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HISTORY OF MEDICINE: Non Invasive Prenatal Testing

Lori Munsie DO PGY II OB/GYN

During the 1950's and 1960's there were many social, political and medical advancements. During these times we observed the introduction of hormone contraceptives, women working outside of the home, and the rise of feminism. It was during this time there were accelerated

births in the United States marking a famous generation called baby boomers. Little was known about prenatal testing during this time though fifty years prior the first invasive amniocentesis was reported and one hundred years earlier publications of chromosomal abnormalities were described.

In 1866, John Langdon Down, an English physician, described a population of patients having similar physical characteristics and decreased intellectual ability. This syndrome was later named Down Syndrome (DS). In 1932 chromosomal non-disjunction was suggested as the cause of DS and in 1959 French physician Jerome Lejeune discovered that DS is a result of a chromosomal abnormality, describing three copies of chromosome 21 or Trisomy 21. This discovery, along with its association of child bearing women over the age of 35 was the initial basis of prenatal screening. Prior to this discovery invasive testing in the form of amniocentesis was used for the antenatal detection of hereditary disorders and prenatal management of patients with Hemophilia A and Duchenne's muscular dystrophy. Then, in 1968, enzyme assays using cultured fetal cells in amniotic fluid resulted in the first prenatal diagnosis of Trisomy 21. Prenatal screening for DS during the 1960's to 1980's was simply "What is your age?" If the patient was 35 or older she was offered counseling and diagnostic testing. During this time the prevalence of DS was 9.5

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per 10,000 births. By 1976 amniocentesis became common use in the United States for those women who were at risk and women over the age of 35. Trisomy 21 continues to be the most frequent chromosomal abnormality with an occurrence rate of 1 in 800 births. Women over the age of 35 continue to have a higher risk of DS and other chromosomal abnormalities, however only 20% of infants with DS are born to women older than 35 years.

In the mid 1980's biochemical markers were identified and an association of low alphafetoprotein (AFP) levels in the second trimester increased the risk of aneuploidy, including DS. Later in that decade the biochemical marker, human chorionic gonadotropin (HCG), was discovered along with the relationship of decreased levels and the association with DS, and increased levels associated with Trisomy 18. It was during this time that AFP measurements in combination with maternal age were rapidly introduced. By the early 1990's two more markers were discovered during the second trimester, uncongugated estriol and inhibin A. These discoveries lead to combination biochemical marker testing along with adjustments for age, race, diabetic status, maternal weight, and multiple gestations in order to detect a patient's risk for aneuploidy. This also widened the screening population to women of all ages during their pregnancy. Later, Papp A was studied and added as a first trimester biochemical marker.

During this time the use of ultrasonography was emerging as a non-invasive tool for screening and diagnosis throughout all medical specialties. In 1979, Acuson Corporation, a California company marketed their first ultrasound model. Ultrasonography was first used to assess the intrauterine environment and progressed to

screening for fetal aneuploidy. Fetal biometry which includes crown rump length, biparietal diameter, head circumference, femur length, and abdominal circumference was used as basic components to determine the well-being of the fetus. Many ultrasound techniques and descriptions of fetal malformations were published throughout this time and ultrasonography (US) was implemented as part of routine prenatal care especially for those pregnancies identified as high risk. As technology advanced, with the advent of high resolution scanners and the transvaginal transducer, early detection of fetal abnormalities was achieved. In 1992 in the British Medical Journal, Kypros Nicolaides and his group published a landmark paper describing the measurement of nuchal translucency between 11 and 14 weeks as a screening for DS. Nuchal translucency is a lucent zone observed in the posterior neck seen by US in the first trimester. This measurement if enlarged may be suggestive of fetal structural defects or aneuploidy.

