I. Approval of the minutes. The minutes of the 444th meeting of the Faculty Senate of November 11, 2015, were presented. A motion was made, seconded, and minutes were approved as distributed.

II. Announcements and comments from Chair Dr. Crino. The State of Hopkins Medicine address will be 12/10/15 at 12:00 PM. The next Research Integrity Lecture will be 12/15/15 at 3:30 PM. Dr. Barbara Fivush from the Office of Women in Science and Medicine wanted to remind us to nominate someone for the 8th Annual Vice Dean’s Award given to a SOM faculty member who has demonstrated a commitment to recruitment, mentoring, and advancement of women faculty. The deadline is 12/17/15. In preparation for the next meeting of the Faculty Senate in January, please email Dr. Crino (by 1/13/16): (1) a copy of your department’s parental leave policy and (2) your experience with the travel program. A retirement reception for Dr. Julia McMillan will be held on 1/8/16 at 4:00 PM. The various department director search committees are in progress and on schedule. The election for a new Part Time Faculty representative (to replace Dr. Lacour) will be closing next week.

III. Howard Gwon, Sr. Director Emergency Management. Mr. Gwon reviewed the Active Shooter Training Course explaining the origin, background, and purpose – 3 messages: hide, run, or fight. In development: department level response plans and new alert notification systems in building that do not have a public address system (e.g., 2024 E Monument Building).

IV. John Flynn, MD, MBA, Med, Vice President, Office of Johns Hopkins Physicians, Associate Dean & Executive Director, Clinical Practice Association. EPIC launched at Bayview on 12/1/15. Developers continue to receive and work-out reported bugs in system. The Go-live date did not incur any patient safety events. Unclosed encounters are being investigated and addressed; Dr. Flynn recognizes some of these cases come from administrative glitches on EPIC’s part. Effective 1/1/16, non-compliance notices will be issued. A process document for erroneous encounters will be circulated.
V. Robert Kritzler, MD, Deputy Chief Medical Officer; Danny Lee, MD, Office Medical Director, Internal Medicine EMR Lead JHCP, Odenton and Bruce Berlanstein, MD, Clinical Associate, Vice Chair for Operations for Radiology. ACR Select, Clinical Decision Support for Imaging makes recommendations based primarily on clinically appropriate based on diagnosis from category 1 and 2 evidence bases. Feedback encouraged for reasoning for imaging that would not be supported by insurance. Clinicians will have the ability to override. Scheduled to go live in Ambulatory Unit in January 2016.

VI. Joseph Cofrancesco Jr. MD, MPH, FACP, Associate Professor of Medicine, Director & JH Institute for Excellence in Education Professor of Medicine. Update: Welcoming ambassadors, finalist stages for Faculty Education Scholars, Education “Shark Tank” deadline: 1/15/16, conference: 3/11/16; teaching camp: 8/4/16-8/5/16, four Education Grand Rounds on calendar for 2016. New: Small grants program, Open Office hours available to SOM Faculty, Foundations of Teaching course: July 2016, new faculty encouraged.

VII. Discussion: Dr. Crino wished everyone a happy and safe holiday season.

With there being no further business Dr. Crino thanked everyone for coming and adjourned the meeting at 4:48PM

Respectfully submitted,
Masaru Ishii, MD, PhD
Recording Secretary
JH Medicine
Office of Emergency Management

“Active Shooter Course Overview and Major Components”

December 9, 2015 at JHU SOM Faculty Senate
Active Shooter Course Overview

- Course planned and developed by Corporate Security and JHM Office of Emergency Management from June to October 2015
- Course mirrors components in JHH/SOM Policy & Response Procedures
- Course designed and formatted by education division of JHH Nursing utilizing My Learning
- Rolled out through JHH Nurses as pilot and then required for all faculty, employees and students from JHH, JHHS Corp. Depts., & JHU SOM beginning January 1, 2016 and completed by June 1, 2015
- Because of Paris terrorist attacks and ISIS threats, OEM requested accelerated roll out for last week in November (received approved)
Active Shooter Course Components

- Response based on "run, hide or fight" developed by law enforcement
- Individuals select most appropriate response based on an active shooter incident or active shooter situation
- Guide clinical staff on how to help patients
- Advise staff on what to do when law enforcement and media arrive
- Annual refresher will be requested
- Approved by JHH Management Committee and JHU SOM Executive Dean
- Security and OEM will follow up with "train the trainer" program for management team members to identify evacuation routes, safety/protective measures within departments and associated units, floors, buildings, etc., as well as centrally implemented tasks; dept. Incident command center responsibilities, communication, etc.
Newport News Police Chief Richard Myers says 'You can't prepare for a specific incident, because we don't know what it's going to be, but what you can do is develop the ability to adapt and respond.'
Clinical Decision Support for Imaging
Johns Hopkins Faculty Senate Meeting

