



JANUARY 30 LOEWS CORONADO BAY SAN DIEGO, CALIFORNIA



PROVIDED BY ASSOCIATION OF UNIVERSITY PROFESSORS OF OPHTHALMOLOGY PROGRAM DIRECTORS COUNCIL Meeting Syllabus



Educating the Educators 2013

The Association of University Professors of Ophthalmology's Program Directors Council would like to welcome you to the 10th annual Educating the Educator's conference being held in San Diego, California.

The free paper section of the conference had a few firsts this year. Due to the numerous quality submissions, the presentations were selected by a review committee. An online submission process was instituted to facilitate submission and review of abstracts. We hope these efforts will enhance the quality of the meeting program and further encourage medical education research in ophthalmology.

In addition, this year's program was organized after careful review of 2012 conference evaluations. We are excited to have Luanne Thorndyke, MD from the University of Massachusetts talk to us about mentorship and its impact on our career development. Our colleagues from Emory,

Paul Pruett, MD and Blaine Cribbs, MD will be giving us an insider view of the role played by the Associate Program Director in an Ophthalmology residency program.

Last but not least, we are looking forward to having our close partners, the program coordinators, join us at this year's meeting. Because they play such a big role in the success of our programs, we have asked Ms. Susan Bony, coordinator for the Oregon Health and Science University program to speak to us about her role and the development of the new program coordinator's group.

We hope you will join us for the social immediately following the meeting.

Muyman Shaliz

Laura L. Wayman, MD

Shahzad Mian, MD

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MEETING SUPPORT

Educating the Educators is supported by an independent medical education grant from Alcon Laboratories, Inc.

The Educating the Educators Reception is sponsored by the San Francisco Matching Program.

Educating the Educators 2013 Program

Wednesday, January 30		
7:30 am – 8:00 am	Registration & Continental Breakfa	ast
8:00 am – 8:05 am	Welcome and Announcements – La	aura L. Wayman, MD
8:05 am – 8:08 am	Welcome New Program Directors -	- Andreas K. Lauer, MD
8:08 am – 8:15 am	The First Decade of Educating the	Educators in Ophthalmology – Andreas K. Lauer, MD
8:15 am – 8:25 am	San Francisco Match Program Upd	ate – Dennis S. Thomatos
8:25 am – 9:55 am	Free Papers (Part I)	
	8:25 am – 8:40 am	iLearn: An Educational Experiment in Teaching Life-Long Learning – Timothy W. Olsen, MD
	8:40 am – 8:55 am	Emergency Department and Inpatient Assessment of Basic Eye Function Prior to Ophthalmology Consultation – Ryan K. Wong, MD and John J. Huang, MD
	8:55 am – 9:10 am	Current Advocacy Education in Ophthalmology Residency Programs – Kimberly Crowder, MD
	9:10 am – 9:25 am	Introducing a Mental Skills Curriculum into an Ophthalmology Residency: A Pilot Program – Travis Frazier, MD
	9:25 am – 9:40 am	Education and Training of Referring Physicians Decreases At-Home Call Demand – Léon-Paul Noël, MD and Abhishek Nemani, MD
	9:40 am – 9:55 am	Transforming Existing Resident Performance Data Into Actionable EPAs – Jonathan M. Skarie, MD, PhD
9:55 am – 10:15 am	Break	
10:15 am – 12:00 pm	Free Papers (Part II)	
	10:15 am – 10:30 am	Incorporating Kitaro in the Wet Lab Curriculum – Yousuf M. Khalifa, MD
	10:30 am – 10:45 am	A Residency Program with Online Teaching: An Exercise in Social Entrepreneurship – Ramesh Ayyala, MD, FRCS
	10:45 am – 11:00 am	Outcomes of Cataract Extraction in Eyes with 20/400 or Worse Cataracts Stratified by Level of Training – Sandra M. Johnson, MD and Eric Areiter
	11:00 am – 11:15 am	Resident Conformance with the AAO PPP for Primary Open Angle Glaucoma – Pratap Challa, MD
	11:15 am – 11:30 am	Residents as Educators – A Novel Approach – Michelle Diaz, MD and Sandeep Grover, MD
	11:30 am – 11:45 am	Effects of an Intensive Review Course on Residents and Fellows – Mark Lelli
	11:45 am – 12:00 pm	Developing a Resident Research Handbook – Rachelle Rebong, MD, Anne Fung, MD and Susan Day, MD
12:00 pm – 1:30 pm	Lunch (included)	
1:30 pm – 2:30 pm	Role of the Residency Education Coordinator, Casey Eye Institute	n Coordinator in an Ophthalmology Training Program – Susan Bony, Residency Program
	Role of the Associate Program Education; Blaine Cribbs, MD, Asso	Director in an Ophthalmology Training Program – Paul Pruett, MD, Director of Resident ociate Director of Resident Education, Emory Eye Institute
2:30 pm – 2:45 pm	Break	
2:45 pm – 4:15 pm	Building a Mentoring Relations Professor of Medicine, University of	hip that Matters: Tools for Success – Luanne Thorndyke, MD, Vice Provost for Faculty Affairs, of Massachusetts School of Medicine
4:15 pm – 4:30 pm	Wrap-Up & Adjournment	
5:00 pm – 6:30 pm	Reception – Sponsored by San Fran	ncisco Match

iLearn: An Educational Experiment in Teaching Life-long Learning

TIMOTHY W. OLSEN MD

BACKGROUND:

Traditional lectures to residents in training serve a valuable purpose. For example: to review evidence-based treatments, to demonstrate a classic diseasespecific presentation and to review small case series or research topics. Socratic method are commonly used to engage the learners and also to engender more independent thought on a specific topic.

