

Radiology Malpractice: Meet the Elephant in the Reading Room

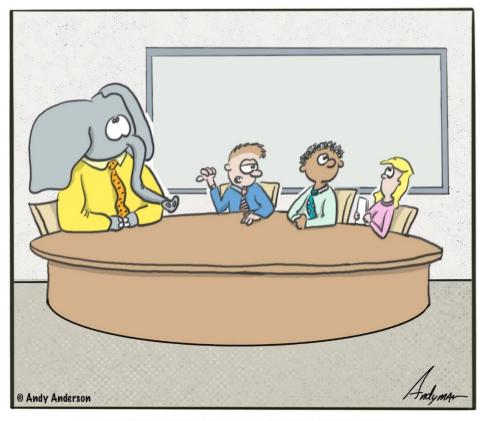
Richard Duszak, MD, FACR, FSIR, FRBMA

Professor and Chair Department of Radiology University of Mississippi School of Medicine

Virginia Radiological Society 2023

Elephant in the Reading Room?

The expression "**the elephant in the room**" (or "**the elephant in the living room**")^{[2][3]} is a metaphorical idiom in English for an important or enormous topic, question, or controversial issue that is obvious or that everyone knows about but no one mentions or wants to discuss because it makes at least some of them uncomfortable and is personally, socially, or politically embarrassing, controversial, inflammatory, or dangerous. The metaphorical elephant represents an obvious problem or difficult situation that people do not want to talk about. ^{[1][4][5]}



SO WE'RE NOT GOING TO DISCUSS IT?



Consulting and Other Financial Relationships

• Ethos Medical, Inc. (Advisor and Shareholder)

Fiduciary Relationships

Board of Chancellors, American College of Radiology

The opinions expressed herein are my own.

Disclosures

ONLINE COURSE AVAILABLE ON-DEMAND

Radiology Malpractice and Risk Management





ARRS Leonard Berlin Scholarship

Richard Duszak, MD

Emory University School of Medicine

Dr. Duszak aims to fill gaps in scholarship and teaching by developing a deeper and broader understanding of the contributors to and drivers of malpractice litigation and better disseminating such knowledge to reduce radiologists' collective malpractice exposure and improve the quality and value of radiology services to patients.

Learn more about the Leonard Berlin Scholarship





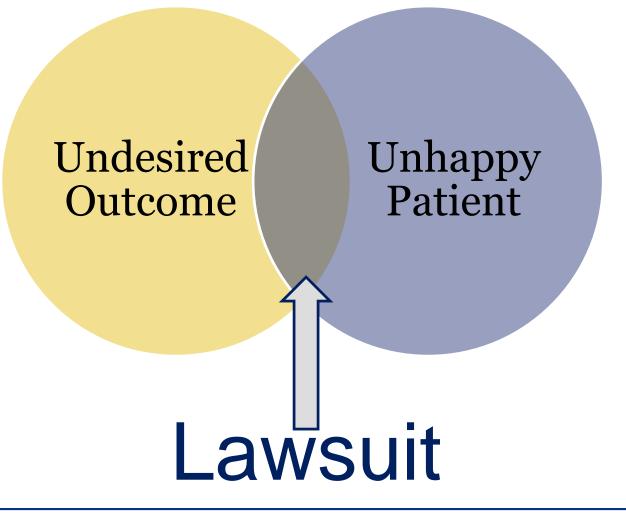
Agenda

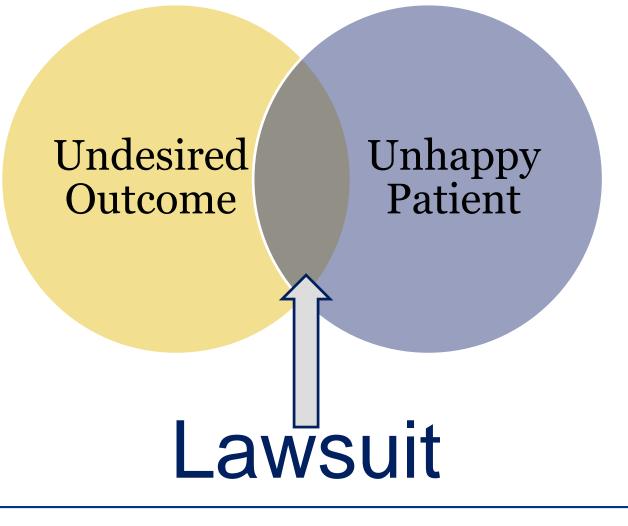
- Risk management
- Facts and figures
- Expert witnesses
- Preventing and defending "the miss"
- Physician wellness

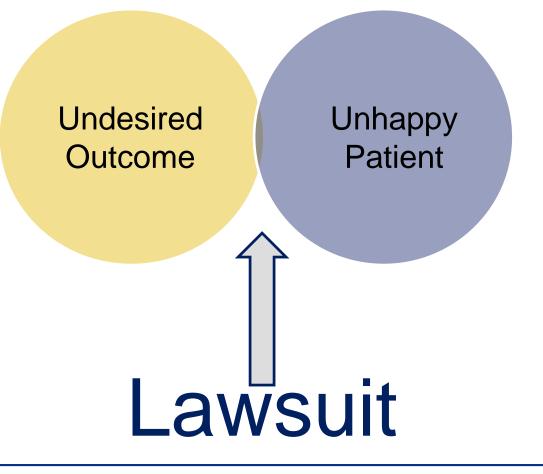
Why Lawsuits Occur

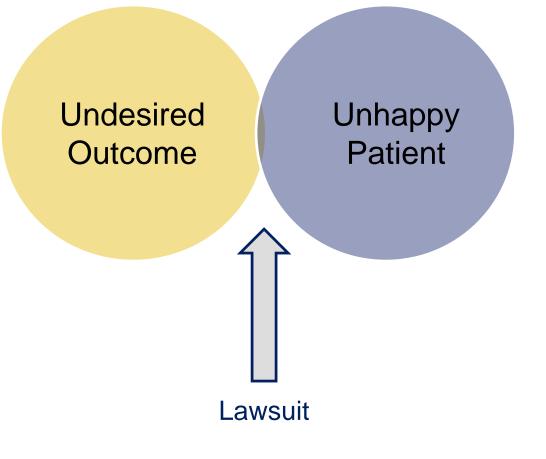


Why Lawsuits Occur







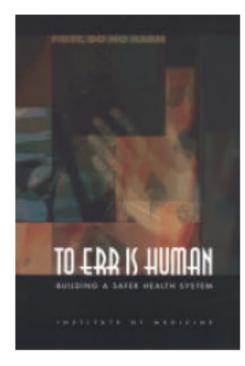




Public Scrutiny is High

TO ERR IS HUMAN: BUILDING A SAFER HEALTH SYSTEM

Health care in the United States is not as safe as it should be--and can be. At least 44,000 people, and perhaps as many as 98,000 people, die in hospitals each year as a result of medical errors that could have been prevented, according to estimates from two major studies. Even using the lower estimate, preventable medical errors in hospitals exceed attributable deaths to such feared threats as motor-vehicle wrecks, breast cancer, and AIDS.