December 9, 2015
Presented by: Bruce Berlanstein, M.D., Robert Kritzler, M.D., Danny Lee, M.D.
Agenda

• Goals & Advantages of CDS
• ACR Select Product Overview
• Scope
• Project Updates
• Reporting in Epic
• Enterprise Opportunities
• Questions?
Goals

• Guide providers in selecting the most appropriate radiology procedure
  – Clinically
  – Financially

• Provide more suitable options based upon patient indications

• Collect data to allow further analysis
CDS Advantages

Reduce/eliminate unnecessary exams
- Redirects ordering physicians to more appropriate exams
- Improve safety by reducing radiation doses

Select best protocol for patient and patient’s disease
- Capture essential clinical information

Highly responsive to end user requests
- Continuous modifications to clinical indications (check boxes)
- Continuous addition of next exam types
- Changes to rules by consensus of PCP, Specialists, Radiologists

Published through the efforts of thousands of physicians representing 27 medical specialty societies working over the past 25 years, grading nearly 6500 peer reviewed published articles covering over 1000 individual imaging CPT codes, over 3000 discrete clinical scenarios and 15,000 clinical end points and individual Appropriate Use Criteria covering all of medical imaging.
ACR Select Product Overview

ACR AC® Expert Panels

Representation from over 20 Medical Specialty Societies

American Academy of Neurology
American Academy of Orthopaedic Surgeons
American Academy of Otolaryngology-Head and Neck Surgery
American Academy of Pediatrics
American Association of Neurological Surgeons
American College of Cardiology
American College of Chest Physicians
American Congress of Obstetricians and Gynecologists
American College of Rheumatology
American College of Surgeons
American Gastroenterological Association
American Pediatric Surgical Association
American Society of Clinical Oncology
American Society of Hematology
American Society of Nephrology
American Urological Association
Society for Vascular Surgery
Society of Gynecologic Oncologists
Society of Nuclear Medicine
Society of Thoracic Surgeons
ACR Select Product Overview

STRENGTH OF EVIDENCE (SOE)

- All AC 5,962 references are evaluated for Strength of Evidence
- RAND methodology for the evaluation of Study Quality (AHRQ)
  - **Category 1**: The study is well-designed and accounts for common biases.
  - **Category 2**: The study is moderately well-designed and accounts for most common biases.
  - **Category 3**: There are important study design limitations.
  - **Category 4**: The study is not useful as primary evidence. The article may not be a clinical study or the study design is invalid, or conclusions are based on expert consensus.
97% of AC guidelines are informed by Category 1 or 2 references
3% of AC guidelines are informed by Category 3 references
No AC guidelines are informed by only Category 4 references
Proven to reduce imaging utilization by up to 15% and reduce change orders downstream in the imaging process by 50% by providing a structured reason for exam to the Radiologist for protocoling, captured at the point of order.
ACR Select Product Overview

- Decision support tool purchased by JHHC to guide providers in ordering most appropriate Radiology procedures

- Provider orders a Radiology procedure, selects from a pre-determined drop-down of indications, each order is rated using ACR’s algorithm
  - Green (7-9)
    - Information stored in database for future review
  - Yellow (4-6)
    - Information stored in database for future review
    - BPA fires suggesting alternative procedures
    - Provider has option to select alternative procedure or continue with original order
  - Red (1-3: same impact as yellow)
ACR Select Product Overview

- Provides list of indications (instead of free text)
- Fires BPA for Yellow and Red
- Collects data
Scope

- Procedures
  - MRI, CT, PET/CT, Nuclear Medicine
  - Does not include
    - US, XR by choice
    - 3D Reconstruction, Abscess (except NM), Aspirations, Biopsy, Drain, Guided, Injection, Lumbar Puncture, Radiation Therapy, Tube insertion, Wire Loc, outside films
- Providers
  - JHHS Ambulatory
  - Family Medicine, Pediatrics, Generalists
  - Request to expand to Inpatient
  - Review after 6 months of data collection
Project Update

Progress since previous presentation

- Successful completion of pilot at Odenton office
- Compilation of feedback regarding ACR select
- Expansion and improved specificity regarding clinical indications in ACR Select

Next steps

- Expansion of ACR Select to additional JHCP sites and Bayview
- Continued monitoring of feedback and improvement of process
- Further refinement in clinical indications
- Closer scrutiny of data from ACR Select for practitioners
- Develop ACR FAQ document as part of a major communication plan
Future considerations

• Comparison of ACR Select data between different sites and specialties
• Inclusion of ACR Select data in resident training
• Expansion of ACR Select rollout
• Discussions with payors regarding replacement of pre-authorization with ACR Select
• Working with ACR Select vendor to create new, innovative and more useful applications
Project Update: Value of CDS Extends beyond the Physician

