



Audience response question #2

- What condition led to the most failure to diagnose ophthalmic malpractice claims?
 - 1. Glaucoma

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- 2. Giant cell arteritis
- 3. Retinal detachment
- 4. Corneal infection

Audience response question #3

- What factor contributed the most to diagnostic errors?
 - 1. Atypical presentations

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- 2. Physicians' cognitive processes
- 3. Failure to follow up on test results
- 4. Poor communication among healthcare providers

Diagnostic Error

 A diagnosis that is "missed, wrong, or delayed, as detected by some subsequent definitive test or finding."

 Graber M. Diagnostic Errors in Medicine: A Case of Neglect. Comm J Qual Patient Saf 2005; 31: 106-13.

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Prevalence of diagnostic error

- Estimated by experts to be 10-15% of all care
- Graber ML et al. Cognitive interventions to reduce diagnostic error: a narrative review *BMJ Qual Saf* 2012; 21: 535-557.

Frequency of malpractice claims alleging diagnostic errors

- Most frequent type of malpractice claim in the US (all physicians)
- Highest frequency (29%), severity, and harm in analysis of 25 years of claims reported to the National Practitioner Data Bank
- 20% of claims in analysis of 23,527 claims in CRICO data sharing project

Diagnostic Error OMIC Database

- OMIC's Claims Committee noted an increasing number of diagnostic error cases, referred to Risk Management
- We are conducting an analysis of all such claims over the last 10 years (in progress)
- · Will present glaucoma and retina data from last 7 years today

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- 12% claims 2008-2014
- RD = 29% overall, 70% retina claims

Diagnostic Error Indemnity Payments

	OMIC Overall	Diagnostic Errors	Retina	Glaucoma
% Paid	19%	33%	30%	50%
Range	\$1600- \$2,000,000	\$1600- \$2,000,000	\$1600- \$1,500,000	\$10,000- \$500,000
Median (Middle)	\$125,000	\$175,000	\$200,000	\$50,000
Mean (Average)	\$199,347	\$318,245	\$320,316	\$139,900
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Failure to Diagnose Glaucoma - Case #4 Medical facts: 7-8-08: Dr. S. examined 50-year-old female with chief complaint, "droopy right upper lid with irregular pupil, right eye" - History of chronic headaches - Denies any anhydrosis - Exam: Va 20/20 OU, IOP 18-19mmHg, EOM: Full - Pupil: round after dilation, slightly irregular prior - Lids: 1-2mm ptosis right upper lid - Rest of exam - "normal" - Dx: "Could have mild Horner's syndrome OD but doesn't meet all criteria'

- Plan: Observation-followup 1 year

Failure to Diagnose Glaucoma -Case #4

"Failure to diagnose"

7-9-08

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- Chief Complaint: "Slight vision changes"
- Va 20/20, IOP 18mmHg OU
- Pupil: 1-2mm slightly irregular unchanged - SLE: "Tear drop pupil"
 - Peripheral anterior synechiae at 12 o'clock
 - Iris atrophy temporally
- Fundus: "Unremarkable"
- Dx: "Possible Horner's with iris atrophy"
- Plan: "If it changes to be seen in followup, recheck 1 year

Failure to Diagnose Glaucoma -Case #4

Medical Facts:

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- 7-12-10: patient was a "no show"
- 8-24-11: seen by O.D.: IOP OD 48mmHg referred

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- 8-30-11: Dr. C.: Dx: ICE-Chandler's with extensive visual field loss, right eye
- Damages: ICE syndrome with significant visual field loss, right eve

Failure to Diagnose Glaucoma -Case #4

Plaintiff Expert

Failure to:

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- Investigate/diagnose abnormal pupil and iris
 Perform diagnostic procedures to diagnose ICE
 Refer to specialist to DX/TX ICE syndrome

No.

Failure to Diagnose Glaucoma -Case #4

Defense expert: Dr. A

- Supportive: Failure to diagnose ICE "not an issue" as Tx generally supportive unless IOP rises
- Impossible to know time course of elevated IOP
- Insured had no chance to treat as did not return for followup.