PURPOSE:

The goal of iLearn is to encourage life-long learning through continuous reading and analysis of the ophthalmologic literature. Resident physicians are required to attend a monthly, one-hour iLearn session. During the first half hour, the facilitator uses traditional teaching methods (above). During the second half hour, a resident physician is randomly selected to present an important article that she/he has read in the past 2 months, that may 1) change or alter the pre-existing standard of care, 2) present new and informative data on patient management, 3) present a topic, therapy, or issue that is important for the residency class.

METHODS:

The iLearn methodology has been implemented over the past 4.5 years at Emory. The initial half-hour session is determined by needs of the teaching program, are delivered in conjunction with the pre-arranged lecture series, Socratic in nature, and enable feedback on the learning aspects of the residency program. Each year, there has been positive feedback for this course, and the methodologies for the resident-led half hour have evolved. Initially, the residents could present a publication on any topic, and had no limits on the publication date of the article. However, we found that a 2 month window for presenting the resident publication encouraged continuos reading. Since only one or two (of 18 residents) presented randomly each month, the residents had to continuously keep new material ready and available for presentation. The random nature of the resident selection encouraged to be both present and prepared. Finally, audience response systems were used to anonymously analyze the value of the presentation to the residency team.

CONCLUSIONS:

The iLearn method is an active learning methodology, developed to encourage life-long learning skills and discipline during the residency program. The random, resident lead half of the lecture encourages continuous reading of the opthalmologic literature, screening the literature to highlight resident-led presentations of more relevant articles, and involves an anonymous peer-review process with instant feedback for the presenter.























Preparing to Present

• Must read consistently

5

6

- Always need something to present
- Assumption: Present Something of Interest
- Encourage: Critical Review of the Literature

Introduction to iLearn

- I lecture x 30 minutes on a general topic
- Each Resident has a topic prepared
 - Chosen Randomly















- Money/Prizes(competition)
- Prestige (competition)
- Peer Review

5

Criteria

• Overall Score

9

5

9

- Direct Impact on Patient Care
- Improves my Clinical Relevant Knowledge
- Optimizes Evidence-Based Care
- Optimizes my Communication Skills
- Improves my System-Based Practice

Format

- Journal Article or Recent News
- Problem-Based Learning
 - Present a Case: Assign a Discussant
 - Present a Topic: Assign a Discussant

Problem #4 • Uniform Scoring • Buddy Systems



Summary for i-Learn & Life-Long Learning

- Self-Directed Learning
- Relevant to the Field
- Emphasis on Evidence-Based Practice
- Stress Core Competencies

 \bigcirc

- Early Feedback and guidance are Essential
- Secret Recipe of iLearn: The Learner is Teacher!

Emergency Department and Inpatient Assessment of Basic Eye Function Prior to Ophthalmology Consultation

RYAN K. WONG, MD AND JOHN J. HUANG, MD

BACKGROUND:

Many non-ophthalmologist physicians may be inadequately trained in the initial management or appropriate referral of ophthalmic disease.

PURPOSE:

We aim to characterize the rate and accuracy of basic ophthalmic assessment performed by emergency department or inpatient services prior to ophthalmology consultation.

METHODS:

A chart review of new consultations to the ophthalmology service from September 2010 to August 2011.

CONCLUSIONS:

566/1,399 (40%) charts had documentation of the primary service's initial ophthalmic assessment of VA, EOM, and pupillary exam. Of these consultation requests 129/566 (23%) had assessed VA quantitatively, 101/566 (18%) assessed VA qualitatively, 367/566 (65%) assessed EOM, and 375/566 (66%) assessed pupillary function prior to calling the ophthalmology service. Our study shows: 1) many emergency department and inpatient services do not assess VA, EOM, or pupillary function prior to requesting ophthalmology consultation and 2) the reported VA is often worse than that measured by the ophthalmology service. These findings may have important implications on the appropriate triage of patients with ophthalmic complaints and the utilization of limited medical resources. Possible areas of improvement are an increased emphasis on ophthalmology in medical school and non-ophthalmology residency education. Ophthalmologists can actively engage in this endeavor and use this opportunity to play a more active role in hospital-based medicine.

Current Advocacy Education In Ophthalmology Residency Programs

KIMBERLY CROWDER, MD

BACKGROUND:

One of the July 2011 major revisions for Program Requirements for GME in Ophthalmology states that "Residents must have documented didactic sessions in each of the following: advocacy...". I initiated this project to attempt to answer Janet Betchkal's (AAO Secretariat for State Affairs) questions "How are resident's educated about advocacy?" and "Do they know how critical this is to the future of our profession?" She posed these questions when she lectured at Grand Rounds at our program.

PURPOSE:

The goals of this project are to attempt to find out what other ophthalmology programs were currently doing to fulfill this advocacy requirement; what resources could be utilized to make this education more effective and to find out how other program directors, teaching faculty and residents viewed the need for/importance of advocacy in our profession.