Using Data to Inform System-Wide Efforts

CDS Analytics Can Improve Physician Counseling, Care Transformation

- Average appropriateness of highest-volume exams
- Average appropriateness of highest-cost exams
- Average appropriateness of all exams ordered for specific disease state
- Differences in appropriateness by care setting

- Physician ordering patterns compared to cohort
- Average appropriateness of exams ordered compared by ordering physician specialty
- Average appropriateness of exams ordered compared by ordering physician experience

- Incidence of recommended follow-up imaging compared to peer cohort
- Incidence of recommended follow-up imaging compared by radiologist experience
- Incidence of recommended follow-up imaging compared by level of radiologist expertise
Reporting in Epic

Complete Reporting available in Epic
Allows analysis of Ordering Activity and Appropriateness in context with entire EMR dataset
Enterprise Opportunities

• Continuous Improvement
  – Real-time feedback to ordering physicians
  – Opportunity for collaboration between ordering physician and radiologist

• Analytics
  – Utilization profiles of staff
  – Impact on overall care cycle, when integrated with EMR

• Expected impact on care cycle
  – Reduced Length of Stay
  – Better diagnosis -> Better care

• Efficiency
  – Reduces overhead in pre-authorization process
  – Appropriateness criteria at the point of care
ACR Select- Frequently Asked Questions

Using Decision Support for Computerized Radiology Order Entry

Why consider Clinical Decision Support (CDS)?

- High tech medical imaging studies contribute to escalation of health care expenses
- Some ordered imaging exams are inappropriate, redundant, and may result in undesirable outcomes
- Interest in feedback on provider ordering profiles
- Interest in patient outcomes related to ordered studies

What are CDS advantages?

- Reduce/eliminate unnecessary exams
  - Redirects ordering physicians to more appropriate exams
  - Improve safety by reducing radiation does
- Select best protocol for patient and patient’s disease
  - Capture essential clinical information
- Highly responsive to end user requests
  - Continuous modifications to clinical indications (check boxes)
  - Continuous addition of next exam types
  - Changes to rules by consensus of PCP, Specialists, Radiologists

Why is JHM implementing decision support for computerized radiology order entry?

- “Decision support for computerized radiology order entry” means that an order and its indication can be used to query a database of consensus standard appropriateness criteria provided by medical societies in order to receive real-time, point-of-care feedback to ordering providers. This mechanism provides opportunity for guidance on order selection based upon medical indication and potentially on relative cost and radiation dose.
- The Senate passed the Protecting Access to Medicare Act of 2014, also known as the Sustainable Growth Rate (SGR) patch legislation. Notably, it delays a significant cut to Medicare physician payment. However, the fine print of this legislation also mandates the use of decision support software to show that ordered tests and procedures (such as radiology exams) meet appropriate use criteria (AUC) set by medical societies in order to get full Medicare/Medicaid reimbursement.
The Johns Hopkins Health System is implementing decision support for radiology order entry via our Epic electronic health record (EHR). The first step in this implementation requires a change toward the use of structured orders, which means that providers will need to choose coded categorical choices for indications in order to receive decision support feedback at order entry. The feedback will come from integration of our Epic EHR with ACR Select software (National Decision Support Company) using the Appropriateness Criteria® of the American College of Radiology.

In short, this technology will help meet new federal requirements; improve appropriate utilization of imaging studies (the right exam, lower costs, less radiation); and provide requested real-time support to providers at order entry.

**What is decision support for radiology order entry?**

- This is electronic point-of-care real-time feedback to you regarding your imaging orders. Based upon the structured indications (checkboxes) you have entered, you will receive instant objective feedback regarding exam appropriateness, relative cost, and relative radiation dose. Then, during the ordering process, you can use your own professional judgment to proceed with or change your order.

**Why do I need to select a checkbox?**

- These types of structured indications are necessary in order to query a database and provide objective, standardized, real-time, point-of-care feedback to you at time of order entry.

**What kind of feedback can you get?**

- **Green (7-9)**
  - Information stored in database for future review
- **Yellow (4-6)**
  - Information stored in database for future review
  - BPA fires suggesting alternative procedures
  - Provider has option to select alternative procedure or continue with original order
- **Red (1-3: same impact as yellow)**

Highly indicated studies are green (scores 7-9). Marginally indicated studies are yellow (scores 4-6). Weakly or non-indicated studies red (scores 1-3). Relative cost and relative radiation dose are indicated by number of dollar signs or radiation symbols. The provider can use the feedback and checkboxes to easily modify or replace their order (bottom of screen).
TIPS

Providers are strongly encouraged to select any and all indications which are appropriate to their patient’s scenario.

- This provides radiologists with more clinical information for “more informed reads” and will ultimately lead to more accurate appropriateness scores for such orders.

What if I can’t find the structured indication(s) (i.e., checkbox entry) relevant to my patient?