Failure to Diagnose Glaucoma -Case #4

Defense expert: Dr. B

- Not supportive: ICE syndrome missed on both exams
- Questionable Horner's diagnosis with no diagnostic testing to confirm diagnosis
- Gonioscopy/endothelium exam omitted
- Insured failed to advise significant risk of
- glaucoma/counseling on importance of followup e.g. in 2-4 months.

Failure to Diagnose Glaucoma -Case #4

OMIC review:

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- Obvious missed diagnosis: question as to whether if kept followup would have made diagnosis of ICE/GLC
- Failure to DX below SOC

Failure to Diagnose Glaucoma -Case #4

SUMMARY:

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- Allegation: Delayed Dx/Tx glaucoma, right eye
- Insured consent: no, but interest in settlement
- Liability statement: Probable
- Settlement value: \$200,000 \$250,000
- Verdict range: \$350,000 \$500,000
- % chance for defense: <50%
- -Status: Case settled for \$137,500

Take home point: "When it doubt, refer out!"

Failure to Diagnose Glaucoma -Case #3



Failure to Diagnose Glaucoma -Case #3

Medical facts

61-year-old male

- 2-19-09: Uncomplicated phaco/PC/IOL OS; Va preoperative 20/200
- 3-12-99: Uncomplicated phaco OD: Va preop 20/200: dense PSC and diffuse retinal hemorrhages noted preop
- 3-15-99: 3 Days Later.... POD #1 OD Va count fingers
 Dx: CRVO with macular edema
 - Plan: FANG done same day; confirm CRVO (nonischemic)
 FANG: Film itself "lost, misplaced" for 2 months

Failure to Diagnose Glaucoma -Case #3

Delay Dx/Tx glaucoma, OD

- 4-19-99: Complains of "pain" for past weekExam: Pupillary capture of IOL with angle closure: IOP 36
- Tx: Medical laser
- 5-2-99: Recurrence of "capture"
- Tx: Further laser

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- 5-12-99: VA improved slightly, OD count fingers at 3 ft
 10-20-99: (Last office visit) OD: Va 20/400, OS 20/25
- Damages: Alleged "nearly complete loss of vision OD"
 Va pre 20/200 OD; post 20/400
 Lost wages/medical expenses

Failure to Diagnose Glaucoma -Case #3

Plaintiff Experts:

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- Nothing in records suggest cataract surgery OD was planned for purpose of attaining clear exam
- Critical of: First postoperative exam 3 days after surgery
- Insured should not have performed surgery if able to monitor retina
- Most surgeons would have monitored Va /Ta evolution prior to cataract surgery

Failure to Diagnose Glaucoma – Case #3

Allegation: Delayed treatment glaucoma

 Defense Expert: Post op care less than optimal; did not contribute to vision loss
 CRVO ultimately decreased vision

– OMIC Review:

- Case defensible: Indications for surgery sound; to allow further evaluation of occlusive disease
 Glaucoma was appropriately diagnosed and treated; but postoperative pupillary block glaucoma occurred because of
- the inflammation not caused by the insured.

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Failure to Diagnose Glaucoma – Case #3

SUMMARY

- Liability statement: Jury believed insured negligent in early postoperative care
- Damage statement: Settlement value; less than \$100,000 Jury verdict range: \$200,000 - \$300,000
- % chance for defense verdict: > 60%.
- Status: initial hung jury, new trial
- Ruled in favor of plaintiff
- Settled: \$181,207.60.

with co-morbidities and .