METHODS:

Volunteer survey sent out via eyepdnet listserv in June 2012 to all program directors with the request for them to forward the survey to their teaching faculty, residents and fellows.

CONCLUSIONS:

143 people responded to the survey (39 Program Directors, 34 Faculty, and 70 Residents/Fellows). Responses varied but most programs are doing something to meet the requirement, most programs showed interest in expanding what they are doing (possibly with some guidelines from larger organizations), and most individuals do recognize this is an important topic for our profession.

Introducing a Mental Skills Curriculum into an Ophthalmology Residency: A Pilot Program

TRAVIS FRAZIER, MD

BACKGROUND:

Several studies have published results on the use of mental imagery in a surgical or simulator context and shown the efficacy of simulation and mental rehearsal to be equivalent to physical practice. Elite athletes, soldiers and surgeons have different missions but share a high demand for performance and resiliency. Ophthalmic surgical training is a practice domain that is nascent in the application of mental skills for performance enhancement.

PURPOSE:

Introduce an innovative mental skills curriculum based on the skills and techniques of attention control, mental imagery, goal setting, confidence and energy management. Evaluate the program over 18 months using structured and semi-structured feedback from all participating residents to assess the relevance and application of mental skills during surgery and in reduction of resident stress and burnout.

METHODS:

The Attentional and Interpersonal Style (TAIS) inventory was completed by all participating residents and staff surgeons. The results were used for building self awareness and to provide baseline objective data for determining the most relevant mental skills for each individual. All residents participated in an introductory session on core mental skills and the model for developing a personalized performance plan. Six targeted workshops and two open discussion workshops were completed. Feedback was collected throughout the 18 months.

CONCLUSIONS:

Utilizing a mental skills curriculum in an ophthalmology residency increases awareness of physical and emotional responses to stress during surgery and appears to improve resiliency and decrease resident burnout.







GOOD VS. GREAT If training, physical abilities, and background are equal... What separates a good surgeon from a GREAT surgeon?







PREP HISTORY

2004 – Army Center for Enhanced Performance (now CSF-PREP







- · Residency is stressful
- Residents learn on live patients



• Physicians deal with stress and burnout throughout a career























OBJECTIVE: TRAIN WORLD CLASS RESIDENTS

- Intentionally teach residents and staff how to manage stressors to increase surgical performance
- Teach mental skills to address confidence, burnout, and increase resiliency
- Increase awareness of concentration styles, stressors, and mental skill usage to increase performance

RESEARCH OBJECTIVE • Assess the efficacy of an innovative mental skills curriculum • Assess the programs ability to • Increase self awareness of stressors and unique obstacles to performance • Improve the rate and efficiency of learning • Teach mental skills for residents use in surgery • Increase resident resiliency, address fatigue issues, burnout and poorly managed stress

CURRICULUM DESIGN

- 1. Residents complete TAIS (The Attentional & Interpersonal Style Inventory)
- 2. A 4-hour workshop at beginning of academic year
- 3. Eight 1 hour targeted workshops
- 4. One-on-One sessions as requested for personalization of skills and/or review TAIS results







DATA COLLECTION

- Open-ended questionnaire at conclusion of training
- 8 question feedback likert style survey
- · Interviews with residents
- After action review notes from each monthly workshop
- All feedback and after action comments were collected anonymously





RESULTS

- Residents rated attention control as the most useful skill, followed by energy management
- All residents reported an increased awareness of and reported they used mental skills during surgery
 All residents agreed that mental skills training should continue





WAY FORWARD

- Implement deliberate and systematic approach to mental skills training with outcome measures related to complication rates or patient safety
- Adoption of mental skills training amongst other surgical specialties

ACKNOWLEDGEMENTS

- Special thanks to the following:
- MAJ Erin Seefeldt, MD
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Enhance performance, resiliency and training efficiency

	emotional response to str	ess?	ur awareness or your physical and
	strongly disagree	somewhat agree	strongly agree
	0123		8910
2.	Have you applied mental	skills during surgery?	
	Never	sometimes	every case
	03		810
3.	Which of the 5 componer	ts of the APP have you used to	most? Please rank 1 to 5
	_1Attention control (incl	udes Refocusing)	
	_4Goal Setting		
	_3Mental imagery		
	_5Recovery		
	2 Energy Management		
	_2Energy Management		
4.	Do you feel that mental sl	kills use during a surgery has im	proved your patient outcomes?
4.	Do you feel that mental sl strongly disagree	kills use during a surgery has im somewhat agree	proved your patient outcomes? strongly agree
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8. Do you think we should continue mental skills as part of our training curriculum?

____Yes ____No

Education and Training of Referring Physicians Decreases At-home Call Demand

LÉON-PAUL NOËL, MD AND ABHISHEK NEMANI, MD

BACKGROUND:

Excessive, sometimes unnecessary consultation challenges the ophthalmology resident's ability to obtain adequate rest and personal time while taking at-home call. Basic training of non-ophthalmologists in the assessment and treatment of commonly encountered ophthalmic conditions offers a potential solution to this problem by providing primary caregivers the knowledgebase, tools, and confidence to manage such conditions independently. This study measured ophthalmic consultation requests at a large teaching institution and the impact of an educational intervention on the number and type of requests.