Non-invasive prenatal testing was further advanced in 2011 with the launch of MaterniT21, a prenatal test from the San Diego biotech company Sequenom. This was then followed by subsequent brands Ariosa's Harmony, Verinata's Verifi and Natera's Panorama. These test for genetic material in maternal circulation or cell free DNA from the developing placenta. Cell free DNA can be isolated in maternal circulation as early as the fifth week of pregnancy and increases modestly with gestational age to 21 weeks then increases rapidly until term. These levels are increased in pregnancies with Trisomy 21 (DS) and Trisomy 13 (Patau Syndrome), but not Trisomy 18. The test detects 99% of fetuses with Trisomy 21, 98% of fetuses with Trisomy 18 and 80% of those with trisomy 13, with false positive rates of <0.1%. XY analysis can also be evaluated and fetal sex determined with >99% accuracy.

Therefore this test has high sensitivity and specificity and reduces the number of women identified as high risk with serum testing.

Using combination screening techniques of serum markers and ultrasound affords the highest detection rates (DR) for DS and other aneuploidy pregnancies. Modern noninvasive testing can identify high risk pregnancies and can greatly decrease further recommendations for more invasive testing. First trimester screening performed between 11 0/7 and 13 6/7 weeks using AFP alones yields a 64 -70% DR. When this includes Papp-A and free BHCG, DR accuracy can reach 82-87% with false positive rate (FPR) of 5%. An independent second trimester screening that includes the serum triple markers MSAFP, HCG, uncongated estriol yields 69%, and Quadruple screen including the above plus inhibin A gives a DR of 81%. Serum integrated testing that includes first trimester papp-A and second trimester Quad screen reaches DR of 85-88%. Integrated screening of AFP, Papp-A, plus second trimester Quad screen reach 94-96% DR and FPR of 1%. Alternatives may include a stepwise sequential testing protocol where first trimester screening is performed and if positive diagnostic testing is offered; however, if negative, then second trimester testing is offered. Final risk assessment incorporating both first and second trimester non-invasive testing and ultrasound yields greater than 95% DR.

Non-invasive prenatal testing for DS and other aneulploidy has very high detection rates when used in combination of serum biochemical markers and ultrasound. Ultrasound alone in the second trimester has low sensitivity and specificity when used as screening only. Screening tests should be offered to all pregnant women and those who have positive tests with high detection rates and low false positive rates. As with all

screening tests, patients should be counseled prior to testing and referred for invasive diagnostic services for positive results.

HOW I DO IT: Inspire Residents to Complete Research Projects with Ease?

Dan Miulli, DO, MS, FACOS Traditional & Neurosurgery Program Director

Physicians in training learn and practice research to formulate, ingrain, and measure, a method of thought, investigation, and evaluation necessary for physicians to have multi-lateral information exchange and communication with experts in areas of scientific and medical discovery, knowledge, and analysis, in order to continuously and efficiently improve human health and patient care.

Physicians are professionals, and like all learned individuals, they must continuously evaluate and correct their procedures, behaviors and methods of practice. Research understanding, a foundation of medicine, teaches physicians to communicate scientifically with many individuals, navigate through increasing amounts of data that may be clouded by the poor application of scientific methodology or analysis, choose key facts within reams of material, formulate opinions, convert those thoughts into reproducible actions, and then measure the quality of those actions. Residents who complete annual research projects can become efficient at those tasks, but how can they do that with ease?

Like most tasks, ease is completed with time tested procedures, organization, and support. At ARMC we have faculty who had research skills and want to do research, Page 4 JARMC

residents who want to do research, residents who had ideas, and residents who had some training in research. Although residents have requirements for scholarly activities, but rarely annual, minimal research projects were produced, minimal publications, and minimal grants; and it was difficult and time consuming. We knew we could not continue the same methods and procedures of delivering research and get different results, namely annual scholarly projects produced in peer reviewed media.

We asked the residents what obstacles they perceived. They reported; time, having interest and dedication in a project not their own, and no reward for completing faculty or someone else's work. We then determined the residents' area of interest, initiated a timeline each year, measured residents' involvement, provided two weeks of devoted research time per academic year, and provided support by a research coordinator.

