.9. - Corneal Topography/Tomography

[Begin Corneal Topography/Tomography.]

[Technical Note: Provide link to Corneal Topography/Tomography History for returning patients.]

[Technical Note: Link to Corneal Topography/Tomography History]

<obtain> Topography/Tomography Device

[Technical Note: Allow user to set default Topography/Tomography Device so that the field can be prefilled. Allow editing of the prefilled field.]

<obtain> Right Eye Findings

<obtain> Left Eye Findings

[Technical Note: Allow user to import images and reports from corneal topography/tomography devices.]

[Technical Note: Link to Import Results from Device]

## Section 2.12.10. - Gonioscopy

Begin	Gonioscopy.]	
Techn	ical Note: Provid	de link to Gonioscopy History for returning patients.]
Techn	ical Note: Link t	o Gonioscopy History]
Section	n Prompt: Gonic	oscopy Lens.]
	Zeiss	
	Goldmann	
	Sussman	
	Posner	
	Other	
<	obtain> Descri	otion
Techn	ical Note: Allow	user to import Gonioscopy drawings.]
		de the ability to draw on an electronic illustration of gonioscopy and a link to printable py for illustrating findings or using as a patient handout for monitoring.]
Techn	ical Note: Link t	o Printable Illustration of Gonioscopy]
Techn	ical Note: Link t	o Electronic Illustration of Gonioscopy]
[Techn	ical Note: Link	to Import Gonioscopy Drawings.]
[Se	ection Prompt: R	light Eye]
	[Section Pron	npt: General Findings.]
	□ Open	
	<obtain></obtain>	Description
	☐ Occlu	ıdable
	<obtain></obtain>	Description
	□ Reces	ssed
	<obtain></obtain>	Description
	□ Close	ed .
	<obtain></obtain>	Description
	<obtain> Add</obtain>	tional Findings
		pt: Posterior Structure Visible.]
		Schwalbe Line
		Trabecular Meshwork

	Scleral Spur
	Ciliary Body
[Section Prom	pt: Pigment Rating.]
	+1
	+2
	+3
	+4
[Section Pron	npt: Classification.]
	te: Please provide a link in the bibliography to American Academy of Ophthalmology nese classification systems: <a href="http://eyewiki.aao.org/Gonioscopy">http://eyewiki.aao.org/Gonioscopy</a> .]
[Technical No	te: Allow user to set a default classification scheme.]
	Schele Grade

#### Scheie

The Scheie system is based upon visibility of the anatomical structures of the angle. They are graded Wide through IV, with Wide being the most open. See Table 1 for an in depth description of the Scheie system.

Table 1. The Scheie Classification System

Grade	Visibility	Interpretation	
Wide	Wide	Open, all structures visible	
1	Slightly Narrowed	Ciliary body visible, but recess obscured by the last roll of the iris	
II	Apex not visible Ciliary body not visible		
III	Posterior half of trabecular meshwork not visible	ible Ciliary body, scleral spur, and posterior half of the trabecular meshwork not visible	
IV	None of the angle structures visible	Cliary body, scleral spur, and trabecular meshwok not visible	

ne angle s	structures visible	Cliary body, scleral spur, and trabecular meshwok not visible
		Grade Wide; Visibility=Wide; Interpretation=Open, all structures visible
		Grade I; Visibility=Slightly Narrowed; Interpretation=Ciliary body visible, but recess obscured by the last roll of the iris
		Grade II; Visibility=Apex not visible; Interpretation=Ciliary body not visible
		Grade III; Visibility=Posterior half of trabecular meshwork not visible; Interpretation=Ciliary body, scleral spur, and posterior half of the trabecular meshwork not visible
		Grade IV; Visibility=None of the angle structures visible; Interpretation=Ciliary body, scleral spur, and trabecular meshwork not visible
	Shaffer Grade	

#### Shaffer

The Shaffer system is based on angularity. It also uses a number system, but is in reverse of the Scheie system. For example, a Grade 4 angle in the Shaffer system is wide open, while a Grade IV in the Scheie system is anatomically closed with no structures visible! See Table 2 for detailed description of the the Shaffer classification system.