PURPOSE:

This study was conducted to determine if a simple educational intervention could impact the number and type of on-call ophthalmologic consults, with a focus on reducing the ophthalmologic resident at-home call burden and subsequent post-call fatigue.

METHODS:

During a 31 day period in 2009 all requests for urgent ophthalmic consultation were logged and characterized by reason for consult, urgency of call, and source of consult. A 3 part educational intervention was targeted to residents and attendings in the departments of emergency medicine (half-day lecture and practice with ophthalmologic techniques), anesthesiology (Grand Rounds lecture), and otolaryngology (guidelines for traumatic orbital fractures). Six months later during the same academic year, a second call-log was conducted over 26 days to evaluate the impact of the intervention.

CONCLUSIONS:

Basic education of non-ophthalmologists in ophthalmic diagnostic and treatment concepts, through relatively brief educational interventions, was associated with a decrease in total consult requests and more appropriate consults in this pilot study at a single institution.

EDUCATION AND TRAINING DECREASES AT-HOME CALL DEMAND - LÉON-PAUL NOËL, MD AND ABHISHEK NEMANI, MD

Education and Training of Referring Physicians Decreases At-Home	ABRIMITS K. NUMAN, WD	
Call Demand	Lion-Phot Noli, MD	



ACGME Resident Duty Hours

- Maximum Duty Period Length
 Residents must not be assigned additional clinical responsibilities after 24 hours of continuous inhouse duty
- Minimum Time Off between Scheduled Duty Periods
 - Residents should have 10 hours free of duty, and must have eight hours between scheduled duty periods
 - They must have at least 14 hours free of duty after 24 hours of in-house duty

At-home call

- Time spent in the hospital by residents on at-home call must count towards the 80hour maximum weekly hour limit
- Must not be so frequent or taxing as to preclude rest or reasonable personal time for each resident
- Residents are permitted to return to the hospital while on at-home call to care for new or established patients



Methods

- Identified major sources of after-hours consultation requests
 Emergency Medicine
 Anesthesia
- OtolaryngologyThree separate
- educational interventions

 Repeated call-log six
- months later
- Compared the 2 data sets

One-month call-log Time of request Physician requesting consultation Suspected diagnosis Duration of consultation Sense of urgency Final diagnosis Treatment provided

EDUCATION AND TRAINING DECREASES AT-HOME CALL DEMAND - LÉON-PAUL NOËL, MD AND ABHISHEK NEMANI, MD





TABLE I FIVE MOST PRIQU	ENTLY ENCOUNTEEED OPHTHALMIC CONDITION	S UPON CONSULTATION BY DECENCY
legent	Not Lirgent	Treatable by Calling Physician
Eyelid laceration	Nontraumatic catarist	Chemical exposure
Hyphema	Dity sys	Corporativitia
1/15	Monocular diplopia	Corneal abrasion
Retinal vascular occlusion	Refractive error	External roreign body
Ruptured globe	Voually asymptomatic orbital fractare.	Subconjunctival tiencentrage
ptured globe	Visually asymptomatic orbital fracture.	Subconjunctival Tempinhage





EDUCATION AND TRAINING DECREASES AT-HOME CALL DEMAND - LÉON-PAUL NOËL, MD AND ABHISHEK NEMANI, MD



Discussion Comparison of preintervention and postintervention data • Objective decrease in number of total and after-hours calls received • Improvement in appropriateness of consuls requested Limitations Preintervention data collected early in academic year No power calculation Educational intervention may have been too weak (i.e. small effect size) Small sample size Small sample size No clinically adverse visual outcomes or events occurred for any patients seen in follow-up All patients referred for next-day follow-up were treated appropriately Interventions appeared to be well received and have been continued since with few resources as part of the usual resident teaching time

Conclusions

- Basic education of nonophthalmologists in ophthalmic diagnostic and treatment concepts through 3 brief cross-discipline educational interventions associated with • Decrease in total consultation requests
- Increase in preconsultation and postconsultation agreement on diagnosis

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Transforming Existing Resident Performance Data into Actionable EPAs

JONATHAN M SKARIE, MD, PHD

BACKGROUND:

The Next Accreditation System (NAS) from ACGME shifts from teaching to performance milestones. Systematically identifying milestone performance gaps is essential and challenging given limited curriculum time and breadth of our specialty. Reconsidering performance gaps as entrusted professional activities (EPA's), provides a framework for systematic needs assessment.

PURPOSE:

To use a systematic approach to identify performance gaps and reframe as EPAs within ophthalmology residency programs using geriatrics as an exemplar area.

METHODS:

Data sets available to every residency program (e.g., OKAP key word and performance metrics, faculty assessments) were coded using ophthalmology geriatrics focused content drawn from literature and textbooks, and gaps were identified. These gaps were then transformed into an observable performance activity consistent with what a faculty would "entrust" a resident to perform. Using surveys, faculty rated the supervision level needed for graduating residents and residents rated current ability to perform each activity.

CONCLUSIONS:

Fourteen geriatrics EPAs were formulated from data sets. Resident/faculty ratings resulted in specific targeted needs (e.g., systemic and glaucoma medications) for instruction and follow-up assessment. Use of EPA-based needs assessment was an intuitive, efficient and generalizable strategy to coalesce multiple data sets into an actionable strategy to improve resident education.

