Innovative uses of OCT in Primary Care Optometry COPE #53004-PD

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TD OCT Study Limitations

- Major disadvantage in these studies is that TD OCT typically measures full retinal thickness only (does not isolate ganglion cells)
- TD OCT does not have enough depth resolution to image and segment the ganglion cells accurately and reliably

- Allows imaging and segmentation of ganglion cell layers

Diagnostic Accuracy: GCC vs FD OCT RNFL

- Rao et al, found GCC had similar accuracy levels as FD RNFL
- Seong et al, found similar results

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• Kim et al, found values were higher for RNFL vs GCC in a group of **advanced** glaucoma patients, but GCC values were higher than RNFL in a group of **early** glaucoma patients

Rao HL, Zangwill LM, Weinreb RN et al. Ophthalmology 2010; in press. Seong M, Sung KR, Choi EH, et al. Invest Ophthalmol Vis Sci 2010; 51:1446-1452. Kim NR, Lee ES, Sung GJ, et al. Invest Ophthalmol Vis Sci 2010

GCC Summary • GCC thickness correlates well with VF • More reproducible and more accurate for detecting glaucoma than macula thickness with TD OCT • Similar accuracy for detecting glaucoma as FD OCT RNFL thickness • Best in early glaucoma

Procedure	Code	Reimbursement
Initial Exam	92004	\$141.81
Visual Fields	92083	\$61.82
OCT – Posterior	92133	\$42.27
OCT – Anterior	92132	\$33.86
Pachymetry	76514	\$14.28
Gonioscopy	92020	\$25.87
1 Month Exam/IOP	99213	\$68.37
Fundus Photography	92250	\$66.40
4 Month Exam/IOP	99213	\$68.37
4 Month Exam/IOP	99213	\$68.37
Total Doctor Fees		\$591.42

Initial Exam 92004 \$141.81 Visual Fields 92083 \$61.82 OCT – Posterior 92133 \$42.27 Fundus Photography 92250 \$66.40 Follow-Up Exam (Frequency Determined by Findings @ Initial Exam) 99213 \$68.37 Follow-Up OCT – Posterior (Frequency Determined by Findings @ Initial Exam) \$2133 \$42.27 Total Doctor Fees \$42.94 \$42.94 \$42.94	Procedure	Code	Reimbursement
Visual Fields 92083 \$61.82 OCT – Posterior 92133 \$42.27 Fundus Photography 92250 \$66.40 Follow-Up Eam (Frequency Determined by Findings @ Initial Eam) 99213 \$68.37 Follow-Up OCT – Posterior (Frequency Determined by Findings @ Initial Eam) 92133 \$42.27 Total Doctor Fees \$42.94 \$42.94 \$42.94	Initial Exam	92004	\$141.81
OCT – Posterior 92133 \$42.27 Fundus Photography 92250 \$66.40 Follow-Up Esam (Frequency Determined by Findings @ Initial Esam) 99213 \$68.37 Follow-Up OCT – Posterior (Frequency Determined by Findings @ Initial Esam) 92133 \$42.27 Total Doctor Fees \$42.294 \$42.294	Visual Fields	92083	\$61.82
Fundus Photography 92250 \$66.40 Follow-Up Exam (Frequency Determined by Findings @ Initial Exam) 99213 \$68.37 Follow-Up OCT – Posterior (Frequency Determined by Findings @ Initial Exam) 92133 \$42.27 Total Doctor Fees \$42.94 \$42.94	OCT – Posterior	92133	\$42.27
Follow-Up Exam (Frequency Determined by Findings @ 99213 \$68.37 Initial Exam) Follow-Up OCT - Posterior (Frequency Determined by Follow-Up OCT - Posterior (Frequency Determined by Findings @ Initial Exam) 92133 \$42.27 Total Doctor Fees \$42.94 \$42.94 \$42.94	Fundus Photography	92250	\$66.40
Follow-Up OCT – Posterior (Frequency Determined by 92133 \$42.27 Findings @ Initial Exam) Total Doctor Fees \$422.94	Follow-Up Exam (Frequency Determined by Findings @ Initial Exam)	99213	\$68.37
Total Doctor Fees \$422.94	Follow-Up OCT – Posterior (Frequency Determined by Findings @ Initial Exam)	92133	\$42.27
	Total Doctor Fees		\$422.94

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Billing and Coding: AMD/Mac monitor

Procedure	Code	Reimbursement
Initial Exam	92004	\$141.81
Visual Fields	92083	\$61.82
OCT – Posterior	92133	\$42.27
Fundus Photography	92250	\$66.40
4 – 6 Month Exam Based on Initial Exam	99213	\$68.37
4 – 6 Month Follow-Up OCT Based on Initial Exam	92133	\$42.27
Total Doctor Fees		\$422.94

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Patient: Taylor, D Physician: Operator: Disease:	These cannots may she what	Gender: Male ID: 164653	Exam Date: 07/03/2014 DOB(age): 05/07/1942 (72) Ethnicity: Caucasian Algorithm Ver: A2014, 1, 0, 51
Pachymetry	Signal Strength Index	56	Left / OS
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Report Date: Wednesday 09/03/2014 17:08:38	Software Version: 2014.1.0.51		
Comment:			
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