- No problem! The hard stop requirement is really just that you put in an indication, *not that you always mark a checkbox*. Providers can choose to enter free text in the “reason for exam” field. You will get credit for entry and be allowed to place the order. However, if you do enter a free text in this field it will show up on the Epic report that the tool was not used, so this method is not recommended.
• Because there are numerous clinical scenarios for thousands of exams, you will certainly encounter patient scenarios which have not yet been evaluated and scored by consensus physician panels and translated over to our EHR. Though many scenarios are covered, we also have holes to fill in the future.

• You are strongly encouraged to select any and all indications which are appropriate to your patient’s scenario. This provides radiologists with important clinical information for “more informed reads” and will ultimately lead to more accurate appropriateness scores for such orders. Marking a checkbox also provides the opportunity to give you real-time electronic feedback on exam appropriateness, relative cost, and relative radiation dose.

• If you find that you commonly place orders in certain clinical scenarios which are blatantly missing from our content, you can forward these insights to our decision support vendor (ACR Select, National Decision Support Company) so that they may be incorporated into the site. To share this information, please contact Dr. Bruce Berlanstein at bberlan2@jhmi.edu or feedback@nationaldecisionsupport.com.

• If you have questions regarding indications, please contact Dr. Bruce Berlanstein at bberlan2@jhmi.edu or call/text at (617) 549-3872.
Medical-Imaging Stewardship in the Accountable Care Era

Daniel J. Durand, M.D., Jonathan S. Lewin, M.D., and Scott A. Berkowitz, M.D., M.B.A.

Medical imaging technology plays an essential role in the timely diagnosis and management of many conditions. Lately, however, it's become equally well known for its low-value uses and as the single largest source of per capita radiation exposure. Imaging is by far the most common service on the lists of unnecessary tests and procedures of the Choosing Wisely campaign, and an estimated 20 to 50% of imaging is unnecessary. Medical imaging is thus a valuable resource in dire need of better stewardship.

Because of concerns about overuse, private insurers have increasingly delegated imaging utilization management to radiology benefit management firms (RBMs), inserting into the value chain a third party whose credentials are unfamiliar to both patients and physicians. RBMs evaluate the medical necessity of imaging services and approve or deny physician requests. Although they help control overuse, RBMs fragment the ordering process. The time that physicians and their staff spend gathering and transmitting information and engaging with RBMs reduces their productivity and results in cost shifting rather than value creation.

Two recent policy changes have created a more favorable environment for provider-led imaging stewardship. The first is the movement toward payment reform, as exemplified by the goal of transitioning 50% of all Medicare payments to alternative models by 2018. The second is a little-known section of the Protecting Access to Medicare Act of 2014, which mandates that, beginning in 2017, physicians reference appropriateness guidelines from provider organizations when ordering advanced imaging for Medicare beneficiaries. Although practical aspects of implementation of the law have yet to be clarified, in the context of the shift toward value-based care many health systems are implementing clinical decision support (CDS) systems to help providers select the most appropriate form of imaging while limiting overutilization.

We believe we’ve reached an inflection point for provider-led imaging stewardship nationwide. To understand the approach to stewardship that may emerge, it’s helpful to consider the framework that infectious-disease specialists have used over the past two decades to systematically educate and persuade referring providers to use antimicrobial agents properly. There’s growing evidence that these interventions both improve quality — by reducing the spread of resistant nosocomial infections, for example — and reduce costs. The Centers for Disease Control and Prevention lists seven core elements of effective antimicrobial stewardship (see table). Its recipe for success involves securing leadership commitment, putting experts in charge of stewardship, implementing process interventions that curb inappropriate utilization, and properly educating ordering physicians. We believe an analogous framework can be used in transitioning to imaging stewardship.

Alternative payment models are creating financial incentives for reducing overutilization, allowing health care leaders to commit themselves more deeply to imaging stewardship. Protecting time for physician champions to lead change-management efforts and investing in infrastructure to support them are necessary but not sufficient; leaders must also publicly signal a cultural transition away from easy imaging access and toward stewardship. This message will be most effective if it’s framed as an essential component of a larger quality-improvement strategy. Public endorsement of specific Choosing Wisely recommendations related to imaging is an excellent first step.

Since keeping up with the evidence on appropriate imaging is a full-time endeavor, stewardship programs should be led by practicing imaging specialists such as radiologists, cardiologists, and nuclear-medicine physicians. Although it’s important for referring physicians to play a role in shaping local concepts of appropriate imaging within their care pathways, stewardship should be a central function within each provider organization, and dedicated leaders with common goals are required.