Incorporating Kitaro in the Wet Lab Curriculum

YOUSUF M. KHALIFA, MD

BACKGROUND:

Simulation in ophthalmology surgical training gravitates to porcine eyes, which serve as a good medium for teaching wound construction and wound closure but is poor in teaching intraocular techniques. The Kitaro Wet Lab is a recent addition in wet lab simulation, and its incorporation in the wet lab curriculum may mitigate some of the limitations of porcine eye simulation.

PURPOSE:

To better teach capsulorrhexis and phacoemulsification to residents in a wet lab setting using the Kitaro system.

METHODS:

A six week curriculum was developed with weekly didactic and live demonstrations in the wet lab using the Kitaro system in a step-wise progression through cataract surgery. Residents were assigned a task to complete under video recording and submitted their videos for grading. An adaptation of the Subjective Phacoemulsification Skills Assessment grading system was utilized and weekly evaluations were provided to the residents and faculty.

CONCLUSIONS:

Kitaro Wet lab can be easily incorporated into the surgical training curriculum where its main advantage is simulation of capsulorhexis and phacoemulsification. Video recorded assignments promote focused resident training and allow for more useful feedback.

A Residency Program with Online Teaching: An Exercise in Social Entrepreneurship

RAMESH AYYALA, MD, FRCS

BACKGROUND:

Of the 285 million visually impaired worldwide, the majority live in developing countries with scant resources. I propose to tackle this problem by supplementing local resources and training using online teaching.

PURPOSE:

The specific aims of this project are: 1. Identify communities that lack trained doctors; 2. Use local resources to provide the patient base for teaching; and 3. Establish a structured curriculum to train residents.

METHODS:

India is home to 24 million blind people, with significant reversible causes such as cataracts, glaucoma and diabetes. India needs an additional 300 residents to meet increasing population demands. Hyderabad in central south India with 10 million population served by 3 medical schools has been identified as the location to establish a hospital system dedicated to resident training. A core team with experience in building hospital systems and establishing training programs was assembled. Anand Eye Institute (AEI), a modern tertiary care hospital, has been built and opened to the public on July 29th, 2012. The online curriculum is being developed and resident enrollment will commence July 2014.

CONCLUSIONS:

AEI, a tertiary care eye center, is successfully established in Hyderabad, India, with the intention of supplementing resident training using an online residency program.

Outcomes of Cataract Extraction in Eyes with 20/400 or Worse Cataracts Stratified by Level of Training

SANDRA M. JOHNSON, MD AND ERIC AREITER

BACKGROUND:

Our department cares for approximately 100 legally blind eyes associated with advanced cataract each year. Our residents acquire the requisite number of primary cataract surgeries while on their Veteran's Administration (VA) Hospital rotation and we would like to assess whether outcomes for these surgeries differ before or after this rotation. It may be that the advanced nature of the cataract is associated with complications that are not related to the surgeon's level of training. We hope to determine if these cases need to be assigned based on level of training.

PURPOSE:

This project is to determine visual outcomes, vitreous loss and posterior capsule tear related to surgery for advanced cataract based on level of the surgeon. It will also identify co-morbidities and demographics associated with this population.

METHODS:

This is a retrospective chart review of eyes that underwent cataract extraction at the University of Virginia identified by reviewing surgical logs from April 2008 up to October 2012. Inclusion criteria are 20/400 or worse pre-operative vision with a cataract consistent with the vision. Demographic information are collected. Ocular history of co-morbities are recorded and operative notes are reviewed. We are consulting with our bio-statistics department for analysis.

CONCLUSIONS:

To date, data has been collected on 333 surgeries. There is improved vision in 89 percent, and there is an overall 4.8% rate of vitreous loss for these advanced cases with not much difference between the surgeon groups. Complete data will be presented. Further analysis is being done regarding patients who lost vision and eyes which had no IOL placed.

OUTCOMES OF CATARACT EXTRACTION - SANDRA M. JOHNSON, MD AND ERIC AREITER

Residency and Mature Cataracts

Sandra M. Johnson, MD Associate Professor Program Director University of Virginia

CE/IOL in Perspective • The highest number of this procedure required in training • The backbone of general ophthalmology and resident surgical experience • Not all cataracts are equal



Mature Cataracts

- These cataracts are not that uncommon in populations cared for my residents who delay surgery for cataracts
- Indigent Patients who delay
- Unilateral Traumatic or Amblyopic Cats
- Immigrant Populations
- Institutionalized Patients



Mature Cats

- Where do they fit into residency?
- Should we use them to teach ECCE?
- How much more morbidity for these pts?
- Are they generally happy even there are complications? Hard to be much worse then they are pre-op

Scarce Literature

- A body of literature exists on resident CE/IOL
- Most literature on mature cats is from developing nations where they are common
- Not much mainstream interest as likely a small portion of a general eye practice – even referred purposely to residencies due to the extra time required

OUTCOMES OF CATARACT EXTRACTION - SANDRA M. JOHNSON, MD AND ERIC AREITER

Likely More Risks

- Very dense NS = more phaco time and corneal edema
- Little cortex and epinucleus leaves PC vulnerable
- · Mature lenses may have weak zonules or hx of trauma with weak zonules
- Mature lenses may have intralenticular pressure ٠ and despite vision blue, rhexis can be difficult tendency to radialize
- The lost art of ECCE with better phaco