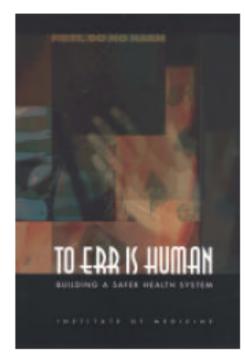




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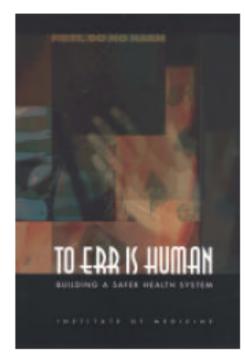




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"The equivalent of three jumbo jets crashing every single day."



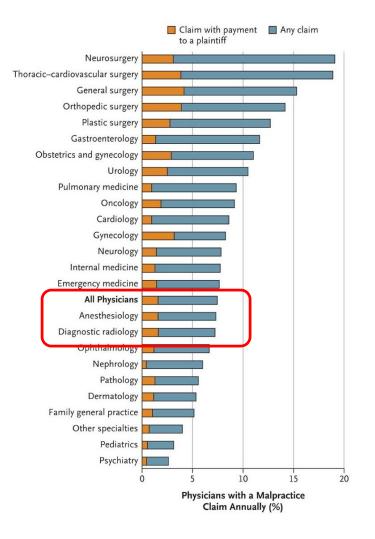
What Does this Mean for You?





Will You Be Sued?

Proportion of physicians facing a malpractice claim annually, according to specialty.



But That's Just One Year...

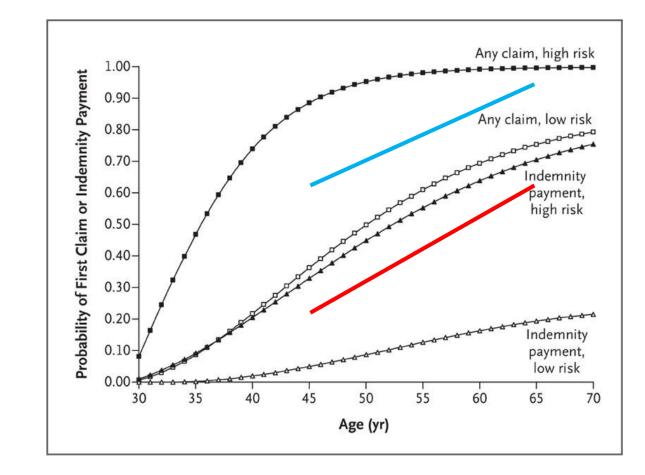
Cumulative Career Probability

Radiology EstimatesAge 45-65

• Age 45-00

Any claim:

- 57%-90% Payment
- 17%-53%



How Long Will It Last?

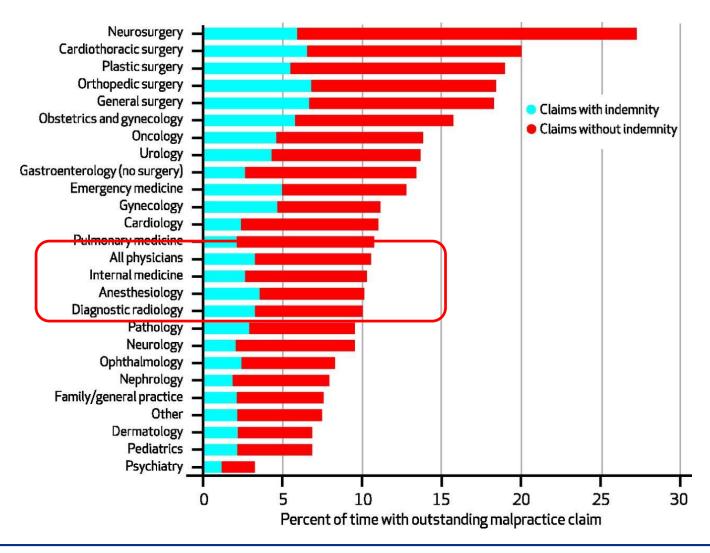
Mean time to resolution (per claim):

20.3 months

Mean Time To Resolution Of Malpractice Claims, By Claim Characteristics

	Mean time to resolution, months		
Characteristic	Unadjusted	Adjusted	
PHYSICIAN AGE (YEARS)			
30–39 (ref)	15.0	16.4	
40-49	19.5	20.4****	
50 or older	21.8	21.1****	
SPECIALTY			
Anesthesiology (ref)	16.5	19.5	
Cardiology	19.9	21.1	
Dermatology	12.6	18.4	
Diagnostic radiology	16.6	19.1	
Emergency medicine	16.7	15.4	
Family/general practice	18.0	20.6	
General surgery	18.1	20.1	
Gynecology	18.4	21.2	
Internal medicine	21.8	22.1**	
Nephrology	11.6	13.5****	
Neurology	15.7	17.9	
Neurosurgery	22.3	19.4	
Obstetrics	21.2	22.7***	
Oncology	17.3	15.1	
Ophthalmology	17.0	20.1	
Pathology	25.3	20.6	
Pediatrics	24.1	24.5**	
Plastic surgery	20.4	21.0	
Psychiatry	18.7	19.0	
Pulmonary medicine	16.5	16.3**	
Cardiothoracic surgery	16.9	17.2**	
Urology	19.4	22.1**	
Gastroenterology	19.1	20.1	
Orthopedic surgery	21.1	21.9**	
Other specialties	14.9	16.1****	

How Long Will It Last?



Getting Better?

	Rate of Paid Medical Malpractice Claims						
Speciality	1992-2014 (All Periods)	1992-1996 (Period 1)	1997-2002 (Period 2)	2003-2008 (Period 3)	2009-2014 (Period 4)	Difference In Mean Rate From Period 1 to Period 4	Percentage Change ^a
All specialties	14.1	20.1	17.5	13.2	8.9	-11.2	-55.7
Anesthesiology	11.7	15.4	13.7	10.8	8.6	-6.8	-44.2
Cardiology	15.9	15.6	18.0	16.6	13.5	-2.1	-13.5
Colon and rectal surgery	34.1	38.3	39.3	35.1	27.6	-10.7	-27.9
Dermatology	11.6	17.3	15.2	10.6	6.2	-11.1	-64.2
Emergency medicine	18.8	24.3	24.4	18.6	13.0	-11.3	-46.5
Family medicine	14.3	22.3	18.4	13.0	8.2	-14.1	-63.2
Gastroenterology	15.8	18.5	18.0	16.5	12.1	-6.4	-34.6
General practice	21.9	29.0	23.2	16.7	12.6	-16.4	-56.6
General surgery	30.0	34.4	34.3	29.9	22.2	-12.2	-35.5
Internal medicine	7.1	8.9	8.5	7.1	4.8	-4.1	-46.1
Neurology	9.5	13.1	12.0	9.4	5.8	-7.3	-55.7
Neurosurgery	53.1	66.0	61.2	53.9	37.3	-28.7	-43.5
Obstetrics and gynecology	42.5	57.6	51.5	40.0	25.9	-31.7	-55.0
Ophthalmology	15.5	18.9	18.1	15.7	10.2	-8.7	-46.0
Orthopedics	40.9	56.5	51.1	36.7	25.0	-31.5	-55.8
Otolaryngology	24.4	33.0	29.3	21.9	16.4	-16.6	-50.3
Pathology	6.9	9.1	8.4	6.1	4.5	-4.6	-50.5
Pediatrics	4.9	9.9	5.9	4.0	2.4	-7.5	-75.8
Plastic surgery	48.5	64.8	71.3	43.1	26.0	-38.8	-59.9
Psychlatry	4.3	7.0	5.0	3.4	2.5	-4.5	-64.3
Pulmonology	10.5	14.0	13.5	10.0	7.2	-6.8	-48.6
Radiology	18.9	22.3	22.7	18.7	13.7	-8.6	-38.6
Thoracic surgery	46.7	90.6	72.5	37.2	24.0	-66.6	-73.5
Urology	25.6	30.3	32.3	23.7	17.8	-12.5	-41.3
Other	7.1	11.3	8.6	6.7	4.6	-6.7	-59.3