Table 2. The Shaffer Classification System

Angular Grade	Width (in degrees)	Grade	Clinical Interpretation	
	45-35	4	Angle closure impossible in both Grades 3	
Wide Open Angle	35-20	3	and 4	
Narrow Angle	20	2	Angle closure possible	
Narrow Angle, extreme	10 or less	1	Angle closure probable, eventually	
Narrow Angle, slit	Critically narrowed angle, quite possibly against the trabecular meshwork beyond Schwalbe's line	-	-	
Narrow angle, partial or complete closure	0	0	Angle closed in part or all of circumference	

		Grade 4-Wide Open Angle; Width=45-35 degrees
		Grade 3-Wide Open Angle; Width=35-20 degrees
		Grade 2-Narrow Angle; Width=20 degrees
		Grade 1- Narrow Angle, extreme; Width=10 degrees or less
		Narrow Angle, slit; Critically narrowed angle, quite possibly against the trabecular meshwork beyond Schwalbe's line.
		Grade 0-Narrow Angle, partial or complete closure
$\Box$ S	paeth System	

#### Spaeth

The Spaeth system is much more complex and describes each detail of the anatomic angle. This system describes the iris insertion, angularity, configuration, and pigmentation of the posterior trabecular meshwork. We will illustrate this detailed description below.

#### Iris Insertion

Designated by letter A-E. A is anterior to Schwalbe's line, B is between Schwalbe's and the scleral spur, C is at the scleral spur, D is deep, E is extremely deep.

#### Iris Angularity

The angle of the iris is defined as the angle between two lines. The first line is parallel to the trabecular meshwork and the second a tangent to the anterior iris surface approximately 1/3 of the distance from the most peripheral portion of the iris. It is usually noted between 10 and 40 degrees.

#### Iris Configuration

This is named for the configuration or shape of the iris as it runs from the papillary margin to the insertion. S is for steep, B for bowing anteriorly, P for plateau, R or F for regular or flat, respectively, and C for concave posteriorly.

#### Pigmentation

This is graded on a 0 to 4 scale noting the amount of pigmentation in the posterior trabecular meshwork.

The Spaeth system also takes into account dynamic or compressive gonioscopy. If a letter is in parentheses, this means it is the originally viewed insertion prior to compression. It is then followed by a letter without parentheses, which denotes the insertion after compression. An example is (B)D30P1. This is an angle that is thought to have an iris insertion between Schwalbe's line and the scleral spur. After compression, it is noted that the insertion is deep, with an angle of 30 degrees and a plateau configuration with grade 1 pigmentation of the trabecular meshwork.

Iris Insertion	
	A (Insertion Anterior to Schwalbe Line)
	B (Insertion between Schwalbe's Line and Scleral Spur)
	C (Insertion at Scleral Spur)

		D (Deep Insertion)
		E (Extremely Deep Insertion)
		<obtain> Iris Angularity (Degrees)</obtain>
I	ris Angularity	(10-40 Degrees)
	<obtai< td=""><td>n&gt; Degrees</td></obtai<>	n> Degrees
I	ris Configurati	on
		S (Steep)
		B (Anterior Bowing)
		P (Plateau)
		R (Regular)
		F (Flat)
		C (Posteriorly Concave)
		<pre><obtain> Pigmentation Grade (0 to 4)</obtain></pre>
I	Pigmentation	
<	<obtain> Pigmo</obtain>	entation Grade
[	Technical Not	e: Scale choices 0, 1+, 2+, 3+, 4+)
Left Eye		
[Section Pro	ompt: Right Ey	e General Findings.]
	Open	
<obtai< td=""><td>n&gt; Description</td><td>1</td></obtai<>	n> Description	1
	Occludable	
<obtai< td=""><td>n&gt; Description</td><td>ı</td></obtai<>	n> Description	ı
	Recessed	
<obtai< td=""><td>n&gt; Description</td><td>ı</td></obtai<>	n> Description	ı
	Closed	
<obtain< td=""><td>&gt; Description</td><td></td></obtain<>	> Description	
<obtain> Addition</obtain>	onal Findings	
[Section Prompt	: Posterior Stru	icture.]