UVA Mature Cat Experience

- We have about 100 per year in the dept.
- · We are attempting to evaluate the outcomes with supervised residents completing the cases vs attendings- review of about 350 cases
- We are looking at pre and post VA experience; where residents complete their required number of bread and butter and Flomax cases
- · Outcomes include improvement in vision and types of complications vs what is reported for CE/ IOL in the literature

General Res Cat References

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Resident Conformance with the AAO PPP for Primary Open Angle Glaucoma

PRATAP CHALLA, MD

PURPOSE:

To examine resident adherence to preferred practice pattern (PPP) guidelines set up by the American Academy of Ophthalmology (AAO) for follow up care of primary open angle glaucoma (POAG) patients.

DESIGN:

Retrospective chart review

PARTICIPANTS:

103 charts were selected for analysis from all patients with an ICD-9 classification of open angle glaucoma (OAG) or its related entities who underwent a follow-up evaluation between July 2, 2003 to December 15, 2004 at the resident ophthalmology clinic in the Durham Veteran Affairs Medical Center (VAMC).

METHODS:

Follow up visits of POAG patients were evaluated for documentation of 19 elements in accordance to PPP guidelines.

MAIN OUTCOME MEASURES:

Compliance rates for the 19 elements of practice guidelines were first averaged in all charts, and then averaged per resident and compared among 8 residents between their first and second years of residency.

RESULTS:

The overall mean compliance rate for all 19 elements was 82.6% for all charts (n=103), 78.8% for first year residents (n=8) and 81.7% for second year residents (n=8). The increase from first to second year of residency is not significant (P>0.05). Documentation rates were high (>90%) for 14 elements, including all components of the physical exam and follow up as well as most components of the exam history and management plan. Residents documented adjusting target intraocular pressure (IOP) downward, local or systemic problems with medications, and impact of visual function on daily living approximately 50% to 80% of the time. Documentation rates for components of patient education were the lowest, between 5% and 16% in all charts.

CONCLUSIONS:

Residents' compliance with PPP guidelines for a POAG follow up visit was satisfactory for the majority of elements but documentation rates for components of patient education can be improved substantially. Adherence rates to PPP guidelines can be used as a tool to evaluate and improve resident performance during training. More research is required to study if adherence to compliance guidelines impacts patient outcomes.

Residents as Educators - A Novel Approach

MICHELLE DIAZ, MD AND SANDEEP GROVER, MD

BACKGROUND:

Ophthalmology residents in the majority of the programs teach medical students and other specialty residents. However, there is no curriculum for residents teaching ophthalmic technicians.

PURPOSE:

This study was conducted to assess the feasibility and effectiveness of first year ophthalmology residents formally teaching the ophthalmic technicians of the department on a regular basis throughout the year.

METHODS:

A curriculum was developed and the first year residents, by rotation, delivered weekly 30-minute lectures and/or hands-on demonstration of ophthalmic examination techniques and instrumentation to all the ophthalmic technicians. The whole curriculum was completed over a period of one year. Constructive feedback was given to the presenting resident after each session by other residents and faculty. The technicians evaluated the residents as part of the 360 evaluations. The technicians were formally tested every 3 months to evaluate their medical knowledge.

CONCLUSIONS:

The "residents as educators" program enhanced the medical knowledge, interpersonal communication skills and professionalism in the residents. This provides an opportunity for the residents to develop active learning, teaching and leadership skills. This program has been in place for 4 years and based on positive feedback from technicians and residents, has become an integral part of resident education.

RESIDENTS AS EDUCATORS - A NOVEL APPROACH - MICHELLE DIAZ, MD AND SANDEEP GROVER, MD



University of Florida, Jacksonville

Background

 The Accreditation Council for Graduate Medical Education (ACGME) recognizes residents' role as medicine's future educators, with core competencies directed to improving communication skills and medical knowledge in an environment of active learning

Background

- 'Education of patients'
 - An integral part of resident education
 - Prepares for future practice
- Role of senior residents in educating junior residents
 - Being emphasized by ACGME

Background

- Many residency programs have developed 'residents-asteachers' modules to strengthen teaching skills, mostly directed to teaching:
 - Medical students
 - Interns
 - Residents from other specialties

Background

- However, these practices are most prevalent in larger internal medicine and pediatrics residency training programs
- In smaller specialty programs, such as ophthalmology, medical students may only rotate with residents a few months of the year
- No modules to 'formally' teach technicians in the program/department

Methodology

- University of Florida, Jacksonville developed a "Residents as Educators" module
- First year ophthalmology residents (PGY-2) formally teach all the ophthalmic technicians in the department on a weekly basis
- This is in the fifth year now

RESIDENTS AS EDUCATORS - A NOVEL APPROACH - MICHELLE DIAZ, MD AND SANDEEP GROVER, MD

Methodology • Based on a curriculum developed according to the requirements for Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO) Certified Ophthalmic Technician (COT) exam • The curriculum is completed in a one year cycle • 30-minutes lecture/hands-on/demo once a week

Improvement of curriculum based on input from the techs

Description Solution So

- Methodology
- Teaching by first year residents
- All other residents in the room:
 - For helping out, if necessary
 - For feedback to the presenter