* The percentage change was statistically significant for all specialties except cardiology (P = .15 for cardiology; P = .001 for colon and rectal surgery, and P < .001 for all other specialties).</p>



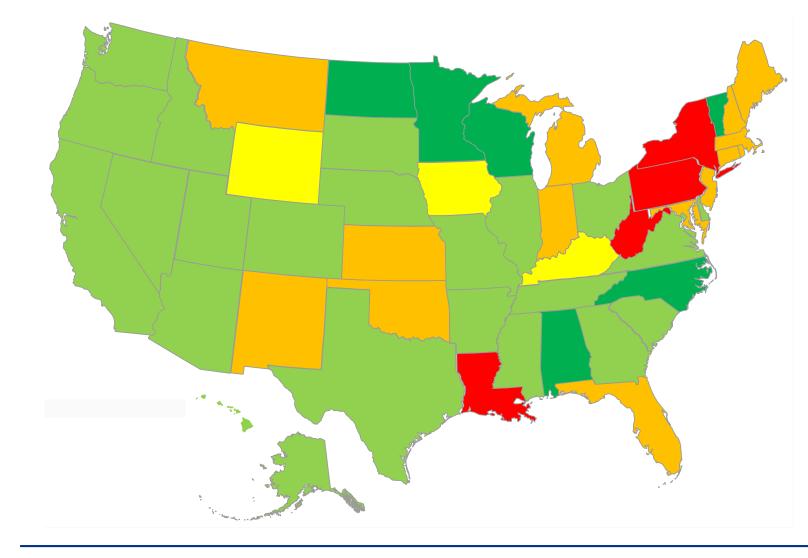
Or Worse?

	Mean Malpractice Payment, \$					Difference in Mean From Period 1 to	P Value for Difference
Speciality	1992-2014 (All Periods)	1992-1996 (Period 1)	1997-2002 (Period 2)	2003-2008 (Period 3)	2009-2014 (Period 4)	Period 4, \$ (%)	(Period 1 vs Period 4)
All specialties	329 565	286751	323 263	360 260	353 473	66 722 (23.3)	<.001
Anesthesiology	377 499	313 201	392 702	439 839	354 038	40 837 (13.0)	.02
Cardiology	365 029	337 605	367 949	376 668	368 350	30 745 (9.1)	.21
Colon and rectal surgery	337 976	283112	357682	348 264	345 438	62 326 (22.0)	.12
Dermatology	189 065	161 512	187 426	194 672	228966	67454 (41.8)	.007
Emergency medicine	309 411	249107	313 948	340 495	314 052	64945 (26.1)	<.001
Family medicine	290 698	237 669	293 272	319 030	319 382	81713 (34.4)	<.001
Gastroenterology	349 013	276128	338 441	374 369	390 538	114 410 (41.4)	<.001
General practice	231 622	218 350	239 537	246 261	235 781	17 431 (8.0)	.36
General surgery	298 625	266715	282 220	325 521	329 437	62 722 (23.5)	<.001
Internal medicine	318 071	280725	313 128	340 505	333 540	52 815 (18.8)	<.001
Neurology	431 049	405 348	419 079	445 823	459 857	54 509 (13.4)	.19
Neurosurgery	469 222	445 182	457 919	488 756	487 043	41861 (9.4)	.14
Obstetrics and gynecology	432 959	387 186	421 171	485 590	447 034	59848 (15.5)	<.001
Ophthalmology	244 039	208 766	239 441	256 043	283 275	74 509 (35.7)	<.001
Orthopedics	258 763	227154	255 000	281 487	283 979	56 825 (25.0)	<.001
Otolaryngology	282 822	239 823	282 124	313 848	304 347	64 524 (26.9)	<.001
Pathology	411 529	335 249	427 356	432 229	473 957	138 708 (41.4)	.005
Pediatrics	413 974	370 817	445 167	434 960	413 324	42 507 (11.5)	.25
Plastic surgery	189 2 19	169614	171 337	219 955	210 062	40 448 (23.8)	.05
Psychiatry	238 909	234220	215 446	257 020	269 870	35 650 (15.2)	.001
Pulmonology	348 066	328 593	345 025	354 323	363 177	34 584 (10.5)	<.001
Radiology	333 422	268 429	335 087	357 770	366 009	97 580 (36.4)	.26
Thoracic surgery	380 402	322 493	381230	407 339	423 929	101436 (31.5)	<.001
Urology	273 290	234757	234 503	318 484	330114	95 357 (40.6)	.001
Other	331 709	281417	324 508	354 585	367 363	85946 (30.5)	<.001

Table 3. Medical Malpractice Payment Amounts for 280 368 Paid Claims*



Location, Location, Location

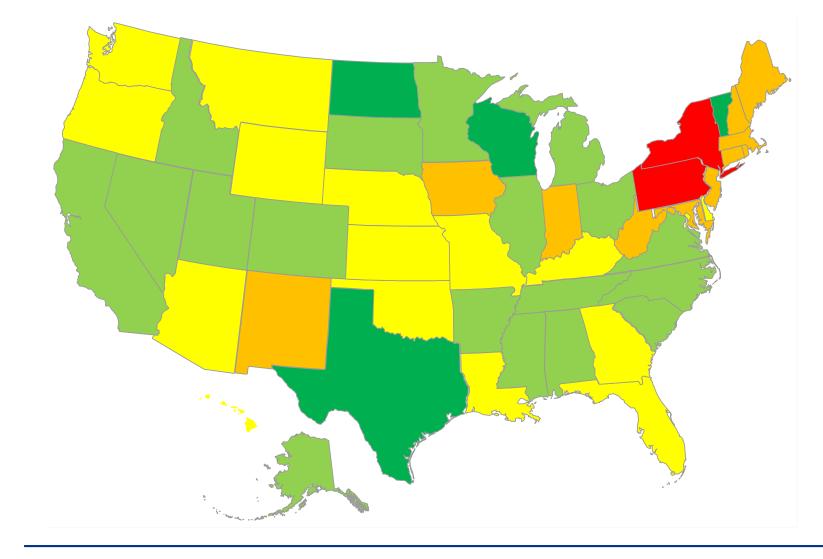




Counts per 100,000 population				
	0.00	1.25		
	1.25	2.50		
	2.50	3.00		
	3.00	5.00		
	5.00	7.00		

Based on Villalobos A et al. JACR 2021; 18: 34-41.