When in doubt, refer out



Failure to Diagnose Glaucoma – Case #2

Medical facts:

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- Patient seen regularly by insured since 1988
- 10-8-04: Patient now 68; Va 20/25 OD, 20/30 OS, IOP 20mmHg and 21mmHg
- » Cup-to-disc changes; no testing
 4-2005: VA 20/30 OU, IOP 20/22mmHg; no testing
- 3-20-06: Va 20/30 and 20/60; IOP 18/24mmHg; no testing
- 4-2006: Glaucoma (normal tension) diagnosis made while in Florida when being evaluation for chalazion: IOP 24mmHg OU; C/D 0.7/0.8
 - » Referred to glaucoma specialist: goal <12-13 mmHg » Advanced MTMT (maximum tolerated medical
 - therapy) + SLT

Failure to Diagnose Glaucoma – Case #2

Damages:

- VA loss: superior arcuate OD; nasal step OS
- "Loss of enjoyment of life past, present and future, emotional distress, loss of consortium"
- Maintain functional vision: 20/20, 20/25 and driving



Failure to Diagnose Glaucoma – Case #2 Plaintiff Expert: Critical of insured for failure to closely monitor pressure, appropriate testing OMIC Review Unfortunate case with progressive nerve changes not acted upon – Dx/Tx missed for years, led to visual loss; left greater than rightDifficult to defend OMIC 29

Failure to Diagnose Glaucoma – Case #2

SUMMARY

- Liability Statement: Insured below SOC
- Demand: \$1.4 million "Hired Pinkerton surveillance" to investigate plaintiff "limitations"
- Status: Settled with split \$250,000 OMIC, other insurance company \$250,000





Failure to Diagnose Glaucoma – Case #1

Medical facts

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- 2000: Plaintiff then 53, treated for chalazion RUL
- 2003: LLL chalazion
- 9-2-03: Canaliculitis
- 10-03: Epiphora diagnosed- punctal plug placed
- 12-03: Plug removed

Failure to Diagnose Glaucoma – Case #1

Medical Facts

- 2-04: Recurrent chalazion LLL, I&D + Celestone
- 4-04: Chronic tearing, conjunctivitis, steroid antibiotic treatment, possible nasal lacrimal duct obstruction
- 5-04: DCR performed. Dexamethasone RX
- 2-05: Insured noted patient taking steroid right eye PRN
- 6-05: Refill "OK'ed 6-7-05"
- 9-05: Rx: Tobradex prn
- 11-05: Plan repeat DCR OD; Tobradex OS, patient cancelled surgery



Failure to Diagnose Glaucoma – Case #1

Case #1:

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- Medical Facts: "It goes from bad to worse"
- Glaucoma Specialist noted significant damage OD>OS advanced to MTMT-trabeculectomy OD/revision OD then developed hypotony maculopathy.
- Patient insurance did not list Glaucoma Specialist as provider.
- Insured spoke by telephone 2 times and wrote personal checks to patient (to cover Glc visits)
- "Recalls no discussion on limitation of steroid use"



Failure to Diagnose Glaucoma – Case #1

Defense expert:

- Failure to monitor IOP; diagnose glaucoma

OMIC review:

- Insured admitted treated chronic right eye with antibiotic/steroid without fundus exam/pressure check
- $\ensuremath{\,\text{Insured}}$ was below standard of care

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- Difficult to defend

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Failure to Diagnose Glaucoma – Case #1

Lesson learned: Confucius?: Recall to look at forest even though looking at single tree OR Never attempt to "buy off" a patient

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Failure to Diagnose Glaucoma – Summary Case #4 – failure to DX Chandler's -> be a better clinician Case #3 – failure to DX NTG -> do appropriate testing Case #2 – Cat SX/ CRVO → failure to relay expectations Case #1 – Steroid Glaucoma → too many errors to list!