I		Schwalbe Line					
I		Trabecular Meshwork					
Ī		Scleral Spur					
Ī		Ciliary Body					
[Section Pr	romp	ot: Pigment Ratir	ng.]				
I		+1					
[		+2					
I		+3					
ſ		+4					
ta b		CI 'C' '	1				
		pt: Classification	set a default classification scheme.]				
		Scheie Grade	set a detault etassification seneme.				
	ш		Wide (Open Angle: All Structures Visible)				
			Wide (Open Angle; All Structures Visible)				
		_	I (Slightly Narrowed Angle; Ciliary Body Visible, Recess Obscured)				
			II (Angle Apex Not Visible; Ciliary Body Not Visible)				
			III (Ciliary Body, Scleral Spur, and Posterior Aspect of Trabecular Meshwork Not Visible)				
			IV (No Visible Angle Structures)				
[		Shaffer Grade					
			4 (Wide, Open Angle of 35 to 40 Degrees)				
			3 (Wide, Open Angle of 20 to 35 Degrees)				
			2 (Narrowed Angle of 20 Degrees)				
			1 (Extremely Narrowed Angle of 10 Degrees or Less)				
			0 (Critically Narrowed Angle with Closure in All or Part of Circumference)				
I		Spaeth System					
		Iris Insertion					
			A (Insertion Anterior to Schwalbe Line)				
			B (Insertion between Schwalbe Line and Scleral Spur)				
			C (Insertion at Scleral Spur)				

		D (Deep Insertion)
		E (Extremely Deep Insertion)
		<obtain> Iris Angularity (Degrees)</obtain>
	Iris Angularity	(10-40 Degrees)
	<obta< th=""><th>in&gt; Degrees</th></obta<>	in> Degrees
	Iris Configurat	ion
		S (Steep)
		B (Anterior Bowing)
		P (Plateau)
		F (Flat)
		C (Posteriorly Concave)
		<obtain> Pigmentation Grade (0 to 4)</obtain>
	Pigmentation	
	<obtain> Pigm</obtain>	nentation Grade
	[Technical No	te: Scale choices 0, 1+, 2+, 3+, 4+)
		Gonioscopy Section by selecting "Yes" for Additional Gonioscopy.]
[Section	Prompt: Additional Gonioscop	y?]
	Yes	
	No	
	Gonioscopy Notes nioscopy.]	
		cular Lens (IOL) Calculations
	OL Calculations.]  Prompt: IOL Calculation meth	odl
_	•	ouj
	Holladay I	
	Holladay II	
	Hoffer Q	
Ш	Haigis	

```
□ SRK/T
    Olsen
    Barrett II
    Other
       <obtain> Description
[Section Prompt: Right Eye Findings.]
[Technical Note; This needs to be presented as a table for each lens model, with a range of lens powers and
associated predicted postoperative refractive error for each lens power.]
[Technical Notes: Users need to be able to define multiple preferred default settings for IOL calculation method and
lens model].
        <obtain>Lens Model
        <obtain>Lens Power
        <obtain> Predicted Postoperative Refractive Error
[Section Prompt: Left Eye Findings.]
        <obtain>Lens Model
        <obtain>Lens Power
        <obtain> Predicted Postoperative Refractive Error
[End IOL Calculations.]
Section 2.12.12. - Keratometry
[Begin Keratometry.]
[Technical Note: Provide link to Keratometry History for returning patients.]
        [Technical Note: Link to Keratometry History]
[Technical Note: Allow user to import images and reports from Keratometry devices.]
[Technical Note: Allow user to repeat Keratometry section from here down as many times as needed by selecting
Yes for Additional Keratometry below.]
[Section Prompt: Keratometry]
[Section Prompt: Right Eye]
        <obtain> Keratometry 1 (Diopters)
        <obtain> Keratometry 1 (Millimeters)
        <obtain> Keratometry 2 (Diopters)
        <obtain> Keratometry 2 (Millimeters)
        <obtain> Axis (Degrees)
[Section Prompt: Left Eye]
        <obtain> Keratometry 1 (Diopters)
        <obtain> Keratometry 1 (Millimeters)
```

```
<obtain> Keratometry 2 (Diopters)
        <obtain> Keratometry 2 (Millimeters
[Allow user to repeat Keratometry Section by selecting Yes for Additional Keratometry.]
[Section Prompt: Additional Keratometry?]
    Yes
<obtain> Keratometry Notes
[End Keratometry.]
Section 2.12.13. - Optic Nerve Analysis
[Begin Optic Nerve Analysis.]
[Technical Note: Provide link to Optic Nerve Analysis History for returning patients.]
[Technical Note: Link to Optic Nerve Analysis History]
[Technical Note: Allow importation of results from Optic Nerve Analysis.]
[Section Prompt: Type of Optic Nerve Analysis]
    ☐ Heidelberg Retinal Tomography
    ☐ GDx Nerve Fiber Analysis
    Optical Coherence Tomography
[Section Prompt: Right Eye.]
    [Section Prompt: Retinal Nerve Fiber Layer Thickness
       <obtain> Inferior (Microns)
       <obtain> Superior (Microns)
       <obtain> Nasal (Microns)
       <obtain> Temporal (Microns)
       <obtain> Average Peripapillary Thickness (Microns)
       <obtain> Additional Details
[Section Prompt: Left Eye.]
    [Section Prompt: Retinal Nerve Fiber Layer Thickness
       <obtain> Inferior (Microns)
       <obtain> Superior (Microns)
       <obtain> Nasal (Microns)
       <obtain> Temporal (Microns)
       <obtain> Average Peripapillary Thickness (Microns)
       <obtain> Additional Details
<obtain> Retinal Nerve Fiber Layer Symmetry
<obtain> Optic Nerve Analysis Notes
```

[End Optic Nerve Analysis.]