CDS can be an enabling tool, but stewardship interventions don’t necessarily require it. By making relatively minor adjustments to workflow, organizations can encourage physicians to seek consultation for types of exams that have a high potential for overuse. Several years ago, our institution began requiring radiologist approval for all nonemergency pediatric computed tomographic (CT) scans. We subsequently observed a spillover effect: requiring...
<table>
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<th>Element of CDC Antimicrobial Stewardship Framework</th>
<th>Imaging Stewardship Analogue</th>
<th>Implementation Steps</th>
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<tr>
<td>Leadership commitment: dedicating necessary resources</td>
<td>Making necessary investments and committing publicly to a cultural shift toward appropriateness and away from easy access to imaging</td>
<td>Endorse Choosing Wisely list items related to imaging; allocate budget for investments in information technology and nonclinical time</td>
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<td>Accountability: appointing a single leader responsible for program outcomes</td>
<td>Appointing a single leader within each imaging specialty; establishing joint accountability among the multiple relevant specialties</td>
<td>Shift compensation away from volume-based metrics to include measures of imaging appropriateness</td>
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<td>Drug expertise: appointing a single pharmacist leader for improving antibiotic use</td>
<td>Making imaging specialists responsible for executing appropriateness interventions</td>
<td>Designate stewardship champions (with formal roles and partial salary support) within each imaging department</td>
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<td>Action: implementing recommended actions, such as systemic evaluation of ongoing treatment need after a set period of initial treatment</td>
<td>Implementing interventions to ensure systematic evaluation of appropriateness at the time of ordering and encouraging dialogue between referring physicians and imaging experts</td>
<td>Change the imaging-order workflow, through CDS, consultation with imaging specialists, or both</td>
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<tr>
<td>Tracking: monitoring antibiotic prescribing and resistance patterns</td>
<td>Monitoring imaging utilization and appropriateness scores for providers and tracking per capita costs and radiation doses</td>
<td>Gather, and share with providers, data on ordering appropriateness for commonly overused exams</td>
</tr>
<tr>
<td>Reporting: regularly reporting information on antibiotic use and resistance to doctors, nurses, and relevant staff</td>
<td>Informing referring physicians about their imaging utilization rates and the best available measures of imaging appropriateness</td>
<td>Generate quarterly reports for physicians showing their ordering performance relative to that of their peers</td>
</tr>
<tr>
<td>Education: educating clinicians about resistance and optimal prescribing</td>
<td>Identifying key knowledge gaps on imaging appropriateness and educating referring physicians on relevant evidence-based guidelines</td>
<td>Request or require that ordering physicians review consensus guidelines on imaging relevant to their practice</td>
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Lessons for Imaging Stewardship from the Centers for Disease Control and Prevention (CDC) Antimicrobial Stewardship Framework.

these conversations in one situation led to more active discussion of appropriateness regarding all pediatric imaging.

Care teams within patient-centered medical homes that are attempting to curb unnecessary utilization of specialist services are increasingly managing more complex conditions and can often benefit from outside consultation when selecting the most appropriate form of imaging. Some specialties are experimenting with the use of telemedicine and “e-consults” to support the patient-centered medical home model, and imaging specialists could similarly consider how their current facility-based consultation capabilities can best be deployed to cover the full continuum of care.

CDS systems provide a useful infrastructure to support further stewardship interventions. All major CDS systems force ordering providers to select from a list of indications and then use algorithms based on clinical rules to assign each order an appropriateness score. Systems can be set so that low scores trigger passive alerts or suggestions for appropriateness consultation (“soft stops”) or require physicians to complete additional workflow steps, such as gaining approval from an imaging specialist (“hard stops”). Such systems are not universally considered effective, and there will always be some orders that cannot be properly classified by CDS algorithms. In such ambiguous cases, the role of local imaging stewards is even more important, since they can make appropriateness determinations.

Absent CDS, imaging stewards can track test utilization on a per capita or per-encounter basis — though a true understanding of appropriateness typically requires retrospective audits of individual orders. Arguably the greatest advantage of CDS systems is that they can generate appropriateness profiles for all ordering physicians, eliminating the need for such audits. These results can be used to modify workflow. For example, physicians with favorable appropriateness profiles can be made exempt from all stewardship interventions other than appropriateness monitoring, and those with less favorable profiles can be designated to receive more active feedback. Similarly, appropriateness profiles can be used as part of performance-incentive plans.

Since most institutions no longer conduct radiology rounds, imaging stewards need to be well traveled outside their departments — joining referring colleagues for multidisciplinary conferences and actively engaging in system-
redesign efforts to ensure that imaging is appropriate for all care pathways. Although stewards are the most important component of any imaging outreach strategy, CDS can convey additional advantages. Tools embedded in CDS systems can educate ordering physicians regarding the relative radiation dose and approximate cost of each test. And appropriateness profiles can be analyzed to target specific knowledge gaps for educational interventions.

Implicit in this model is the idea that imaging stewards will be able to leverage content that’s based on peer-reviewed evidence and expert consensus and contained within order-entry and other systems. Professional society guidelines embedded in CDS rule sets provide a scalable, updatable mechanism for diffusing best practices and establishing standards and benchmarks for scoring the appropriateness of each order. We believe that the more service-oriented components of stewardship — such as directly engaging referring physicians regarding orders and ordering patterns — are best maintained at the local level.