Methodology

- All residents and a supervising faculty member are always present in the classroom
- Positive feedback and subjective evaluation are provided after each lecture by the faculty member and senior residents
- The technicians evaluate the residents as part of the 360 evaluation twice a year
- The technicians are tested every 3 months for their medical knowledge

Advantages - Residents

Medical Knowledge

- 'Active learning through teaching' as first year resident
 Develop confidence in answering questions
- Interpersonal Skills
- Development of interpersonal relationships between residents and technicians
- Communication Skills
 - Improves teaching skills
- Enhances resident presentation techniques
- Prepares residents for public education experience

Professionalism

• Prepares the resident as a role model for the technicians

Advantages - Technicians

- Enhances medical knowledge
- Enhances interpersonal relationship between the residents and techs
- Techs play a role in development of the curriculum depending on the 'mix'
- Evaluation on a regular basis (tests)
- Test scores are linked to their salary structure
- Improvement of clinical skills improves quality of patient care!

RESIDENTS AS EDUCATORS - A NOVEL APPROACH - MICHELLE DIAZ, MD AND SANDEEP GROVER, MD

Conclusion That • Excellent and successful model where both the 'teacher' and the 'taught' benefit • K.V. • Has been accepted very well by the residents and the techs • Car • Jay • Do



Effects of an Intensive Review Course on Residents and Fellows

MARK LELLI

BACKGROUND:

To pursue the possibility of using an intensive review course to establish a baseline of knowledge for students from all institutions and year of study.

PURPOSE:

To analyze the effects of an intensive review course on the standardized test scores and performance of residents and fellows from different institutions

METHODS:

Residents and fellows from multiple institutions were subjected to a 3 day intensive review course. Performance was measured via pre and post-test results. Results were also correlated to USMLE and OKAP performance. Results were analyzed with statistical analysis based on comparing means and correlational studies.

CONCLUSIONS:

The program had the desired effect of bringing students from different academic institutions and levels of study to the same level. Participants of the course from different institutions and year of study differed significantly from each other at the beginning of the course (p<0.05 for most comparisons). After the course, residents of all years and institutions did not have any significant differences in mean scores (p<0.05). Higher scores also are very close to being correlated to higher OKAP scores (p=0.083). This study indicates that intensive review courses are beneficial both to short-term and long-term success.

EFFECTS OF AN INTENSIVE REVIEW COURSE ON RESIDENTS AND FELLOWS - MARK LELLI













EFFECTS OF AN INTENSIVE REVIEW COURSE ON RESIDENTS AND FELLOWS - MARK LELLI





Developing a Resident Research Handbook

RACHELLE REBONG, MD, ANNE FUNG, MD AND SUSAN DAY, MD

BACKGROUND:

The pursuit of research activities is an important part of ophthalmology residency and is in fact required by current ACGME guidelines. However, teaching on research skills is largely variable and often times unavailable.

PURPOSE:

To create a reference guide and handbook outlining the key steps in carrying out an independent research project.

METHODS:

Based on information from current literature as well as our experiences guiding residents through research activities in our home program, we compiled information on the key steps in carrying out an independent research project. The handbook walks residents through the process of developing an idea, generating a hypothesis, designing the study, getting IRB approval, collecting and analyzing data, and presenting the results. We include practical tips, provide explanations of important terms and suggest references for further reading where appropriate.

CONCLUSIONS:

The pursuit of research activites is an integral part of residency training, both to prepare residents to carry out future research projects and to teach residents to become critical readers of medical literature. Our research handbook serves as a guide and reference for residents carrying out independent research projects.

DEVELOPING A RESIDENT RESEARCH HANDBOOK - RACHELLE REBONG, MD, ANNE FUNG, MD AND SUSAN DAY, MD

Resident Research Handbook Table of Contents

I. Introduction

- II. Developing an idea
 - A. Observe, question, and listen
 - B. Finding a mentor
 - C. Generating a hypothesis
- III. Designing the study
 - A. Is this idea feasible?
 - 1. Pre-writing exercise
 - 2. A word on funding
 - B. Clinical research study design
- IV. Statistical considerations
- V. Institutional Review Board regulations
 - A. What is the IRB?
 - B. Human Subjects Protection training

VI. Conducting research

- A. Data collection sheets
- B. Final vs. interval visual acuity
- C. Snellen vs. ETDRS vs. logmar vision

VII. Presenting data

- A. Writing an abstract
- B. Preparing a poster
- C. Preparing a presentation
- D. Writing a manuscript

Mentoring : a Tool for your Professional Development Toolbox

Office of Faculty Affairs, University of Massachusetts Medical School



The goals of this session are both personal and professional/administrative:

- Provide faculty participants with the insight and tools to enable them to realize their potential through mentoring:
 - how to identify an appropriate mentor
 - how to manage a mentoring relationship
- Illustrate elements of structured mentoring programs that will enhance success for participants and organizations:
 - models for mentoring programs
 - elements of effective mentoring programs

Panel Discussion: Perspectives on Mentoring

- Laura L. Wayman, M.D. Comprehensive Ophthalmology Director of Resident Education Vice Chair for Education Vanderbilt Eye Institute
- Laura K. Green, M.D. Residency Program Director Cornea, Cataract and Refractive Surgery Krieger Eye Institute Sinai Hospital of Baltimore
- R. Michael Siatkowski, MD James P. Luton Professor of Ophthalmology Vice Chair for Academic Affairs Residency Program Director

Gaining clarity on goals and expectations: What is mentoring?