## Section 2.12.14. - Pachymetry

[Begin Pachymetry.] [Technical Note: Provide link to Pachymetry History for returning patients.] [Technical Note: Link to Pachymetry History] [Section Prompt: Pachymetry Findings.] <obtain> Right Corneal Thickness (Micrometers) <obtain> Left Corneal Thickness (Micrometers) <obtain> Pachymetry Notes [End Pachymetry.] Section 2.12.15. - Perimetry [Begin Perimetry.] [Technical Note: Provide link to Perimetry History for returning patients.] [Technical Note: Link to Perimetry History] [Section Prompt: Perimetry] [Section Prompt: Right Eye.] [Section Prompt: Machine Used.] Humphrey Octopus Goldmann Other <obtain> Description [Section Prompt: Testing Strategy.] 10-2 24-2 30-2 SITA Standard SITA Fast Other <obtain> Description [Section Prompt: Reliability.] Good Fair Poor

<obtain:< th=""><th>&gt; Description</th></obtain:<>	> Description
<obtain> Pupi</obtain>	l Size (Millimeters)
[Section	Prompt: Findings.]
	Unremarkable
	Abnormal Findings
	<obtain> Description</obtain>
	Note: Allow importation of images.]
	Note: Link to Import Images.]
[Section Prompt:	Left Eye.] ompt: Machine Used.]
_	_
	Humphrey
Ц	Octopus
	Goldmann
	Other
	<obtain> Description</obtain>
[Section	Prompt: Testing Strategy.]
	10-2
	24-2
	30-2
	SITA Standard
	SITA Fast
	Other
	<obtain> Description</obtain>
[Section	Prompt: Reliability.]
	Good
	Fair
	Poor
<obtain< td=""><td>&gt; Description</td></obtain<>	> Description
<obtain> Pupi</obtain>	l Size (Millimeters)
[Section	Prompt: Findings.]
	Unremarkable
	Abnormal Findings

	<obtain> Description</obtain>				
[Technical Note: Allow importation of images.]					
[Technical Note: Link to Import Images.]					
[End Per	rimetry.]				
Secti	on 2.12.16 Retinal Imaging				
[Begin F	Retinal Imaging.]				
[Technic	cal Note: Provide link to Retinal Imaging History for returning patients.]				
[Technic	cal Note: If Retinal Imaging selected, allow importation of images and results.] <obtain> Device Name</obtain>				
[Technic	cal Note: Allow user to set a default device name. Prefill "Device Name" with default name and allow edits.]				
[Section	Prompt: Type of Imaging.]				
	Retinal Photography				
	Fluorescein Angiography				
	Tomography				
	Other Retinal Imaging				
<obtain></obtain>	> Additional Details				
[End Re	tinal Imaging.]				
[End Sp	ecial Testing.]				
Sect	tion 2.13 - Procedure Notes				
[Begin F	Procedure Notes.]				
[Section	Prompt: Procedures]				
<obtain></obtain>	> Name of Procedure				
<obtain></obtain>	> Procedure CPT Code				
<obtain></obtain>	> Diagnosis				
	Right Eye				
	Left Eye				
	Both Eyes				
[Section	Prompt: Document the "Time-Out" process per policy.]				
	Correct Patient (Two Patient Identifiers)				
	Correct Procedure				
	Correct Site				
	Procedure Confirmed with Patient				
	Site Marked				

## Section 2.14 - Assessment and Plan

[Begin Assessment and Plan.]

#### Section 2.14.1. - Assessment

[Begin Assessment.]

[Technical Note: For returning patients, propose assessment entries from the most recent Eye Care KNART Assessment section for selection. For all users, propose items for confirmation based on entries in the Past Ocular History and findings from the Ocular Exam and Special Testing sections of this documentation template. Allow user to edit and comment on items. Also allow user to insert as many free text boxes as needed. For patients with glaucoma, include editable entries for target intraocular pressures as seen in the Past Ocular History.]