Location, Location, Location

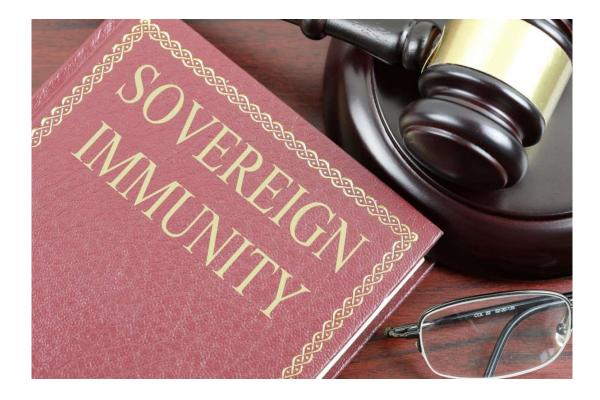




Dollars per 100,000 population				
	0	374,999		
	375,000	749,999		
	750,000	1,249,999		
	1,250,000	2,499,999		
	2,500,000	4,000,000		

Based on Villalobos A et al. JACR 2021; 18: 34-41.

Key Exceptions







Is Defensive Medicine Protective?

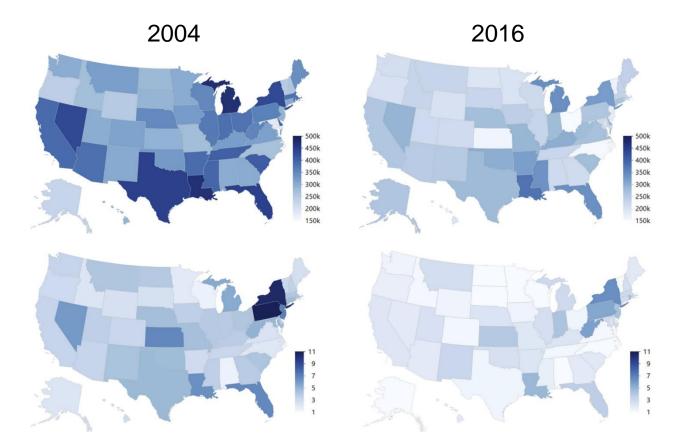
Table 3 | Estimated effect of increased physician spending on subsequent malpractice risk, within physician analysis

Dualuat
P value†
0.001
0.04
0.18
0.003
<0.001
<0.001
0.01

Table reports effect of increasing physician hospital spending from bottom fifth to top fifth on the probability a physician experiences an event that leads to a subsequent malpractice claim. The model was estimated with physician fixed effects (that is, a within physician analysis) and therefore accounted for the possibility that within a specialty and even after adjustment for patient case mix and diagnosis related group, unobserved patient characteristics may be associated with both higher use of healthcare resources by physicians and risk of malpractice claims. The model estimated the effect of physician spending on subsequent malpractice claims by studying changes in spending and malpractice claims within physicians over time. *Associated with increase in physician spending from bottom to top fifth. tTwo sided *t* tests.



Do Malpractice Claims Drive Imaging Utilization?



Imaging utilization rates per 100,000 beneficiaries.

Paid malpractice claims per 100,000 population.

Villalobos A et al. JACR 2021; 18: 34-41.

Do Malpractice Claims Drive Imaging Utilization?

Are paid malpractice claims associated with a higher utilization of advanced medical imaging? Each 1% increase in average paid malpractice claims associated with Positive associations between paid malpractice claims and 0.20% **Explore state level relationships** advanced Medicare imaging between the incidence and payout a subsequent utilization support the amounts for medical • 0.20% increase in contention that US physicians malpractice claims and Medicare advanced imaging imaging utilization and spending use medical imaging as a utilization. across the United States. defensive medicine strategy.

JACR VISUAL ABSTRACT

Do Malpractice Claims Drive Imaging Utilization?

Are paid malpractice claims associated with a higher utilization of advanced medical imaging?					
<image/> <text></text>	<image/> <image/> <section-header><section-header></section-header></section-header>	Positive associations between paid malpractice claims and advanced Medicare imaging utilization support the contention that US physicians use medical imaging as a defensive medicine strategy.			

JACR VISUAL ABSTRACT

- Duty
- Breach
- Causation
- Damages
- A meritorious claim should require all four

- Duty
 - Exists when a health care entity or provider undertakes care or treatment of a patient

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- Breach
 - Provider failed to conform to the relevant standard of care
- Causation
 - That breach was a proximate cause of the injury
- Damages
 - Without damages, there is no basis for judgment, regardless of negligence



The Standard of Care

- Definition varies by jurisdiction, but typically relate to behavior of an "ordinary," "reasonable," or "prudent" physician
- "...that course of action which a reasonably prudent [professional] in the defendant's specialty would have taken under the same or similar circumstances"

Who Determines the Standard of Care?

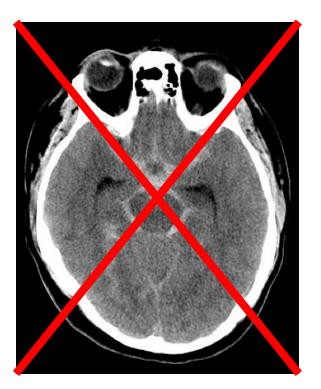
The jury does

Juries are Unpredictable

- Worried about a brain tumor, Plaintiff Judith Richardson Haimes underwent a brain CT examination at Temple University Hospital
- The jury rendered a verdict of \$988,000 against radiologist Dr. Judith Hart and Temple University Hospital

Court of Common Pleas of Pennsylvania, Philadelphia County. Judith HAIMES, Plaintiff, v. TEMPLE UNIVERSITY HOSPITAL, Defendant, No. 4408. Decided Aug. 7, 1986.

Juries are Unpredictable



Los Angeles Times

Says Her Powers Vanished : 'Psychic' Awarded \$988,000 in Hospital CAT-Scan Lawsuit

March 30, 1986 | Associated Press

PHILADELPHIA — A woman who claimed a CAT scan she received at a hospital in 1976 made her unable to use her psychic powers was awarded \$988,000 by a jury last week.

The eight-member Common Pleas Court jury deliberated about 45 minutes before awarding Judith Richardson Haimes \$600,000 plus \$388,000 in interest on her malpractice claim against Temple University Hospital.

Who Determines the Standard of Care?

- The jury does
- Based on the opinions of dueling experts

 A: Are you saying, Doctor, that every time a radiologist misses a diagnosis on an X ray, he or she is guilty of malpractice?
 W: Yes.





Radiology Expert Witness Considerations



ACR Practice Parameter on the Physician Expert Witness in Radiology and Radiation Oncology, 2017

The American College of Radiology, with more than 82,300 members, is the principal organization of industrials radio or proclematic and child movied prystick in the United States. The Orlings is a magnetic preferenced arrivity where privary persons are in solvents by summe of mobile increase rabition success to the ratiant story for exploration of a story of the methy of rabitions and resources radiustic distances for nieligiste nie ier onedege e weiteelij wiej nie ondpromo prociseng weiter, preferinse felier The American College of Recipions will periodically others new periods are able and inductional candidate in reducing construction in help solverus

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Revised 2017 (Resolution 9)4

ACR PRACTICE PARAMETER ON THE PHYSICIAN EXPERT WITNESS IN RADIOLOGY AND RADIATION ONCOLOGY

PREAMBLE

This document is an advectional tool dasigned to use in practitioners in providing appropriate radiologic env for patients. Practice Promenets and Technical Standards are not inflexible nulles or requirements of practice and are not intendule are obtained by its water is tachild as hapel used of earls. The theme reasons and house of firsh below, the Arnoicae College of Mathilege are calculated and are shown as earlier against activity and the of these descents in largest on a tength the calculated leader of participants are called and not prefere are of these descents in largest on a tength the calculated leaders of participants are called and not prefere.