A research coordinator is paramount and can supervise 25-50 residents carrying out research projects. The coordinator reviews research project data collection, prepares for and follows up reports from Institutional Review Board (IRB) meetings, implements annual research symposium, quarterly research didactics, and monthly question and answer sessions, facilitates research abstract preparation for national and regional meetings and research papers for publication, prepares quarterly residency program research updates and quarterly research newsletter, and organizes back-up coordination for projects. The research coordinator must be experienced in data management and research supervision, have excellent computer skills, IRB administrative experience, grant writing and administration, research design expertise, and knowledge of statistical analysis, with skill in statistical software analysis and of course

communication and interpersonal skills. The research coordinator must schedule and meet with the residents, develop checklists and timelines, and constantly remind residents of those same project timelines.

Research is a learned skill which must be taught and reinforced. When beginning with first year residents the process should be easy such as attempting database research and evaluating what the resident, faculty, or department did clinically. Then in subsequent years the information can be developed into a prospective project investigating how to correct or improve what was done, or the information can be formulated into new ideas. A "Concept Sheet" is a simple questionnaire which can be utilized to determine the resident's interest and connect that interest to a worthwhile project. In addition to their interest, the Concept Sheet asks for a title, narrows the hypothesis, determines the mentors and research study group, study inclusion and exclusion criteria, study design, primary and secondary endpoints, scales used for comparison, budget, target publication, dates for project start, IRB submission, data collection, analysis, and first draft, and future implications all in a easy to answer format. It can be completed in as little as fifteen minutes and is a must provide a realistic determination for the resident, coordinator, research mentor, and program director of the project feasibility. After the Concept Sheet is completed the resident must perform a literature search answering four to five simple questions:

- 1. Cite major articles that support your idea and why
- 2. Cite one major article that does not support your idea and why
- 3. Cite articles that have performed same analysis including meta-analysis, multi-institutional studies, single institutional studies, case reviews, literature reviews and why
- 4. Cite articles that have performed similar analysis including meta-analysis, multi-institutional studies,

single institutional studies, case reviews, literature reviews and why; and if a new concept 5. Cite an article that support the projects safety and why.

After the literature review is completed the application for IRB must be completed and submitted. Finally a timeline which must have the support of the research mentor, faculty, program director and research coordinator must be implemented. The timeline is concurrent with the research education that takes place:

July- Concept sheet completed, reviewed by mentor, coordinator, and statistician.

August- Literature review, Concept Sheet revised and reviewed by mentor and coordinator. Submit IRB proposal.

September- Formalize study design. IRB approval, create query for database, meet with statistician to determine data analysis needs. Review with mentor and coordinator.

October- Download data. Review with mentor and coordinator.

November- Chart review and analysis completed. Review with mentor and coordinator.

December- Review data with statistician. Run statistics.

January- Create abstract. Review with mentor and coordinator.

February- Review requirements for authors, create draft of paper, and make revisions.

March- Paper reviewed by mentor, re-reviewed, and re-reviewed. Review with mentor and coordinator. April- Submit paper for publication. Review with mentor and coordinator.

May- Submit poster for conference. Review with mentor and coordinator.

This simple way of engaging residents, providing an outline and timeline for research, with the assistance of a residency coordinator has consistently resulted in the delivery of research projects and presentations 100% of the time over three years for first year residents. More importantly, the research has taught residents to navigate huge amounts of data, formulate opinions, convert thoughts into reproducible actions, measure the quality of

one's actions, and strives to understand patients and patients' medical conditions.

Research is to see what everybody else has seen, and to think what nobody else has thought ~Albert Szent-Gyorgyi

SPOTLIGHT ON RESEARCH: General Surgery

How does obesity affect the perioperative outcomes of pancreaticoduodenectomy? Analysis of the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) database.

Mohammed Atemimi, MD MPH Samir Johna, MD

Background

Earlier studies reported controversial results of the association between obesity and the outcomes of pancreaticoduodenectomy (PD). The objective of this study is to identify the effect of obesity on intraoperative events and postoperative outcomes of PD.

Methods: The American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) database (2005-2009) was surveyed for patients who underwent elective PD. Five BMI categories were created (underweight:<18.5, Normal: 18.5-<25, Overweight: 25-<30, Obese: 30-<40, and morbidly obese ≥ 40). Analysis of variance (ANOVA) test, chi square test and multivariate logistic regression models were used to test the association of BMI categories with intraoperative events (length of postoperative hospital stay, operative time and intraoperative blood transfusion) and postoperative outcomes (mortality, overall

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complication and individual postoperative complications).