[Technical Note: Each entry in the assessment pulls up the plan so that the user can document the part of the plan that is relevant to that entry.]

[End Assessment.]

#### Section 2.14.2. - Plan

[Begin Plan.]

[Clinical Comment: Future development of the Eye Care Order Set KNART will result in the order set being activated from the plan section of the documentation template.]

### Section 2.14.2.1. - Vision Correction Prescription Glasses

[Begin Vision Correction Prescription Glasses.]

[Technical Note: Populate fields with results from Refraction section of Ocular Exam above. Allow user to edit fields.]

```
[Section Prompt: Prescription for glasses- Right Eye.]
<obtain> Sphere (Diopters)
<obtain> Cylinder (Diopters)
```

```
<obtain> Axis (Degrees)
        <obtain> Add Power # 1 (Diopters)
        <obtain> Add Power # 2 (Diopters)
        <obtain> Prism Power (Diopters)
        Prism Base
                 Up
                 □ Down
                 In
                 Out
[Section Prompt: Prescription for glasses- Left Eye
        <obtain> Sphere (Diopters)
        <obtain> Cylinder (Diopters)
        <obtain> Axis (Degrees)
        <obtain> Add Power # 1 (Diopters)
        <obtain> Add Power # 2 (Diopters)
        <obtain> Prism Power (Diopters)
        Prism Base
                     Up
                 Down
                 In
                 Out
<obtain> Additional Information
[Technical Note: Make Glasses Prescription section exportable.]
[End Vision Correction Prescription Glasses.]
Section 2.14.2.2. - Vision Correction Prescription - Contact Lenses
[Begin Vision Correction Prescription – Contact Lenses.]
[Section Prompt: Contact lenses- Right Eye.]
        <obtain> Power (Diopters)
        <obtain> Base Curve (Millimeters)
        <obtain> Diameter (Millimeters)
        <obtain> Brand
        <obtain> Color
        <obtain> Add Power (Diopters)
        <obtain> Cylinder (Diopters)
        <obtain> Axis (Degrees)
```

```
[Section Prompt: Contact lenses- Left Eye.]
       <obtain> Power (Diopters)
       <obtain> Base Curve (Millimeters)
       <obtain> Diameter (Millimeters)
       <obtain> Brand
       <obtain> Color
       <obtain> Add Power (Diopters)
       <obtain> Cylinder (Diopters)
       <obtain> Axis (Degrees)
<obtain> Additional Information
[End Vision Correction Prescription – Contact Lenses.]
Section 2.14.2.3. - Eye Prosthetic Devices
[Begin Eye Prosthetic Devices.]
[Section Prompt: Eye Prosthetic Devices]
<obtain> Description
[End Eye Prosthetic Devices.]
Section 2.14.2.4. - Laboratory Tests
[Begin Laboratory Tests.]
   ☐ Complete Blood Count
    ☐ Complete Blood Count with Differential
   ☐ Basic Metabolic Panel
   □ Chem-12
   Blood Urea Nitrogen
   ☐ Creatinine
   ☐ Fasting Glucose
   Hemoglobin A1c
   Fluorescent Treponemal Antibody Absorption
        Angiotensin Converting Enzyme Level
   ☐ Antinuclear Antibody
   □ HLA-B27 Typing
   ☐ Lyme Serologic Testing
   ☐ Lipid Panel
```

	Erythrocyte Sedimentation Rate
	C-Reactive Protein
	Vitamin B12
	Folate
	Thiamine
	Other
	<obtain> Other Lab Tests</obtain>
[End L	aboratory Tests.]
Secti	on 2.14.2.5 Imaging Studies
[Begin	Imaging Studies.]
	X-Ray Chest Posterior-Anterior and Lateral
	CT Head with contrast
	CT Orbits with Contrast
	[Technical Note: Present the following warning if CT Head or Orbits with Contrast is selected for a patient with a documented contrast allergy: "Patient has a documented contrast allergy." If available, provide link to an order set KNART for contrast allergy.]
	CT Head without Contrast
	CT Orbits without Contrast
	MRI Head with Contrast
	MRI Orbits with Contrast
	[Technical Note: Present the following warning if MRI Head or Orbits with Contrast is selected for a patient with a documented contrast allergy: "Patient has a documented contrast allergy." If available, provide link to an order set KNART for contrast allergy.
	MRI Head without Contrast
	MRI Orbits without Contrast
	Carotid Doppler
	Sleep Study
	Other
	<obtain> Other Imaging Studies</obtain>
[End Ir	maging Studies.]
Secti	on 2.14.2.6 Eye Clinic Ancillary Study and Procedure Orders
[Begin	Eye Clinic Ancillary Study and Procedure Orders.]
	Amsler Grid