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The practice of medicine involves not only the science, but also the art of dealing with the prevention, diagnosi The pixots of meta-se softent set output the stands, put and the sit of remains with the prevention, anglosds, and the stand set of the stand set of the stands of the stand set of the stand set of the stand stands, set of the stand Respective A stand set of the stand set of the

Jaro Medical States and Jaro States: A Jarofine Data in June Barri of Sharana, N.W.M., Gene 2018: Dee Sectors Cost relates to Hol an Rev.C.T. Technical Dataset for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the rest in the ACT Technical Datasets for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the rest in the ACT Technical Datasets for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the rest in the ACT Technical Datasets for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the ACT Technical Datasets for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the ACT Technical Datasets for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the ACT Technical Datasets for Management of the Society Restation in Proceedings, Proceedings, Berlind 1905; new surfaced for the Society Restation of the Society Restation of the Society Restation of Technical Datasets for the ACT Technical Datasets for Management of the Society Restation of the Society Resta perform theoremotic procedures in Lafe of the standard's stated purpose that ACR standards are educational tools and not intended to establish a lega - annul of see See des Stelleys: Varianze ASPAT Die Varia App 7280 when it a consuming opinion that Canti and the "public of device" App 7280 when it a consuming opinion that Canti and the "public of device" are the public of a pub Expart Witness Radiology and RO PRACIECE PARAMETER

1 INTRODUCTION

For the purpose of this practice parameter, radiology is defined as diagnostic radiology, interventional radiology, macher methians, radiation encodegy, and methical physics. For the scope of this practice parameter, radiologies and radiology one-objective interdex interprets fragmond radiology and travelational radiology on solicity in machine physicans, and radiotoo encodegies. For recolated physicite, places are the ALE-AAM Director Parameter on the largered Vience Induced Press, places are the ALE and Parameter of the ALE-AAM Director Parameter on the largered Vience Induced Press, places are the ALE and Parameter of the ALE and Parameter on the largered Vience Induced Parameter on the science of the press of the press of the science of the ALE and Parameter on the science of the ALE and Parameter of the A

Reladencies and induction standings are frequently called upon restance as usefued expert witnesses is a variary of legal proceedings that may patient standing and proteins personal patients protonal bibly of legal proceedings that may patient standing and proteins personal patients proton displays includes and the next set of legal standing or sit stand. The patient here proceedings and the willingness on give arrows testimory by legalants or sit stand. The patient here proceedings and above characterization of the standing of legal standing of the standing of the standing standing standing standing of the standing Notes soction after the references

Modical expert witness testimory is indicated in any logal proceeding in which the court needs an objective physician who is not a party to the case, has no prevent interest in the onteons of the case, and has expertise in the matter at hand to high explain the inner.

IL QUALIFICATIONS AND RESPONSIBILITIES OF THE EXPERT WITNESS

The expert witness should be a physician with the following qualification

inductive engineering any approache state law, licensure and active engagement at the time of t unductivities and for a reasonable period of time in the practice of the vadiologic specially or subspecie to the to totanzy. Unless otherwise stimulated by applicable state law, licensure and active encorrenent at the time of the inciden

Certification in Radiology, Diagnorite Radiology, Interventional Itatiology/Diagnostic Radiology (REDR), Thorapoutic Radiology, Neukari Radiology, or Radiation Ornology by the Amarian Denvel of Radiolyge, Neuraina Ostepaper, Ber American Bartol of Neukari Nadiation. Ale Royal College of Hystokiam and Sarguert of Chanak, or the Collage der Malatem da Quible. Untriopation in Mantenarusso of Certification MNAC19 by the okcast and and, if they have a train limited boat artification.

Education, training, and practical experience, as well as current knowledge and skill, concorning the subject matter of the case, including in a metical liability case the relevant standard of case.

Should the physician defendant be required by federal or state statute to fulfill certain educational or practice uppriors: requirements, the expat where should also need these same requirements.

III. REQUISITES OF AN EXPERT WITNESS

A. The role of the exact witness is to belo the fact finder analyze the issues in disrute accessary to decide the For the control of the sequence is expected and should be shown and the legal wave and expected and should be shown and the legal issues being trick, this may include an opinion should be shown and the legal issues being trick, this may include an opinion should a disclassful detection training and capacitance the relevant instance of a gravitational finance of a gra the adequacy of the technical equipment used.

PRACTICE PARAMETER.

Expert Witness Radiology and RO

In a modical fiability case, the coput opinion should be based on all relevant clinical and radiatogic information In a modula having case, the equal regiment should be based on all tock-and densities and radiologic inferreduce available at the low of the weak-time smaller version. Future, and module of manging statistic parformed after the unicolar generality should be to void to founding the angle particular structure in the and every off to a word being influence of by hindight and the times fails using the Machinen to invitate bias have been well statistic in the futures [1]. It should be recognized that physicans with difficult does not regretise any right protocorbitable in theoret of every structure and the physicans with difficult does not regretise any right protocorbitable in theoret of every

B. Recommended Guidelines of Conduct for the Radiologist and Radiation Oncologist Expert Witne

- 1. Although the nature of legal proceedings is advarsarial, the expert witness must be as impartial and
- anyour as possible, as possible, as the expect witness should be familiar with the relevant standard of ears. Care must be taken to divinguish between the reports a personal opinion and the standard of care. The exact witness should be view all relevant material and information is not be assure an informed and and the standard standard and the standard standard and the standard stand
- fair equinica. Integes and other relevant materials reviewed by the expert witness should be the original integes and other relevant materials used by the interpreting or intating physician in the case. If original images or other relevant materials are not available, good-quality capies of the originals may be acceptable. In cases involving images originally interpreted using a picture archiving and communication rotom (PACS), the expart witness review should comider the original algorithm and format (PACS or
- accessing the structure inspire the structure project the structure of the engine large structure are sense that courses the structure of the structure structure provides and the structure structure structure are structure and the structure st

An individual holding an official cargoiry with the College who testifies in a legal proceeding anyt exercis is distinguish hits can his or her personal opinions and the policy positions of the College (see Note 2 that annears in the Notes section after the references).

The expert witness can be held accountable for statements made during a least proceeding. Expert witness testimony may be reviewed and evaluated by medical boards and professional societies

ACKNOWLEDGEMENTS

This gractice parameter was revised according to the process described maler the leading The Process for Dendoping WTI Practice Personant and Technical Mandavis on the WCN websile (<u>there</u>) was an original production of the Committee on Practice Parameters – General Strate, Junespace and/or Forul Practice of the ACR Contactions on General, Static Lineargeney and/or Revel Paratice, and the Consultive on Practice Parameters – Backwise Oscology of the ACR Consults/set of Reddation Coverlage.

Reviewing Committee Candice A. Johnstone, MD, Chair Alan C. Hartford, MD, PhD, FACR Jared R. Robbies, MD Jeffrey D. Robinson, MD, MBA Nikhil Thaker, MD

PRACTICE PARAMETER Expart Witness Radiology and RO 4. Durand DJ, Roburtson CF, Agarwal G, et al. Expert witness blinding strategies to mitigate bias in ratiology realpractice cares: a comprehensive weight of the bitrature. Journal of the Assertant College of Haddeley JACR 2014;11(9):868-873. Berlin L. Can a radiologist be compelled to testify as an expert witness? 4.18 /m 3 Rostrigunal.

