

## Florida O.D. CE Begins

May 2002
New rules to 64B13-5.001
2-hour course for licensure and renewal
We are not the only ones...
imither In ifili

## 2015...famous person almost gets it...

## 2016 - Same As It Ever Was $\rightarrow$

 Med Errors $3^{\text {rd }}$ leading cause of death USA

## 2017 - any better?

## Preventable Deaths in American Hospitals

January 23, 2017

Hospital medical errors are the third leading cause of death in the United States. Thats 700 people per day, notes Steve Swensen. "And most of those have a second etim: the nurses, doctors, social workers, managers, pharmacists in lived in their care."

## 2019 - Numbers lower with new data analysis

Prevalence, severity, and nature of preventable patient harm across medical care settings: systematic review and meta-analysis
BMJ 2019 : 366 doi: https://doi.org/10.1136/bmi./4185 (Published 17 July 2019) Cite this as: BMJ 2019;366:14185

RESULTS: Of the 7313 records idenififed, 70 studes invol ving 337025 patients were inculded in the mela-analysis. The pooled prevalence 10 preverntable patient hamm was $5 \%$ (95\% confidence interval $5 \%$ to $7 \%$ ). Apooled proporion o $12 \%$ (9\% to 15\%) of preventable patient
 30 \%) accounted tor the argest propotion of preventable palient hamm. Compared with general hospitas (where mosi evidence originateed), preveritable ealient harm was more prevalentin advanced speciallies (internsive Care of surgerng. pegression coefficient $b=0.07,95 \%$ confidence intenal 0.04 100.10).

## Where Did Covid-19 fit in?





## Factors that can increase risk

## of errors...

## Fatigue

Alcohol/arugs
Illiness

- Inattention/alistractions
- Emotional states
- Unfamiliar situations/conditions


## Factors that can increase risk of

errors...
Equipment problems
Inadequate labeling/instructions
Communication problems
Handwriting Hrpame 10000
Sound alfke drugs

- Office set-up/record keeping


## Medication Errors

1,5 million Americans effected by mistakes made in prescribing, dispensing, using prescription drugs IOM 2006
~7,000 medication error deaths (Starfield JAMA 2000) Tens of thousands outpatient!!! - IOM 2006
Fatal medication errors (FDA 1993-1998)

- Improper dosage (41\%)
- Wrong drug (16\%)
- Wrong route (16\%)
- 50\% fatal medication errors in pts > 60 yo
- Time of year?



## Root Cause Analysis (RCA)

## JCAHO requirement

Goal is to identify the underlying cause of a medical error and develop prevention strategies
Looks beyond the immediate result, identifies events or contributing factors which led to the error

- Must be credible and thorough to be effective...



## Root Cause Analysis (RCA)



## Trigger Tools for Identifying Adverse Events

## Institute for Healthcare Improvement

Cambridge, Massachusetts, USA
The use of "triggers," or clues, to identify adverse events (AEs) is an effective method for measuring the overall level of harm from medical care in a health care organization Traditional efforts to detect AEs have focused on voluntary reporting and tracking of errors. However, public health researchers have established that only 10 to 20 percent of errors are ever reported and, of those, 90 to 95 percent cause no harm to patients. Hospitals need a more effective way to identify events that do cause harm to patients, in order to select and test changes to reduce harm.

There are various Trigger Tools available on IHI.org, including:

- IHI Global Trigger Tool for Measuring Adverse Events [Danish, German, Swedish, and UK translations also available]
- Trigger Tool for Measuring Adverse Drug Events
- Trigger Tool for Measuring Adverse Drug Events in a Mental Health Setting
- Trigger Tool for Measuring Adverse Drug Events in the Nursing Home
- Surgical Trigger Tool for Measuring Peri-operative Adverse Events
- Intensive Care Unit Adverse Event Trigger Tool
- Pediatric Trigger Toolkit: Measuring Adverse Drug Events in the Children's Hospital
- Perinatal Trigger Tool
- Trigger Tool for Measuring Adverse Events in the Neonatal Intensive Care Unit - Outpatient Adverse Event Trigger Tool



## Errors and Eye Surgery

## Surgical Confusions in Ophthalmology

John W. Simon, MD; Yen Ngo, MD; Samira Khan, MD; David Strogatz, PhD


Objective: To investigate the hypothesis that surgical confusions rarely occur but are unacceptable to the public; occur in predictable circumstances; involve a wrong lens implant more often than a wrong eve, procedure, or patientr; and can be prevented using the Universal Protocol.