	Refraction				
	Keratometry				
	Scanning L	Scanning Laser Polarimetry			
	Electroocul	log	graphy		
	Refractive S	Su	rgery Measurements and Calculations		
	Electroretin	nog	graphy		
	Pachymetry	y			
	Intraocular	Pr	ressure Measurement		
	Intraocular	Le	ens Calculations		
	Optical Col	hei	rence Tomography		
		]	Angiography		
		]	Angle		
		]	Anterior Segment		
		]	Cornea		
		]	Ganglion Cell Analysis		
		]	Macular Change Analysis		
		]	High Definition		
		]	Macular Cube		
		]	Macular Thickness Analysis		
		]	Optic Nerve and Retinal Nerve Fiber Layer Analysis		
		]	Progression Analysis		
		]	Single Eye Summary		
	A Scan				
	B Scan				
	Confocal Microscopy				
	Corneal Topography				
	External Eye Photography				
<	<obtain> Des</obtain>	scri	ption		
	Slit Lamp Photography				
<	obtain> Des	scri	ption		

☐ Fundus Photography						
<obtain> Description</obtain>						
☐ Fluorescein Angiography	Fluorescein Angiography					
☐ ICG - Indocyanine Green Angiography						
☐ Other						
<obtain> Description</obtain>						
[End Eye Clinic Ancillary Study and Procedure Orders.]						
Section 2.14.2.7 Medications						
[Begin Medications.]						
[Section Prompt: Current Medications.]						
<pre><obtain> Current Medication list.]</obtain></pre>						
[Section Prompt: Current Eye Medications]						
<pre><obtain> Current Eye Medication list.]</obtain></pre>						
[Technical Note: Dynamically provide a link to the appropriate formulary base	ed on the individual clinical site.]					
[Technical Note: The Medications text field should behave as a search field in the appropriate site-specific formulary.]	which suggestions are made based on					
[Technical Note: Future Implementation KNART that links directly to pharm and then this connection will print selected medications back into the Eye Car						
[Technical Note: The user should have the ability to either print or electronical formulary or off-formulary.]	ally transmit a prescription, either on-					
[Selection Behavior: One required for each medication selected.]						
☐ Continue						
☐ Discontinue						
☐ Increase						
□ Decrease						
□ Add						
[Section Prompt: Medication.]						
☐ Acetazolamide						
<obtain> Detail</obtain>						
□ Acyclovir						
<obtain> Detail</obtain>						
☐ Aflibercept (Restricted to Ophthalmology)						
□ Both Eyes						
□ Right eye						

	Left Eye	
<ob< td=""><td>tain&gt; Detail</td></ob<>	tain> Detail	
Artificial Tears		
	1 drop every 2 hours as needed	
	<obtain> Detail</obtain>	
Atropine Sulf	ate 1% Ophthalmic Solution	
<obta< td=""><td>in&gt; Detail</td></obta<>	in> Detail	
Bacitracin/Po	lymyxin Ophthalmic Ointment	
	3.5 gram	
	<obtain> Detail</obtain>	
Betaxolol Hy	drochloride 0.25% Ophthalmic Suspension (Restricted to Eye Clinic)	
	<text> Detail</text>	
Bevacizumab	Intravitreal Injection (Restricted to Ophthalmology)	
	Right eye	
	Left eye	
	Both eyes	
<ob< td=""><td>tain&gt; Detail</td></ob<>	tain> Detail	
Brimonidine	0.2% Ophthalmic Solution	
	<obtain> Detail</obtain>	
Brimonidine	0.2%/Brinzolamide Ophthalmic Solution	
	<obtain> Detail</obtain>	
Carboxymeth	ylcellulose 1% Ophthalmic Gel	
	<obtain> Detail</obtain>	
Carboxymeth	ylcellulose 0.5% Ophthalmic Solution	
	<obtain> Detail</obtain>	
Cromolyn 4%	Ophthalmic Solution	
	<obtain> Detail</obtain>	
Cyclosporine	0.05% Ophthalmic Emulsion (Restricted to Eye Clinic)	
	<obtain> Detail</obtain>	
Diclofenac So	odium 0.1% Ophthalmic Solution (Restricted to Ophthalmology)	