Additional articles that are not cited in the document but that the committee recommends for further reading on

- Lister 1, Lindram JD, Shulia WJ, Gra A. Wan data caper trainer barreney conclusts a violation of the ACH Good William 2020 (2020) 222-283.
 Backa L. Baung Bale values: AJ, 2020 (2012) 2238.
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Phys. 2026 JuSh 5404.
Solice FE, Bay, Barda S, Sotzen M, Fellov AJ, Expert witness hattinony guidelines: identifying arcuns for improvement. Octomography and end steels nergers: effects) anemal of Johanson Academy of Octoempelay. Neural and ved steepers 2015;192(2):2017-2010.
Wallners E, Ellies R, Morrick G, Borcha P, Rickel D, Malpenetice in mediation emology: redefining the role of the moderal argument based in Sange 10:40-400.

VOTES 'These practice parameters are not meant to apply to parcipitent witnesses such as a doctor who is a party to the case. However, in some jurisdictions (California, for example) a different datter can be depend both as a different and in an arguint [5].

The polition of the Collage are a metter of public record and, if relevant may be appropriately cited in testimony. Ann, the fact that is individual bable an offering position with the College more be an expected on the college of the position with the bable an efficient operative position with the college more beam of the bable and efficient operative position with the College more the college of the testimony expression for the presence three on the presence of the position with the college more the testimony expression for an improvement three and the presence of the testimony expression for the presence of the sectimony expression for an improvement three and the presence of the testimony expression for an improvement to position with the college more the section of the position of the testimony expression for an improvement the section of the position of the section of the position of the section of the position of the position of the section of the position deposition or trial stationery that he or also in speaking as a representative of the College or is testifying to the views of the College on the merics of a particular cose. (1987, 1997, 2007 - ACR Resolution 36-y).

"Practice parameters and technical standards are published annually with an effective date of October 1 in the practice parameters in a sense of a sense of the provider of the product of the p

ACR Practice Parameter on the Physician Expert Witness in Radiology and Radiation Oncology, 2017.

Davidgement Chronology for this Practice Promoter 2002 (Resolution 42) Rovined 2007 (Resolution 41) Rovined 2012 (Resolution 38) Amended 2014 (Resolution 39) Rovined 2012 (Resolution 39) Revised 2017 (Resolution 9) Amended 2018 (Resolution 44)

PRACTICE PARAMETER

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Expart Witness Radiology and NO

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PRACTICE PARAMETER

Expert Witness Radiology and RO

Radiology Experts Should Avoid Bias

- "In a medical liability case, the expert opinion should be based on all relevant clinical and radiologic information available at the time of the incident now under review."
- "Information, facts, and results of imaging studies performed after the incident generally should not be used to formulate an opinion."

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This is Not Science!

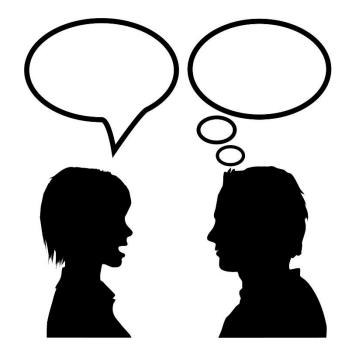
- Scientists ideally focus solely on the evidence without the influence of the parties' goals.
- Attorneys work in an adversarial system and look to sway the trier of fact with the most articulate, understandable, presentable, and persuasive expert, rather than the best scientist.

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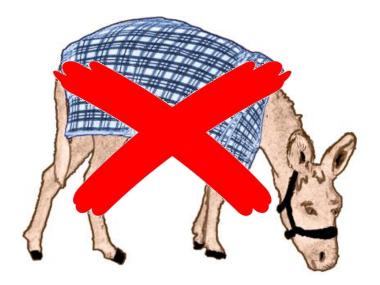
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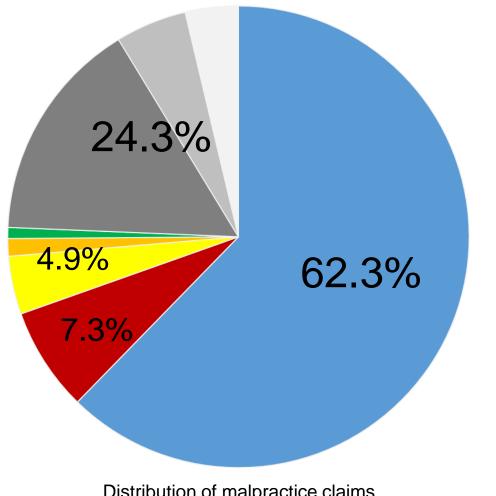


Where to Watch Out





Allegations Against 8,401 Radiologists



Distribution of malpractice claims against radiologists, by allegation (n=4,793)

Failure to diagnose

- Procedural complication
- Failure to communicate
- Failure to recommend tests
- Contrast agent reaction
- 🔳 Unknown
- Negligence
- Peripheral role

For More Information...

Radiology Malpractice and Risk Management

This course discusses the current medical malpractice environment, focusing on issues facing both diagnostic and interventional radiologists and also highlights risk management opportunities for all within radiology. Course preparation and production was funded by the ARRS Berlin Scholarship.

Earn credit at your own pace through June 4, 2023 and continue to access your videos until June 5,2030. See below for learning outcomes and a list of modules.



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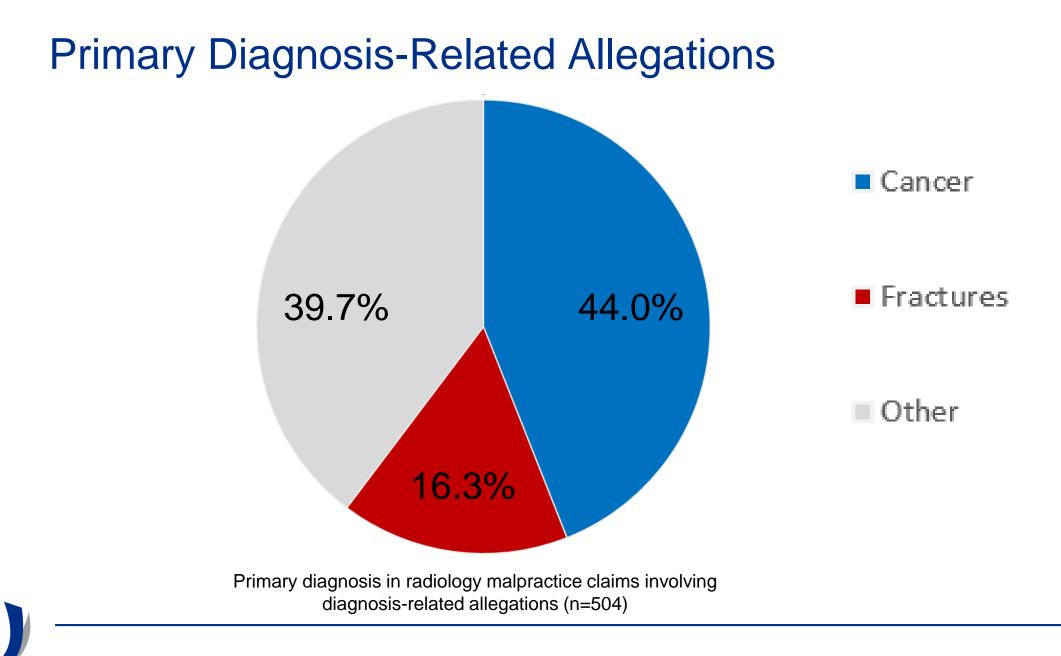
Separating Eact from Eiction