Results: The most common confusion was wrong lens implants, accounting for 67 cases ( $63 \%$ ). Wrongeyeoperations occurred in 15 cases, wrongeye block in 14 , wrong patientor procedure in 8 , and wrong corneal trans. plant in 2 . Use of the Universal Protocol would have prevented the confusion in 90 cases ( $85 \%$ ).

## Reduction of errors...Optometry

Making the correct diagnosis
Providing the correct treatment based on the diagnosis

- evidence-based medicine (EBM)

Making sure the correct medication is Rx'ed
Correct follow-up/automated recall systems

- follow-up with no-show patients
- Equipment
- up to date, maintained, calibration schedules
- Special populations


## ChatGPT

```
AD How to tell if retinal photo is from a male or female
```

(53) It is not possible to determine the gender of a person based on their retinal photograph. The structure of the retina, the light-sensitive tissue at the back of the eye, is similar in all people regardless of their gender. Factors such as age, health, and genetics can affect the appearance of the retina, but these characteristics do not vary based on gender.

It is important to note that making assumptions or attempting to infer personal characteristics, such as gender, based on physical characteristics can be harmful and is not a scientifically valid approach. It is always best to respect an individual's self-identified gender and not make assumptions based on physical characteristics.

## Reporting Errors for FL

The required notification must be in writing and submitted to the department by certified mail. The required notification must be postmarked within 15 davs ... if the adverse indident occurs ... at the ofice ... If the adverse incident occurs when the patient is not at the office ..., the required notification must be postmarked within 15 days atter the licensed pracitioner discovers... the occurrence of the adverse incident.

## Reporting Errors

## tute $\mathbf{3 9 5 . 0 1 9 7}$

Certain adverse events must
be reported to the state

## Death

Brain or spinal damage
Permanent alisfigurement
Fracture/dislocation bones or joints

- Transfer of patient to more acute level of care
- Surgery on wrong patient
- Surgery on wrong-site
- Wrong surgical procedure
- Chapter 463.0141 - OUR NOW
- Adverse drug reaction, date of rxn, if referral needed

```
    Antibiotics (Amoxillin}\quad FL Med
    1. Amoxicilim
    2. Dicloxacillin
    3. Doxycycline
    4. Keflex
    . Minocycline
    6. Azithromycin
    7. Ciprofloxacin
    Antivirals
    1. Acyclovir
    2. Famciclovir
    3. Valacyclovir
    Oral anti-glaucoma agents
    1. Acetazolamide
    2. Methazolamide
        72 HR RULE
    Analgesics
    1. Tramadol
    2. Acetaminophen }300\textrm{mg}\mathrm{ with No. }3\mathrm{ codeine phosphate }30\textrm{mg}\mathrm{ .
```


## Caution using azithromycin in patients with heart disease

Azithromycin 'Z-packs' tied to potentially fatal arrhythmia
Anicka Slachta | May 15, 2019| Electrophysiology \& Arrhythmia


## Warning

Taking ciprofloxacin increases the risk that you will develop tendinitis (swelling of a fibrous tissue that connects a bone to a muscle) or have a tendon rupture (tearing of a fibrous tissue that connects a bone to a muscle) during your treatment or for up to several months afterward. These problems may affect tendons in your shoulder, your hand, the back of your ankle, or in other parts of your body. Tendinitis or tendon rupture may happen to people of any age, but the risk is highest in people over 60 years of age. Tell your doctor if you have or have ever had a kidnev, heart, or lung transplant; kidney disease; a joint or tendon disorder such as rheumatoid arthritis (a condition in which the body attacks its own joints, causing pain, swelling, and loss of function); or if you paticicipate in regular physical activity. Tell your doctor and pharmacist if you are taking oral or injectable steroids such as dexamethasone (Decadron, Dexpak), methylprednisolone (Medrol), or prednisone (Sterapred). If you experience any of the following symptoms of tendinitis, stop taking ciprofoxacain, rest, and call your doctor immediately: pain, swelling, tenderness, stiffness, or dificiculty in moving a muscle If you experience any of the following symptoms of tendon rupture, stop taking ciprofloxacin and get emergency medical treatment: hearing or feeling a snap or pop in a tendon area, bruising ater an injury to a tendon area, or inability to move to bear weight on an affected area.