Health care organizations can master stewardship and create value at the point of care by determining the appropriate blend of centralized and decentralized resources to support their provider communities. In locations where value-based contracting is prevalent, providers with mature stewardship capabilities may request that payers delegate imaging utilization management directly to them, waive RBM preauthorization, and consider alternative payment arrangements. Having local ownership of utilization management should allow providers to streamline imaging workflows for different patient populations. Providers in areas where fee-for-service payment remains dominant may choose to focus early stewardship efforts on selected at-risk populations or those for whom imaging is currently unmanaged, to avoid adding a new layer of administrative burden.

Ultimately, health system leaders, referring physicians, and imaging specialists may take the concept of stewardship in new directions, developing a more robust stewardship model that encourages the use of imaging technology to improve patient outcomes and more reliably create value at the point of care.

Disclosure forms provided by the authors are available with the full text of this article at NEJM.org.

From the Department of Radiology and Radiological Sciences (D.J.D., J.S.L), and the Division of Cardiology (S.A.B.), Johns Hopkins University School of Medicine, Baltimore.


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Reforming the Veterans Health Administration — Beyond Palliation of Symptoms

Brett P. Giroir, M.D., and Gail R. Wilensky, Ph.D.

The Veterans Health Administration (VHA) is one of the largest health care delivery systems in the United States, with 9.1 million enrollees, 20,000 physicians, 1600 facilities, 288,000 employees, and a $59 billion budget. In response to highly publicized concerns regarding delayed access to care, preventable deaths in patients awaiting care, and falsification of lists to make waiting times appear shorter, Congress passed and President Barack Obama signed the Veterans Access, Choice, and Accountability Act of 2014. In addition to expanding non-VHA treatment options for veterans, this law requires a comprehensive, independent assessment of 12 areas of VHA care delivery and management (see box). Eleven assessments were conducted under the Centers for Medicaid and Medicare Services Alliance to Modernize Healthcare, operated by the MITRE Corporation; the assessment of one area, “Access Standards,” was conducted by the Institute of Medicine. An independent blue-ribbon panel of experts was formed to examine...
Update: Institute for Excellence in Education

Committed to Leading the Way in Medical and Biomedical Education

Joseph Cofrancesco Jr, MD, MPH, FACP
Associate Professor of Medicine
Director, Johns Hopkins Institute for Excellence in Education
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<td>Program Administrator, IEE</td>
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<td>Basic Sciences at Large</td>
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<td>Renee Blanding, MD, MPH</td>
<td>Anesthesia and Critical Care Medicine</td>
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<tr>
<td>Inbal Braunstein</td>
<td>Dermatology</td>
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<tr>
<td>Linda Regan, MD</td>
<td>Emergency Medicine</td>
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<tr>
<td>Isabel Green, MD</td>
<td>Gynecology/Obstetrics</td>
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<tr>
<td>Danelle Cayea, MD, MS</td>
<td>Medicine – Broadway Campus</td>
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<tr>
<td>Sanjay Desai, MD</td>
<td>Medicine - Bayview</td>
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<tr>
<td>Khalil Ghanem, MD, PhD</td>
<td>Neurology</td>
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<tr>
<td>Rachel Salas, MD</td>
<td>Otolaryngology – Head and Neck Surgery</td>
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<td>Alexander Hillel, MD</td>
<td>Pathology</td>
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<td>Michael Borowitz, MD, PhD</td>
<td>Pediatrics</td>
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<td>Michael Barone, MD, MPH</td>
<td>Physical Medicine and Rehabilitation</td>
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<tr>
<td>Janet Serwint, MD</td>
<td>Psychiatry and Behavioral Sciences</td>
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<tr>
<td>R. Samuel Mayer, MD</td>
<td>Radiation Oncology and Molecular Radiation Sciences</td>
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<tr>
<td>Susan Lehmann, MD</td>
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<td>Ana Ponce Kiess, MD, PhD</td>
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<tr>
<td>Pamela Johnson, MD</td>
<td></td>
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<td>Maggie Arnold, MD</td>
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<tr>
<td>Pamela Lipsett, MD, MHPE</td>
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<tr>
<td>Bethany Sacks, MD, MEd</td>
<td></td>
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<tr>
<td>Misop Han, MD</td>
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<td>Urology</td>
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</tbody>
</table>
Our Four Pillars

• Inspiring and supporting research, scholarship, and innovation in education
• Valuing and recognizing great educators
• Improving teaching
• Nurturing a community of educators
Webpage:

- http://www.hopkinsmedicine.org/institute_excellence_education/
#1. Inspiring and Supporting Research, Scholarship and Innovation in Education
1a: Faculty Education Scholars Program

Janet Serwint, MD
Professor of Pediatrics
Director of Pediatric Resident Education
Member of the IEE Managing Board