Module 2

•Perception and Interpretation: A "Miss" Does Not Always Mean Malpractice

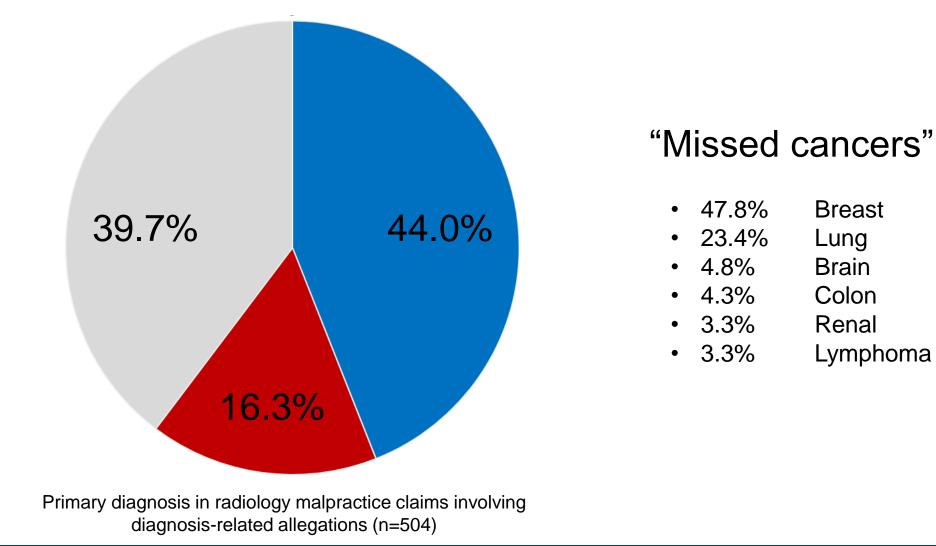
would 5

Mitigating Malpractice Risk through Improved Communication
Module 4
Informed Consent and Complications: Malpractice Considerations
Module 5
The Expert Witness: Friend, Foe, or You?
Module 6
You've Been Named in a Lawsuit: What to Expect



Harvey HB et al. JACR 2016; 13: 124-130.

Primary Diagnosis-Related Allegations



"Misses" are Actually Pretty Common

Of 2,145 radiographic examinations each interpreted by two radiologists, diagnostic error rates varied by body region and ranged from 15.9% to 38.0%. Table I: Error Rates by Type of Examination

	Original	Сору	Differ- ence	No. of Cases
Chest Skull Body surveys Hips and pelvis Extremities Vascular Gastrointestinal Abdomen Biliary Excretory urography- genitourinary Other	33.2 35.0 26.2 35.7 31.0 37.5 25.5 33.1 15.9 28.8 38.0	37.1 38.7 29.8 38.5 33.6 39.3 26.2 33.1 15.9 27.7 34.6	-3.9 -3.7 -3.6 -2.8 -2.6 -1.8 -0.7 0.0 0.0 1.1 3.4	536 137 84 70 375 112 145 130 69 94 29

These Cases are Tough to Defend

Malpractice Issues in Radiology

Defending the "Missed" Radiographic Diagnosis

Leonard Berlin¹

Berlin L. AJR 2001; 176: 317-322.