Taking ciprofoxacin may worsen muscle weakness in people with myasthenia gravis (a disorder of the nenous system that causes muscle weakness) and cause severe difficulty breathing or death. Tell your doctor if you have myasthenia gravs. Your doctor may tell you not to take ciprofloxacin. If you have myasthenia gravis and your doctor tells you that yo should take ciprofoxacin, call your doctor immediately if you experience muscle weakness or difficulty breathing during your treatment.

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| :---: |
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## Ciprofloxacin ("Cipro")

Fluoroquinolone - broad spectrum, $2^{\text {nd }}$ gen.
Dosage 500 mg q 12-24 hrs
Good for PCN allergic pts
Tendinitis or rupture of tendons
Can cause elevated, toxic blood levels of theophylline (COPD)

- Do not use in MG pts


## When medical error becomes

 malpractice...Malpractice (each must be proved) - Doctor had a duty to the patient Doctor breached standard of care for the event - Breach was the cause of injury to the patient

- Patient was in fact damaged/harmed as a result of the injury
- There was no contributory or apportioned negligence



## Do you have a valid medical malpractice case?

Proving medical malpractice takes three elements.

- Unacceptable care: Did the optometrist act in a way that most other optometrists in similar situations would have acted? Did he or she follow normal protocols and guidelines provided by the American Optometric Association?|f your doctor fell short of the industry standard of care, it might be considered malpractice.
- Causation: The optometrist's behavior must be directly linked to your harm. In other words, if not for the doctor's negligence, you would not have been harmed. If you were injured or sustained injuries but it was a natural symptom of your disease not necessarily the doctor's actions, then you can't hold the doctor accountable.
- Damages: You have to have sustained actual damages as a result of the optometrist's mistake. If $\mathrm{s} /$ he made an error, but no harm came of it, you have no cause to file a suit.


## Speaking to a Medical Malpractice Attorney about Your Case

Optometrists have a high standard of care for patients. If they breach this standard and are careless or negligent with their patients, it can have serious, long-term ramifications.

[^0]Filing An Optometry Malpractice Claim

Contact Us

Name:

| Phone* |
| :--- |
| Emall |

Emall ${ }^{2}$
Tell us nore.
Send
Eyesight is one of our most valuable senses, and we pay top dollar for optometrists to keep it in good condition. Medical malpractice suits extend to cover optometry malpractice. If you are eligible and can successfully substantiate your claim, you can recover a broad range of damages, from medical bills and loss of income, to rehabilitation and emotional damages.

Common Types of Optometrist Malpractice Cases
Our firm handles all types of medi cal malpractice cases, including those from harmed optometrist patients. It's quite heart-wrenching when we receive call s from devastated patients who've lost their sight because of their doctors' preventable errors.
According to Optometric Management, "The vast majority of malpractice cases fall within three categories of disorders: retinal detachment, glaucoma, and tumors. Failure to diagnose choroidal neovascularization and proliferative diabetic retinopathy are important but are less frequent causes or
mal practice litigation."
malpractice litigation.

Other triggers for a malpractice lawsuit that we've come across in our practice include the following.