"Mentoring is a dynamic, reciprocal relationship in a work environment between an advanced career incumbent and a beginner aimed at *promoting the development of both.*" Healy, Educ Res 1990, 19 17-21

lealy Educ Res 1990, 19 17-21

The mentor will... "assist and *facilitate the realization* of the dream." Levinson DJ The Seasons of a Man's Life 1978

How do these definitions resonate with your own concept (and expectations) of mentoring?

Mentoring is BOTH process and relationship





- Convey knowledge
- Develop skills
- Coaching: Instruction
- Assessment and feedback



Supportive relationship

- Built upon Trust
- Friendship
- Counseling
- Sponsorship

Mentoring : a Tool for your Professional Development Toolbox

Office of Faculty Affairs, University of Massachusetts Medical School





Mentor selects protégé (mentee)

- Mentee is provided with a single source of guidance and support
- Relationship encompasses all aspects of mentoring (socialization, coaching, counsel)
- Success dependent on the "chemistry" of the relationship



emachus and Mentor Pablo Fabisch





Mentoring : a Tool for your Professional Development Toolbox

Office of Faculty Affairs, University of Massachusetts Medical School

To obtain effective mentoring, YOU need to <u>navigate and manage</u> the Mentoring Relationship

Ask for help with specific requests

Establish expectations for both mentor & mentee (a mentoring contract may be useful)

Schedule and keep appointments to meet

Prepare for meetings with your mentor

Listen to advice and feedback

You must be PROACTIVE in the PROCESS!

"Managing Up" is a strategy to get the most from your mentor

- Expressing one's needs directly
- Taking responsibility for a setting expectations
- Being available and flexible
- Communicating straightforwardly
- Managing information flow
- Asking questions; clarifying ideas
- LISTENING

Managing Up means taking ownership of the relationship.

Making the Most of Menters: A Guide for Mentees; Zerzan, et.al., Academic Medicine; Jan 2009





Mentoring does not always go well. Mentoring does not always go well... your **Reasons for 'failed' mentor-mentee relationships:** experiences Think about a negative mentoring experience that you Dyad Mismatch Distancing behavior have had in your professional life. Values, work style; Neglect (most common) personality Manipulative behavior Lack of mentor expertise Inappropriate delegation; What was the source of the problem? Technical and/or credit taking • What was the outcome? interpersonal deficits Mentor role conflicts General dysfunctionality In retrospect, what did you learn? · Direct supervisor role Personal problems; demands may conflict with psychological problems role of mentor Eby, 2000

Mentoring : a Tool for your Professional Development Toolbox

Office of Faculty Affairs, University of Massachusetts Medical School



To support the retention of native faculty talent through opportunities to continuously build and expand professional skills



Formal

Informa



Mentoring : a Tool for your Professional Development Toolbox

Office of Faculty Affairs, University of Massachusetts Medical School

Mentors are selected based on the mentee's needs for their project — functional mentoring

We typically select mentors who are:

- from a different department than the mentee
- a new mentor for the mentee

We expect mentors to:

- guide mentee on project through regular interactions during the program
- review mentee's plans for scholarship & help prepare final project presentation

Commitment from the Mentor is specific & time-limited

The Project provides the focus for mentoring

The Project results in a tangible product that

- benefits the junior faculty participant
- is an opportunity for scholarship
- contributes to the faculty's academic dossier
- benefits the department and institution
- is a return on investment for protected time



Evaluation of JFDP: Effective mentoring enhances individuals and organizations

Mentors had a significant impact on projects: the success of the project reflected the effectiveness of the mentoring relationship

Projects impacted individual careers

Mentoring led to skill development

50% of mentoring relationships continued

Ability to make new relationships

Enhanced organizational vitality





Thorndyke et al, JCEHP 28 157 (2008) Gusic et al, Acad. Med. 85:1484 (2010)

How do we know mentoring is good?

"Mentoring is perceived as an important part of academic medicine, but the evidence to support this perception is not strong."

"Systematic reviews on the effects of mentoring in other fields...also show a lack of valid evidence for the effectiveness of mentoring, indicating a general need for clarification of theoretical and conceptual perspectives ... "



Sambunjak et al. JAMA 2006

Measuring outcomes demonstrates the impact of mentoring programs

Consider the following:

Who are the stakeholders?

- What kinds of data need to be collected:
- to demonstrate that the program is effective?
- to demonstrate a
- return on investment?

How will you collect that data?



How do we know that mentoring is effective?

"A majority of...programmes lack a concrete structure as well as a short- and long-term evaluation....No publication contains statements on the effectiveness or efficiency of the programme."

Buddeberg-Fischer & Herta Medical Teacher 2006





Mentoring : a Tool for your Professional Development Toolbox

Office of Faculty Affairs, University of Massachusetts Medical School



Structure and flexibility

Defined expectations

Tacit & explicit institutional/departmental support

Administrative commitment and support

Tangible outcomes that demonstrate impact

Standards consistent with departmental and institutional criteria for judging excellence

Reward & recognition

Process for ongoing assessment and revision



Notes