Jessica Bienstock, MD, MPH
Khalil Ghanem, MD, PhD
Mitchell Goldstein, MD
Susan Lehmann, MD
Pam Lipsett, MD, MHPE, FACS, FCCM
Douglas Robinson, PhD
Nicole Shilkofski, MD
Scott Wright, MD
Steve Yang, MD
2016 Berkheimer Faculty Education Scholars Grant

- $50K for a 12-18 month project
  - Pertinent to an issue at Hopkins
  - National/international impact (Dissemination)
  - ILP (Individual Learning Plan)
- Phase I: 2-page proposal, due October 16:
  - 21 submissions
- Phase II: Invitation to submit full proposals:
  - 3 to 5 proposals due January 15th
Brandyn Lau, MPH, CPHc
Co-Director, Analytics Leadership in Patient Safety Program
Instructor of Surgery
Instructor of Health Sciences Informatics
Topic: Learner-centric Education Based on Student Performance

Michael T. Melia, MD
Assistant Professor of Medicine
Division of Infectious Diseases
Topic: Improving Resident Teaching Evaluations with a Smartphone App: Moving from the “End of the Rotation” to the “End of Morning Rounds”
1b: Mentoring/Advice *(new)*

- Dedicating 30-45 minutes of monthly Managing Board meeting to:
  - Mentoring existing grantees
  - Feedback for ideas/new proposals
1c: Education “Shark Tank”

• Up to $10K “on the table”
  – A project can get all / some / none of the $

• Deadline for proposals: Monday, Jan 15, 2016, noon
  – 250 words

• Finalist are selected at the IEE Conference
Previous Recipients

• 2014 Recipients:
  – Colleen Christmas, MD and Panagis Galiatsatos, MD for *Aliki in the ICU*
  – Brenesssa M. Lindeman, MD for *Operationalizing the AAMC Core EPAs for Entering Residency: Where are the Gaps?*

• 2015 Recipient:
  – Heather Sateia, MD for *Incorporating High-value Care into the IM Interns’ Ambulatory Medicine Curriculum*
1d: Small Grants Program *(new)*

- Up to $7,500 available each round (2-4/year)
  - Specific money for basic science faculty
  - List of “hot topics”
    - Basic Sciences
    - LCME visit
    - CLER visit
  - NOT limited to above topics, just “food for thought”

- **1st Call:** March 11, 2016 at IEE Education Conference and Celebration
Small Grants Program

• Two-phase process:
  – Phase I: To be considered for live presentation:
    • One paragraph/page synopsis of project OR
    • Four-slide voice over PowerPoint
      – What problem do you want to solve?
      – How are you going to do it?
      – How are you going to demonstrate success?
      – What is your budget?
  – Phase II: Proposal will be presented to the managing board and should include the details of the following points:
    • Proposal
    • Assessment plans
1e: Office Hours (new)

• In collaboration with the Office of Assessment and Evaluation (OAE)
• First Wednesday of the month, 3:30-5:00
  – (To start January 2016)
• Daily Grind; some at Bayview
• **Who:** SOM faculty
• **What:** Opportunity to casually meet with members of the IEE Managing Board & Office of Assessment and Evaluation. Field questions about research, teaching skills, mentoring, or anything that is on your mind!
  – More detailed questions can be directed for individual sessions.
#2. Value and Recognize Great Educators
# 2a: Awards for Outstanding Achievement in Education

**Nomination Deadline: December 14th**

<table>
<thead>
<tr>
<th>Award</th>
<th>Description</th>
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<tbody>
<tr>
<td>Martin D. Abeloff Award</td>
<td>for Lifetime Achievement in Medical and Biomedical Education</td>
</tr>
<tr>
<td>Lisa J. Heiser Award</td>
<td>for Junior Faculty Contribution in Education</td>
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<tr>
<td>Teaching</td>
<td>• Less than 10 years</td>
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<td></td>
<td>• 10 or more years</td>
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<td></td>
<td>• Part-time faculty</td>
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<td>Leadership and Mentoring</td>
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<td>Educational Scholarship</td>
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<td>Educational Innovation</td>
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<td>Educational Program</td>
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<tr>
<td>Announced at IEE Conference; listed on web pages</td>
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<tr>
<td>$1000</td>
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<tr>
<td>Listed in Graduation Brochure</td>
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</table>
2b: Promotion

• A work in progress
#3: Improving Teaching
3a: Summer Teaching Camp

Rachel B. Levine, MD, MPH
Associate Professor of Medicine
Co-Director of the Faculty Development Program in Teaching Skills, Johns Hopkins Bayview Medical Center
Consultant to the IEE Managing Board

- Institute for Excellence in Education
- Offices of the Vice Dean for Education
- Offices of the Vice Dean for Faculty Development
- Johns Hopkins Faculty Development Program in Teaching Skills, Johns Hopkins Bayview Medical Center
- Master of Education in the Health Professions Program
Format and Schedule 2015