Plaintiff

32yo myope (-6.5D OU)
Former Executive Assistant
Salary \$86,000 + benefits
On disability since 11/3/11
"Jury would likely be sympathetic to her situation"

Insured

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- Well-respected retina specialist
- Pt also saw partners
- Retired shortly after seeing patient
- "Comfortable, polite, articulate"

Facts of Case: 9/12/11 Pt noted floaters, "darker vision" in lower vision OD 20/20 OU, no cells in anterior vitreous; no PVD Fundus normal on indirect ophthalmoscopy Scleral depression not performed Dr. A states very good view of retina; examined twice No mention of lattice degeneration Previously noted by O.D., but not by Dr. A's partner (Dr. B) in 2010 Dx: Vitreous syneresis

Facts of Case: 10/27/11

- · Recent worsening grey shadow lower right corner
- Partner Dr. C dx'd superior RD OD, 20/32, splitting fovea
 - Also documented lattice degeneration
- Pneumatic retinopexy performed
- 12/13/11: attached, 20/30 OD



Facts of Case: December 2011

• In Hawaii, "cloudy vision"

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- 12/16/11: Dr. D CF 4', "flat 360", prior RD noted, laser demarcation performed
- 12/21/11: CF, "stable"
- 12/25/11: Vision noticeably worse

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12/27/11: Dr. E in Maui – mac-off RD, CF vision, option to repair or return home

Facts of Case

- 12/29/11: Pt saw Dr. F CF, RD
 Buckle / vitrectomy #1
- Initially did well vision 20/250 on 1/23/12
- 1/30/12: PVR Vitrectomy #2 / MP / EL / gas
- 3/26/12: Vitrectomy #3, lensectomy, SO
- 5/30/12: Vitrectomy #4, 360deg retinotomy, subretinal membrane removal, SO exchange
- OD stable at HM vision

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 July 2012: retinal tears OS lasered x 4 – additional tears lasered May 2013

Plaintiff Expert

- Critical of lack of scleral depressed exam
- Critical of failure to note lattice degeneration

Defense Expert

- Majority of problems unrelated to initial RD
- Insured within SOC but lack of scleral depression a weakness



AAO PPP for PVD, Ret Breaks, LD

- The eye examination should include the following elements:
- Examination of the vitreous for hemorrhage, detachment, and pigmented cells (4-9,59 [A:II])
- Peripheral fundus examination with scleral depression (60 [A:III])

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Summary

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- Allegation: Failure to diagnose retinal detachment
- Outcome: Vision 20/20 to HM
- Lack of Scleral Depression likely below SOC
- Liability
 50-60% chance of defense verdict
- Damages
 - Verdict range could be \$1.2 2.1M

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• Status: Case settled for \$300,000

Take-home points

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- Perform thorough exam
- Document thoroughly

Take-home points

- Perform thorough exam
- Document thoroughly
- Avoid becoming depressed scleral depress!

No.

Take-home points

- Perform thorough exam
- Document thoroughly
- Avoid becoming depressed scleral depress!

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Case 2: Failure to Diagnose RD

- Plaintiff: 47yo surgeon
- Insured: Prominent academic retinal surgeon

Facts of Case

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- Nov 2008: Plaintiff "poked in eye by son"
- Sees local retina (Dr. A)
- CF 1ft, Pre-macular hemorrhage
- On Coumadin for prior CVA



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- Seen by insured retina Dr. B.
- VA CF; small ST retinal tear, significant heme, probable choroidal rupture
- B-scans show no RD
- Tear lasered

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- Options Discussed: Vitrectomy vs. observe
- Pt elects observation

Nov – Dec 2008 – January 2009

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- Multiple visits & B-scans
 - Persistent VH, PVD
 - Pt continues to elect observation
- Jan 2009: Pt agrees to vitrectomy
- Consented for vitrectomy with laser
- Vitrectomy / MP / EL 360
- Pt states "never consented to 360 laser"

Feb 2009

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- Feb 3: Vision improved to 20/70
- Feb 11: New symptoms; no RD noted
 No B-scan as view clear
- Hours later, returns to local retina Dr. A. shallow RD
- Referred to insured Dr. B– new RD on Bscan
- Same evening: Repeat vitrectomy, endolaser, GFX

March 2009

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- VA CF, attached
- Pt develops cataract and metamorphopsia due to PVR
- Transfers care to another university
- Cataract surgery not recommended due to poor visual potential