Results

We identified 6,502 patients with PD. Of the total cohort, 3.5% were underweight, 37.6% were normal, 35.8% were overweight, 20% were obese and 3.1% were morbidly obese. 30-day mortality was not significantly different among patients with different BMI categories (range 2.17%-4.46%, P=0.38). Overall morbidity (21.6%-32.6%, P<0.001) was higher among overweight (OR=1.24 95% CI 1.08-1.43), obese (OR=1.30 95% CI 1.10-1.53) and morbidly obese (OR=1.66 95% CI 1.20-2.30) patients compared to normal weight patients. In adjusted multivariate analysis, obesity and morbid obesity were associated (P<0.01) with deep organ space infection, pulmonary embolism, failure to wean from the ventilator 48 hours after surgery and sepsis. Intraoperative blood transfusion was not different (p=0.37) between patients with different BMI categories, while operative time (P<0.001) and hospital stay (p<0.001) were longer among obese patients.

Conclusion

Obesity is an independent risk factor of operative complexity and serious postoperative complications following PD. This information is helpful for surgeons when planning elective PD for obese patients.

The measure of greatness in a scientific idea is the extent to which it stimulates thought and opens up new lines of research.
~Paul A.M. Dirac

FASCINATING CASE: Moyamoya Disease

Vivek Ramakrishnan DO, Kevin Sidhu OMSIV, Zubin Sedghi OMSIII, Dan Miulli, DO, MS, FACOS Neurosurgery

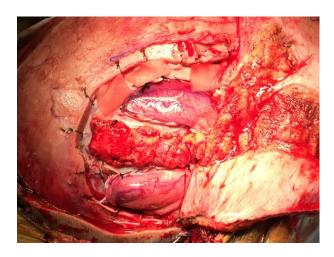
We present the case of a 31-year-old righthanded Hispanic female with a past medical history significant for hypertension and hyperthyroidism uncontrolled for two weeks, who came to the emergency room with elevated blood pressure and a complaint of right-sided weakness, particularly in her right arm. The patient also had one-day change in mental status, palpitations, and an unsteady gait.

On examination, patient was tachycardic, hypertensive, with an enlarged thyroid gland, right side weakness and slurred speech. Labs showed low thyroid stimulating hormone (less than 0.005) and greatly elevated T3/T4 levels (651/23.07 respectively). Also, troponin was elevated x 3. ECG showed ST junctional depression. Initial head CT was negative.

She was admitted to the stroke unit and treated for ischemic stroke, thyrotoxicosis, and hypertension. Carotid doppler showed bilateral carotid plagues with less than 50% stenosis. MRI/MRA of the brain showed left cortical diffusion restriction consistent with ischemia and severe occlusion of the bilateral intracranial Internal Carotid Artery (ICA) and collateral flow. Further workup showed significant stenosis in extracranial vessels, so a cerebral angiogram was performed. Cerebral angiogram revealed significant decreased blood supply to the skull, dura, and brain surface bilaterally, but more so on the left, overall resembling Moyamoya disease.



As such, an encephalomyosynangiosis was performed in order to anastomose the superficial temporal arteries with the internal cortical vessels. On postoperative day one patient was extubated and had a GCS of 15.



The patient's diagnosis was (1) thyroid storm due to Grave's disease which precipitated a (2) left sided ischemia revealing an underlying (3) moyamoya disease.

Discussion

Characterized by symptoms of catecholamine excess, thyrotoxic crisis or thyroid storm is defined as an acute hypermetabolic state

that is brought on by an excess of thyroid hormones. Dysfunction of homeostatic mechanisms that govern the endocrine and peripheral physiology can precipitate a massive release of thyroid hormones in patients with hyperthyroidism. While it is important to recognize and treat a patient with thyroid storm, further investigation into all of the potential sequelae is warranted. That is, the suspicion of a possible association between thyroid storm and ischemia.