	<obtain> Detail</obtain>
Dorzolamide	Hydrochloride 2% Ophthalmic Solution (Restricted to Eye Clinic)
	<obtain> Detail</obtain>
Dorzolamide	Hydrochloride 2%/Timolol 0.5% Ophthalmic Solution (Restricted to Eye Clinic)
	<obtain> Detail</obtain>
Doxycycline	
	<obtain> Detail</obtain>
Erythromycin	0.5% Ophthalmic Ointment
	<obtain> Detail</obtain>
Fluoromethol	one 0.1% Ophthalmic Suspension (Restricted to Ophthalmology)
	<obtain> Detail</obtain>
Ketorolac 0.0	25% Ophthalmic
	<obtain> Detail</obtain>
Ketorolac Tro	omethamine 0.5% Ophthalmic Solution
	<obtain> Detail</obtain>
Latanoprost 0	.005% Ophthalmic Solution
	<obtain> Detail</obtain>
Levobunolol	Hydrochloride 0.25% Ophthalmic Solution (Restricted to Eye Clinic)
	<obtain> Detail</obtain>
Lubricating O	phthalmic Ointment
	<obtain> Detail</obtain>
Methazolamio	le
	<obtain> Detail</obtain>
Mitomycin (R	testricted to Ophthalmology)
	<obtain> Detail</obtain>
Multivitamin/	Ophthalmologic AREDS2/Lutein/Zeaxanthin
	2 times daily
	Other
	<obtain> Detail</obtain>
Naphazoline/l	Pheniramine Ophthalmic Solution

		<obtain> Detail</obtain>	
	Ofloxacin 0.3	3% Ophthalmic Suspension (Restricted to Ophthalmology)	
		<obtain> Other</obtain>	
	Pilocarpine H	Iydrochloride 1% Ophthalmic Solution	
		<obtain> Detail</obtain>	
	Pilocarpine H	Iydrochloride 2% Ophthalmic Solution	
		<obtain> Detail</obtain>	
	Prednisolone	Acetate 1% Ophthalmic Suspension (Restricted to Ophthalmology)	
		<obtain> Detail</obtain>	
	Ranibizumab Injection (Restricted to Ophthalmology)		
		Both eyes	
		Right eye	
		Left eye	
		<obtain> Detail</obtain>	
☐ Sodium Chloride Ophthalmic Solution		ride Ophthalmic Solution	
		<obtain> Detail</obtain>	
	Timolol Male	eate 0.25% Ophthalmic Solution	
		<obtain> Detail</obtain>	
	Timolol Male	eate 0.5% Ophthalmic Solution	
		<obtain> Detail</obtain>	
	Travoprost Z	Ophthalmic Solution (Restricted; Submit National Formulary Request)	
		<obtain> Detail</obtain>	
	Other		
		<obtain> Additional Details</obtain>	

#### [End Medications.]

## Section 2.14.2.8. - Patient Education and Instructions

[Begin Patient Education and Instructions.]

<obtain> Patient Education and Instructions

[Technical Note: Link to Site-Specific Patient Educational Materials.]

[Technical Note: Include links to printable illustrations that can be provided to the patient. Creating and storing annotated drawings templates electronically is a future implementation concern.]

[Technical Note: Link to Printable Illustration of External Eyes.]

[Technical Note: Link to Printable Illustration of Cornea.] [Technical Note: Link to Printable Illustration of Anterior Segment.] [Technical Note: Link to Printable Illustration of Lens.] [Technical Note: Link to Printable Illustration of Retinas.] [Technical Note: Link to Printable Illustration of Optic Nerves.] [Technical Note: Link to Printable Illustration of Macula.] [Technical Note: Link to Printable Illustration of Gonioscopy.] [End Patient Education and Instruction.] [End Plan.] **Section 2.14.3. - Consultation Requests** [Begin Consultation Requests.] <obtain> Consultation Requests [End Consultation Requests.] Section 2.14.4. - Surgery Requests [Begin Surgery Requests.] <obtain> Surgery Requests [End Surgery Requests.] Section 2.14.5. - Return for Follow-Up [Begin Return for Follow-Up.] [Section Prompt: Follow up location.] [Technical Note: Allow user to add and remove locations in this list.] ☐ Retina Clinic Tele-Retina Clinic Other <obtain> Description [Section Prompt: Follow up timing] <obtain> number of time increments □ Days □ Weeks □ Months Years [Section Prompt: Dilation Required Next Visit.] Yes

□ No

[End Return for Follow-Up.]