Allegations

- Both vitrectomies "untimely and procedurally flawed"
- Claims lost wages of \$4.4 5.9 million

Plaintiff's Experts

• Initial endolaser was excessive and not standard of care

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• Insured missed RD in February

Defense Expert

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• RD could have developed over few hours between exams, but difficult to defend without additional documentation (i.e. B-scan or depressed exam)

Outcome

• Settled for \$500,000

Take-home points

- Perform thorough exam
- Document thoroughly
- Be particularly careful in cases of trauma



Case 1: Failure to Diagnose RD

- Plaintiff: 65yo surgeon
- Insured: General ophthalmologist

Facts of Case

- Late Oct 2005: Plaintiff had mild trauma to R orbit (bumped on cabinet door)
- Nov 2: New floaters
- Nov 3: Blurred vision



Nov 4 2005

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- Friday Pt sees insured ophthalmologist for blurred vision
- Cursory history
- VA 20/40 OU correctable to 20/25
- No dilation

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· Bifocals prescribed

Nov 6 2005

- Saturday Pt calls insured at midnight with loss of vision OD
- Insured arranges for retina evaluation
- Sunday morning retinal surgeon diagnoses RD, performs pneumatic retinopexy

Dec 2009

• VA 20/400

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- Persistent IT SRF
- Barricade laser performed
- No further improvement

Allegations

- Failure to diagnose and treat RD
- Claims lost wages of \$3.7 million

Defense Expert

• Lack of dilation on initial exam likely below standard of care

Outcome

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• Settled for \$650,000

Case 1: Take-home points

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- Take a thorough history
- Perform thorough exam, including dilation
- Document thoroughly
- Be particularly careful in cases of trauma

Take-home points: Summary

Case #3: For F/F, Scleral Depress!

Case #2: Be particularly careful in cases of Trauma
Document thoroughly (including B-scan if any doubt)
Case #1: Take a thorough history including Trauma

- Perform thorough exam, including dilation
- When in doubt, refer out!

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Cause of errors

- Where in the diagnostic process did errors occur?
- What factors contributed to the error?
- Gandhi TK et al. Missed and delayed diagnoses in the ambulatory setting: A study of closed malpractice claims. *Ann Intern Med* 2006; 145: 488-496.
- Malpractice risks in the diagnostic process. 2014
 CRICO Benchmarking Report.ww.rmfstrategies.com

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Diagnostic Process

- Initial diagnostic assessment
 - Problem noted, care sought
 - History and physical conducted
 - Patient assessed, symptoms evaluated
 - Differential diagnosis established
 - Diagnostic tests ordered

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Diagnostic Process

- Testing and results processing
 - Tests performed
 - Tests interpreted
 - Test results transmitted to/received by ordering physician



Diagnostic Process

- Follow up and coordination of care
 - Physician follows up with patient
 - Referrals/consults
 - Patient information communicated among care team members
 - Patient and providers establish follow-up plan
 - Monitoring of patient

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Diagnostic Process Analysis: Top 5 Glaucoma & Retina Claims





Factors Analysis: Top Five Glaucoma & Retina Claims 4 •Appointment •Noncompliance 1 Glaucoma Judgment scheduling 1 Retina 4 •EHR carry forward •Clinical condition 1 Judgment function 1 TOTAL 2 2 OMIC



Get a 2nd opinion from yourself

- · Take a diagnostic time out
 - Seek alternative explanations: "Could this be something else?'
 - Explore the consequences of alternative diagnoses: "If I am wrong, what don't I want this to be?'
 - Be open to unexplained findings and test results that challenge your diagnosis
 - Accept uncertainty

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Audience response question #2

- What condition led to the most failure to diagnose malpractice claims?
 - 1. Glaucoma
 - 2. Giant cell arteritis
 - 3. Retinal detachment
 - 4. Corneal infection

Audience response question #2

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Audience response question #3

- What factor contributed the most to diagnostic errors?
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- 2. Physicians' cognitive processes
- 3. Failure to follow up on test results
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Audience response question #3

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