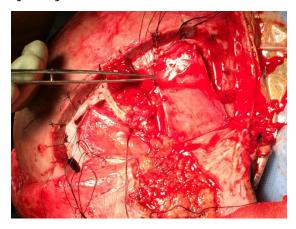
Although the CT Scan was negative, further ischemic work-up with MRI and MRA revealed ischemia and blood vessel abnormalities. These findings led to a cerebral angiogram, which was consistent with Moya Moya disease. This is unusual in Hispanic adult women.

Moyamoya, translated as a puff of smoke from the Japanese, is a neurovascular disease characterized by progressive arterial narrowing which results in the formation of vascular collaterals and ultimately places patients at risk for cerebral ischemia and infarction. Typically, the distal ICAs are affected first, followed by the proximal MCAs and ACAs. While moyamoya disease classically affects cerebral perfusion bilaterally, cases of cerebral ischemia after an episode of thyroid storm revealed a unilateral predominance of moyamoya vessels on cerebral angiogram—consistent with moyamoya syndrome. This has been described by Suzuki as moyamoya vessels with more unilateral involvement and an association with certain preexisting conditions.

In a case report by Chaloupka, the majority of patients incurred manifestations of moyamoya after receiving treatment for thyroid storm. While there is no clear pathoetiological mechanism, cross-reactivity

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of autoantibodies coupled with a transient surge of thyroid hormone post-treatment are believed to influence the sudden onset of diffuse cerebral ischemia in areas supplied by moyamoya vessels.



Treatment of moyamoya is surgical and circumvents the afflicted arteries through anastomosis or synangiosis. While the direct approach relies on anastomosis via a superficial temporal artery-MCA bypass,

indirect techniques employ synangiosis to increase cerebral blood flow. Encephaloduro-arterio-synagniosis (EDAS) utilizes a graft from the superficial temporal artery that is laid on top of the ischemic surface whereas the Encephalo-myo-synangiosis (EMS) utilizes the temporalis muscle to allow revascularization in the area of ischemia over a period of 6-8 wks.

Although more frequent in the Asian population, the association of Moyamoya disease with thyroid disease is less common and even less frequent in the Hispanic population with only 12 cases having been reported in the literature. Although an extremely rare cases of infarction was discovered in this case review, following standard stroke protocols to investigate an acute and persistent neurological deficit, despite a negative CT Scan, with MRI and other vascular studies can lead to the appropriate diagnosis which can be treated.

Please congratulate
Vivek Ramakrishnan, Robert Dahlin, Omid Hariri, Syed A.
Quadri, Saman Farr, Dan Miulli, and Javed Siddiqi
for their original publication in
Surgical Neurology International
Anti-epileptic prophylaxis in traumatic brain injury: A
retrospective analysis of patients undergoing craniotomy
versus decompressive craniectomy
January 2015

RESEARCH PROJECTS AT ARMC

Are you interested in research? Are you a student, resident, staff, or faculty member at ARMC? Please contact the offices listed below to participate in any of the following ongoing studies. We thank all the faculty primary investigators of the following projects.