- Corneal diseas

Not obtaining informed consent

- Complications in contact lens wearers leading to diagnostic errors

Faling to use diagnostic drugs for dilation of the pupil

- Adverse responses to ophtha imic drug
- Not receiving proper notification about the risks of procedures or of other treatment options - Failure to offer binocular vision therapy to amblyopic children



## Risks for malpractice claims

Troubled relationships with doctor (~70\%) Subsequent consult doctor recommended calling a lawyer (27\%-54\%)
Are health care providers or have health care providers in family ( $\sim 38 \%$ )
Higher expectations with medical advances


## Optometric Malpractice Claims

Misdiagnosis of Intraocular Disease

- POAG, retinal detachment, mass are highest rate but don't forget ARMD and DMI
Injuries from Ophthalmic Materials CL's (corneal comps), Spectacles (polycarbonate)
Misdiagnosis of Ant. Seg. Disease Corneal dz, FBs
Improper Co-Management
- Refractive surgery, cataract surgery
- Injuries from Ophthalmic Drugs
- Angle closure
- Misdiagnosis of Binocular Vision Anomalies
- Failure to tx amblyopia

Classe' 1998

## Here's the good news...

Malpractice payments by optometrists: an analysis of the national practitioner databank over 18 years.
Duszak RS', Duszak R Jt.

Abstract
PURPOSE: The aim of this analysis was to describe characterisicics and trends of malpractice payments by optometisists since the inception of the National Provider Data Bank (NPDB) as they assumed increasing prescriptive authority.
METHODS: NPDB data files were analyzed for details of optometist malpracice payments from 1991 through 2008. Payment amounts, sources, and allegations were all identified and summarized, along with geographic and demographic data.
RESULTS: Between 1991 and 2008 , a total of 609 optometist malpractice payments were reported nationally, ranging from 550 to $\$ 2,050,000$ (median, $\$ 57,500$; mean, $\$ 156,055 \pm 246,556$ ), with 603 ( $99 \%$ ) less than $\$ 1,000,000$. Annual inflation-adjusted mean dollars and frequency of payments increased only nominally over the 18 -year interval, from $\$ 154,573$ to $\$ 155,151$, and 30 to 40 , respectively. More than half of all cases originated in 11 states. Aleged errors in diagnosis accounted for $55 \%$ of all cases.
CONCLUSION: Malpracice payments on behalf of optometrists are relatively infequent (on average, less than 34 nationally each year) and usually relatively small (almost hafl less than 550,000 ). The trequency of payments and mean payments have increased litte over the last 2 decades.


## POAG

Always do
Applanation IOPs needed, good baseline
Assessment of ONH with dilated pupil - MISSING? drawings, stereo photos, OCT, etc.

- Sensitive visual field (30-2, 24-2)
- Medications
- Medical history
- Good follow-ups
- Refer for laser/surg if needed
- Current standard of care


Retinal Detachment
DFE
Symptoms
Risk Factors
Fresh PVD
Sig. myopía

- Pseudophakia/aphakia
- YAG capsulotomy
- Lattice degeneration
- Proliferative retinopathies
- Trauma
- h/o RD in fellow eye



## Fundus Appearance

Pale disc swelling
Peripapillary hemorrhages Attenuated retinal arterioles



Early Papilledema


Note mild blurring of disc margin inferior and superior OU and that cup is still present

## Papilledema - these are easy!



Marked disc edema
Note buried vessels

Chronic edema Early gliosis and clumping of axoplasmic material


## INFTLTRATIVE OPTIC NEUROPATHY

progressive VA/VF/CV loss with/without alisc swelling
Unilateral/bilateral
Vitreous cells over ONH

- Assoc. systemic al
* sacroidosis
*leukemia
*metastatic neoplasia
(
leukemia/lymphoma/sacroidosis)
Infiltation is NOT Eompression



## Horner's Clinical Pearl



## What the ER Did



Optic Atrophy - missed over a decade by multiple docs

Patient History


## Initial MRIs



## Optic Atrophy and Age



When not to use the "rule of the pupil"



## Adult CN3 Palsies

## Management of CN3 Palsies

## IS PUPIL INVOLVED??

## YES: STAT <br> Neuroimaging/angiography

NO: Is it likely microvascular ?
Yes: Follow (?), image no imp. 3 mos
No: Image, angiography not needed
mpuranlivilumoriluil
ALWAYS GET ESR (SED RATE) OLDER PTS

BE CARJFUL WITH CN 6 ALSOI CN 6 Palsies in Adults




[^0]:    - Blindness
    - Debilitating headaches
    - Fatality