[End Assessment and Plan.]

[End Eye Care Documentation Template.]

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# Appendix A - Existing Sample VA Artifacts

OVCP Functional Requirements April 15, 2015

The authorized user shall have the capability to document ocular care using various approved DoD devices / methods (ID: 178)

Link: https://vaww.infoshare.va.gov/sites/chio/KBS/cdsknart2017/Shared%20Documents/KNART%20Domain-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-

VA%20Clinical%20Content/OVCP/Ocular\_Clinical\_Workflow\_Report\_Del1\_v8\_31Mar2015\_Final%20Artifact.pd f

File Name: Eye Care Wireframes 031915 Artifact

 $Link: \ https://vaww.infoshare.va.gov/sites/chio/KBS/cdsknart2017/Shared\%20Documents/KNART\%20Domain-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Content\%20(VA\%20and\%20non-VA)/non-Eye\%20Care/Clinical\%20Ca$ 

VA%20 Clinical%20 Content/OVCP/Eye%20 Care%20 Wireframes%20031915%20 Artifact.pdf

File Name: Ocular\_Data\_Map\_Rpt\_Del7\_v7\_30Apr2015\_Final Artifact

Link: https://vaww.infoshare.va.gov/sites/chio/KBS/cdsknart2017/Shared%20Documents/KNART%20Domain-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-Eye%20Care/Clinical%20Care

VA%20Clinical%20Content/OVCP/Ocular Data Map Rpt Del7 v7 30Apr2015 Final%20Artifact.pdf

File Name: Opioid\_TSWF COT CPG Paper Backup Jan Apr 2017 Artifact

Link: https://vaww.infoshare.va.gov/sites/chio/KBS/cdsknart2017/Shared%20Documents/KNART%20Domain-Eye%20Care/Clinical%20Content%20(VA%20and%20non-VA)/non-

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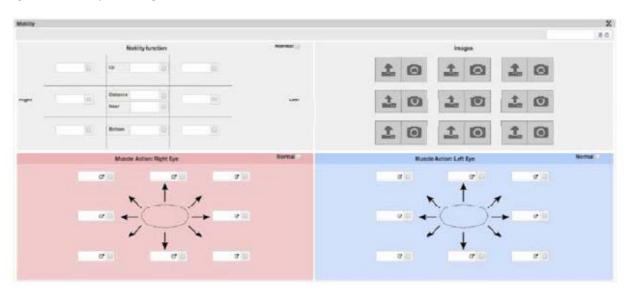


Figure 1. Motility and Alignment Document Tool

# **Appendix B: Basic Laboratory Panel Definition**

- Blood urea nitrogen
- Calcium
- Chloride
- CO2 (Carbon dioxide, bicarbonate)
- Creatinine
- Glucose
- Potassium
- Sodium

## **Appendix C: Acronyms/Abbreviations**

AMD Age-Related Macular Degeneration

AREDS Age-Related Eye Disease Study

CCWP Clinical Content White Paper

CDS Clinical Decision Support

CO2 Carbon Dioxide

CPT Current Procedural Terminology

CT Computed Tomography

DICOM Digital Imaging and Communications in Medicine

DSAEK Descemet Stripping Automated Endothelial Keratoplasty

DSEK Descemet's Stripping Endothelial Keratoplasty

EHR Electronic Health Record

ENDS Electronic Nicotine Delivery Systems

ETDRS Early Treatment of Diabetic Retinopathy Study

HIV Human Immunodeficiency Virus

HLA Human Leukocyte Antigens

HL7 Health Level 7

ICD Internal Classification of Diseases

ICG Indocyanine Green

IOL Intraocular Lens

KBS Knowledge Based Systems

KNART Knowledge Artifact

LASIK Laser-Assisted in Situ Keratomileusis

LRI Limbal Relaxing Incisions

MRI Magnetic Resonance Imaging

NAG Narrow-Angle Glaucoma

OAG Open-Angle Glaucoma

OIIG Office of Informatics and Information Governance

OVCP Optimal Vision Care Prototype

PRK Photorefractive Keratectomy

RAPD Relative Afferent Pupillary Defect

RPC Remote Procedure Call

SME Subject Matter Expert

SNOMED CT Systematized Nomenclature of Medicine Clinical Terms

TIA Transient Ischemic Attack

TO Task Order

VA Department of Veteran Affairs

VAMC VA Medical Center

YAG Yttrium Aluminum Garnet