• Two day event
• Day 1: Precourses
• Day 2: Mix of lectures, workshops, social and networking activities
• Experiential/interactive learning to role model teaching strategies and methods, transparency about methods
• Influence the culture of teaching (relational, collaborative, facilitative, self-directed, learner-centered)
Teaching Camp Vitals

Participants=93

Four Schools: Medicine, Education, Public Health, Nursing

>30 Specialties/disciplines represented

12 Faculty from All Children's Hospital

6 faculty from local institutions

4 Precourses

4 Large Group Sessions

14 small group breakouts

10 “Meet the Professor” opportunities

Over 38 faculty involved in planning and facilitating

Faculty - 44
Trainees - 15
Med Students – 9
Graduate Students - 25
## How did we do?

<table>
<thead>
<tr>
<th></th>
<th>Relevance to my teaching 5 point scale</th>
<th>Improving my skills 5 point scale</th>
<th>Will change my teaching % yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching learners to work with LGBTQI pts</td>
<td>4.5</td>
<td>4.4</td>
<td>77%</td>
</tr>
<tr>
<td>Flipping your classroom</td>
<td>4.7</td>
<td>4.6</td>
<td>100%</td>
</tr>
<tr>
<td>Working with struggling learners</td>
<td>4.3</td>
<td>4.5</td>
<td>100%</td>
</tr>
<tr>
<td>Curriculum Development</td>
<td>3.7</td>
<td>3.6</td>
<td>61%</td>
</tr>
<tr>
<td>Active Teaching and Learning in Large Group Settings</td>
<td>4.5</td>
<td>4.3</td>
<td>83%</td>
</tr>
<tr>
<td>E teaching and learning</td>
<td>4.4</td>
<td>4.1</td>
<td>88%</td>
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<tr>
<td>Teaching tips for workplace settings</td>
<td>4.2</td>
<td>4.2</td>
<td>57%</td>
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</tbody>
</table>
IEE Summer Teaching Camp 2016

SAVE THE DATES
Thursday, August 4 – Friday, August 5, 2016
3b: Foundations of Teaching Course *(new)*

- For faculty: to ensure basic teaching skills competency
- Target start date: July 2016
- Audience
  - Encourage all new full-time faculty members to participate
  - Open to ALL faculty
  - Faculty suggested by department
Collaborative Program

Institute for Excellence in Education

JH Faculty Development Program

Office of Faculty Development
Foundations of Teaching: Components

1. Online Modules
   • Teaching Principles and Learning Theory
   • Feedback
     • To be done before in-person session

2. Three to Four Hour Live Session: “Foundations of Teaching” Experiential Course
   • Offered 3-4 times a year; once at Bayview and twice at East Baltimore campus

3. Encouraged Additional Activities
   • Work on a project with IEE to develop peer and expert coaching
   • Attend additional programs focused on education
3c: Peer Feedback and Coaching (new)

• Peer Coaching:
  – Pilot: Bayview GIM Hospitalists
  – Pilot: PM+R

• Expert Coaching
  – Being Developed by Office of Faculty Development in collaboration with IEE and JH Faculty Development Program
#4. Nurturing a Community of Educators
4a: IEE Education Conference and Celebration
2016 Conference Schedule (1)

SAVE THE DATE: Next year’s conference is Friday, March 11, 2016

8:00 – 9:15 Welcome and Plenary Address
9:30 – 11:00 Oral Abstracts
11:00 – 11:30 Faculty Education Scholar Grant Updates
11:30 – 12:15 Poster Presentations
12:15 – 1:00 Lunchtime: Networking and Table Talks
2016 Conference Schedule (2)

1:00 – 1:40 Awards Celebration
1:45 – 3:15 Workshops To Be Determined
3:20 – 4:50 Educational Scholarship Shark Tank
   - Total available: $10K
4:50 – 5:00 Conference Wrap-Up
4b: Medical and Biomedical Education
Grand Rounds

Renee Blanding, MD
Assistant Professor of Anesthesiology and Critical Care Medicine
Vice President of Medical Affairs, Johns Hopkins Bayview Medical Center
Medical Director of Johns Hopkins Bayview Medical Center operating room
Member of the IEE Managing Board
Education Grand Rounds

**Fall: October 28, 2015**
Diane M. Hartmann, MD  
Senior Associate Dean for Graduate Medical Education  
Professor of Obstetrics and Gynecology  
University of Rochester School of Medicine and Dentistry

**Winter: February 22 or 23, 2016**
William C. McGaghie, PhD  
Professor of Medical Education  
Northwestern University Feinberg School of Medicine

**Spring: April 19, 2016**
Ronald Vale, PhD  
Professor of Cellular and Molecular Pharmacology  
University of California, San Francisco

**Summer: June 2016**
To be Scheduled
THANK YOU!