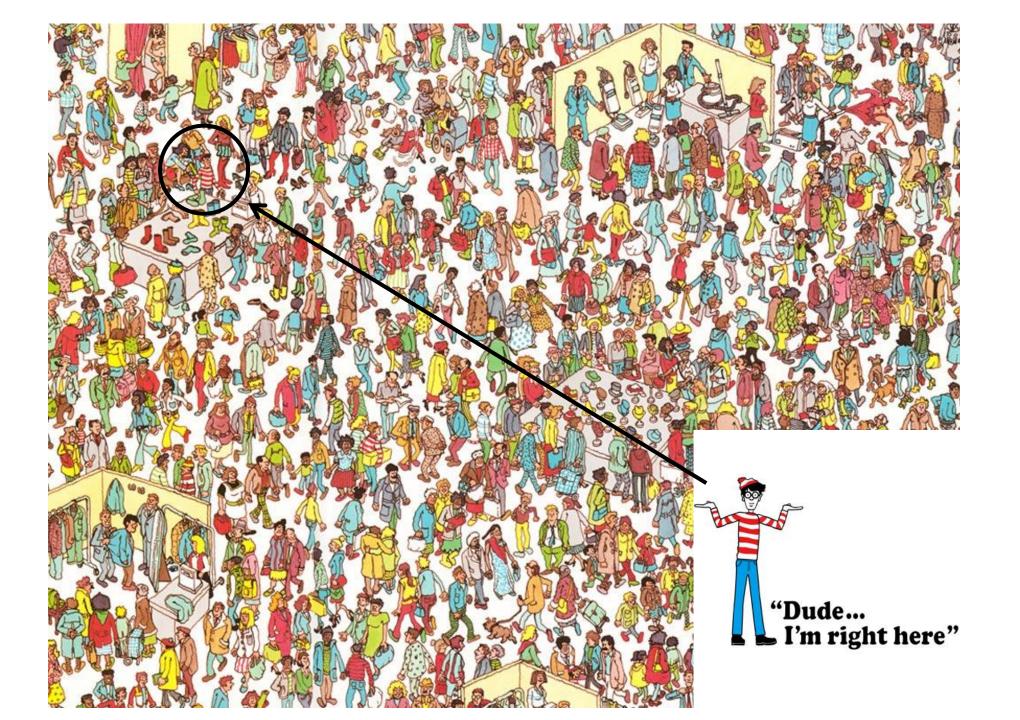
The Answer is On the Film

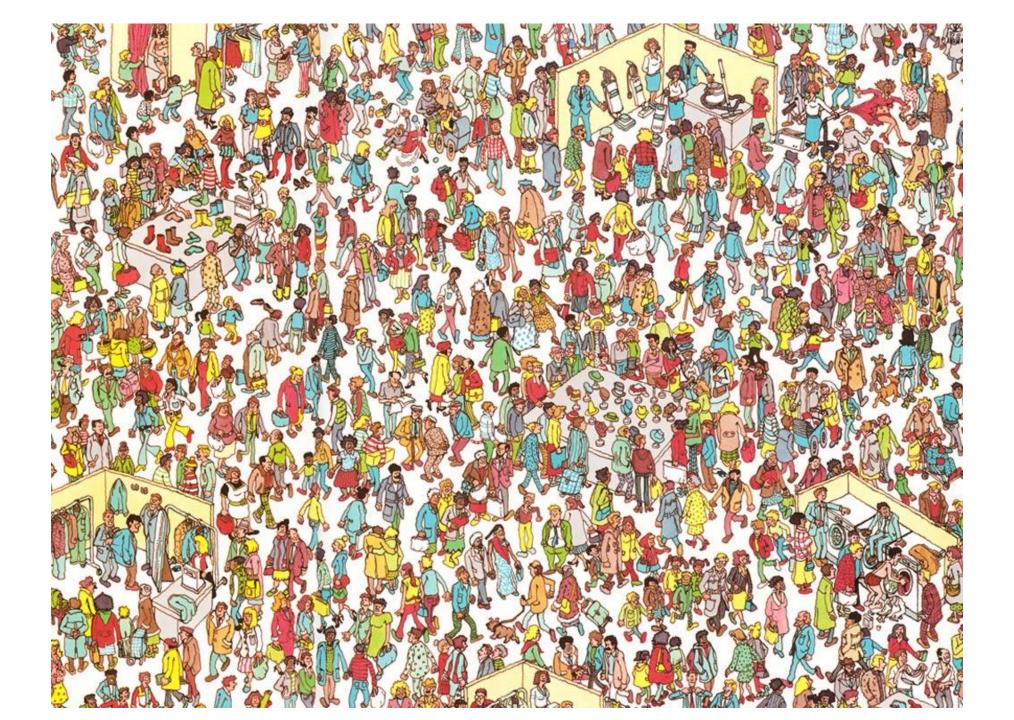


www.clipartpanda.com

Hindsight Bias

"...the tendency for people with knowledge of the actual outcome of a case to believe falsely that they would have predicted the outcome."





Where's Waldo?







Hindsight Bias in Lung Cancer Detection

- Cooperative Early Lung Cancer Group (NCI)
- 4,618 high risk patients underwent chest radiography at 4month intervals over 6 years
- Interpreted by academic thoracic radiologists as lung cancer screening studies
- 92 lung cancers identified
- 85 "had their cancer detected only by chest radiography"

Hindsight Bias in Lung Cancer Detection

- Once a cancer was diagnosed, old studies were reviewed
- Most neoplasms were now—in retrospect—identifiable
 - Peripheral tumors: 90%
 - Perihilar tumors: 75%

Satisfaction of Search

The detection of one abnormality interferes with that of others



Can you find 17 differences?

Missing Flag, Princess Crown, Princess Hands in Pockets, Princess Missing Ball, Turtle with Ball, Castle Wall Missing Windows, Bird with Stick, Rabbit with Sunglasses, Pool missing Ripples, Beaver's Hammer Upside Down, Duck with Hat, Beach Ball Missing Stripes, Prince's Bathing Suit, Pool Tent with Extra Stripes, Pool Tent Doors Open, Scuba Mask Missing, Beaver Cape Tied Differently

Satisfaction of Search

- Skeletal radiography
- 15 cases with one abnormality and 15 cases with two or more abnormalities
- Single abnormality case average detection:
 - 11.25 **75%**
- Multiple abnormality case average detection:
 - 11.72 for 1st finding
 - 6.12 for 2nd and 3rd findings

 $78\% \rightarrow 41\%$

Satisfaction of Search

Don't get blinded by pathology!



Errors are More Likely When Rushed

Average rate of "major misses":

- 10.0% at "normal speed"
- 26.6% at "fast speed"

			Major	Major
	Normal	Fast	Miss at	Miss a
	Reporting	Reporting	Normal	Fast
	Time	Time	Speed	Speed
Radiologist	(min: sec)	(min: sec)	(%)	(%)
1	9:00	4: 30	8.3	33
2	9: 36	4: 48	8.3	25
3	5:00	2: 30	25	16.6
4	15: 20	7:40	8.3	41.6
5	11: 52	5: 56	0	16.6
Mean or	10: 9	5: 5	10	26.6
average				

Volume Carries Risk

Malpractice Issues in Radiology

Liability of Interpreting Too Many Radiographs

Once discovery proceedings commenced, the court approved a demand by the plaintiff's attorney that the defendant radiologist disclose the number of cases interpreted by the defendant radiologist on the day during which the radiologist had interpreted the plaintiff's mammography. The number was 162. An expert radiologist retained by the plaintiff testified in deposition that the "national average" number of radiologic procedures interpreted by a radiologist in 1 day was 50 and that any radiologist whose daily workload exceeded 100 procedures a day was breaching the standard of care. The expert then asserted that by interpreting 162 cases in 1 day, a radiologist would be exceeding the "national average by three times" and would therefore be conducting himself in a "reckless and wanton" manner.

This is Not Just Hypothetical

\$2M settlement after subpoena of radiologist's keystrokes finds lax CT reading

Marty Stempniak | January 20, 2020 | Care Delivery



"If we were to assume that he did nothing but open them up and immediately start reading them, he spent half a second looking at each image. That's two images per second, and that is insanity."

Lawyers recently extracted a \$2 million settlement from one Dallas-based hospital chain after a subpoena proved that radiologist Steven Fuhr spent less than a second interpreting CT images.



https://www.radiologybusiness.com/topics/care-delivery/settlement-subpoena-radiologist-ct-reading

Physician Wellness

"Although patients are the first and obvious victims of medical mistakes, doctors are wounded by the same errors: they are the second victims."



Second Victim Effect

 Malpractice litigation contributes to physician self-doubt, burnout, and depression.





Balch CM, et al. J Am Coll Surg 2011; 213:657-667 Martin CA, et al. South Med J 1991; 84:1300-1304 Rodriguez RM, et al. Acad Emerg Med 2007; 14:569-573 https://www.physicianleaders.org/news/doctors-deal-with-high-suicide-rate-ranks

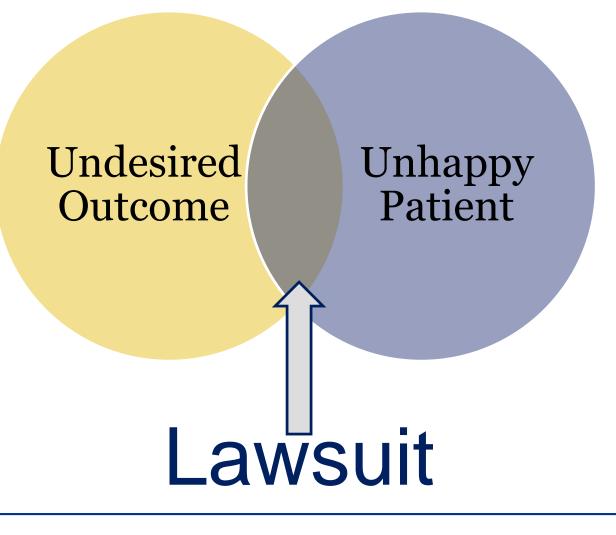
Second Victim Effect by Proxy

 The specter of malpractice litigation influences physicians' emotions, thinking, and behavior.

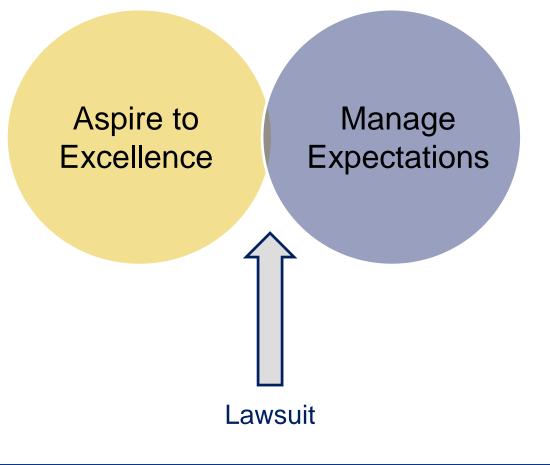




Take Home



Take Home



Thank You!

rduszak@umc.edu