Emergency Medicine 909-580-6370	0
Alconcel, Franklin D.O PGY III MacNeil, Colin D.O PGY III Yuen, Ho-Wang M.D	Estimated Time of Arrival of EMS for Trauma Alerts and Activations
Kwong, Eugene M.D	
Alconcel, Franklin D.O PGY III Minahan, Thomas D.O	Jet Ski Douche Injury
Avera, Leigh D.O PGY II Neeki, Michael D.O	The Expanding Role of Paramedics in the Optimal Utilization of Emergency Department Services
Ayvazian, Arbi D.O PGY II Neeki, Michael D.O	Manifestation of Necrotizing Fasciitis: A Retrospective Review of Patients Presenting to a San Bernardino County Emergency Department Hemophilia
Batt, Joshua D.O PGY II Neeki, Michael D.O	1.Osteophatic manipulative Treatment in Tarsal Somatic dysfunction: A Case Study 2. Photo of the Month-Eye Emergencies: Retinal Detachment 3. Hypotension After Large Volume Therapeutic Paracentesis in the Emergency Department Myth or Reality?
Begnoche, Amy D.O PGY IV Widenski, Amber D.O PGY III Minahan, Thomas D.O	Tpa in Ischemic Stroke: The Difference Between 3 and 4.5 hours
Begnoche, Amy D.O PGY IV Widenski, Amber D.O PGY III Jones, Kevin, D.O Pennington, Troy D.O Lee, Carol M.D	A Comparison of Outcomes After Intravenous Thrombolysis With Recombinant Tissue Plasminogen Activator
Boulos, Sarah D.O PGY II Yuen, Ho-Wang M.D	1.A Retrospective Review of Anaphylaxis and Allergy Emergencies in the Emergency Department of a Large Urban County Hospital in Southern California 2. Hemophilia 3. Vertebral Artery Dissection
Bronson, James D.O PGY I	Cross-Sectional Study of Prevalence of Violence in the ED Comparison of the Efficacy of ER Physician vs Sonographic Directed RUQ U/S for the Diagnosis of Acute Chole
Clark, Carrie PGY Neeki, Michael D.O	1. Methamphetamine and Congestive Heart Failure in Young Adults 2. The Use of TPA in Psychogenic Pseudo Stroke
Clark, Carrie PGY Yuen, Ho-Wang M.D	Methamphetamine and Congestive Heart Failure in Young Adults
Crouch, Andrew D.O PGY II Miulli, Dan D.O Lawrence, Teckah M.Ed Neeki, Michael D.O	Comparative Cerebrovascular Disease and Methamphetamine Abuse: A Population Based Study
Crouch, Andrew D.O PGY II Neeki, Michael D.O Piibe, Remy M.D	Do Resident Physicians Know About Cost of Medical Care in Their Hospital? The Effect of Methamphetamine on Size and Distribution of Stroke
Fenati, Greg D.O PGY II Mamic, Marko D.O PGY II Piibe, Remy M.D	Link Between Allergies and Psychological Disorders
Fenati, Greg D.O PGY II Piibe, Remy M.D	Mental Illness and Allergies: Is There a Correlation? A Retrospective Study in an Urban County Hospital Emergency Department.
Lee, David D.O PGY II Nguyen, Anh M.D	Hypotension After Therapeutic Paracentesis in the Emergency Department: Myth or Reality?
Hendy, Dylan D.O PGY I Neeki, Michael D.O	A prospective Randomized Comparative Outcome Study of Emergency Medicine Physician Treatment of Minor Burn After a Short Training Workshop By a Burn Specialist Compared to Burn Specialist Care of Similar Patients.
Hintzsche, Gabriel D.O PGY II Yuen, Ho-Wang M.D	1. A Retrospective Review of Anaphylaxis and Allergy Emergencies in the Emergency Department of a Large Urban County Hospital in Southern California 2. Vertebral Artery Dissection.
Horan, Jennifer H D.O PGY II Lux, Pamela D.O	The Prevalence of Minor Burn Care in the Emergency Department

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Neeki, Michael D.O	
Inglis, Travis D.O PGY I	A Retrospective Analysis of the Outcome of Patients Diagnosed with Apparent Life Event (ALTE),
Seng, Sakona D.O	in the Emergency Department to Determine if the Current Protocol for Work-Up and/or
3,	Admission is Warranted
Johansson, Jens D.O PGY II	1. Early Administration of Long-Acting Insulin in the ER In the Setting of DKA; and Its Impact On
Neeki, Michael D.O	Mortality/Morbidity/Length in the ICU/Costs
Seng, Sakona D.O	2. A Case of Suspected Wound Botulism
Johnson, Joshua D.O PGY III	1. Why Would We Interview This Applicant? Items in the Application for Emergency Medicine
Minahan, Thomas D.O	Residency that really Matter
	2. Bath Salts and Increased ICH
Johnson, Joshua D.O PGY III	Appropriate Itilization of EMS Transport to the Emergency Department
Mittal, Geetanjli D.O PGY III	AND THE STREET OF THE WORLD STREET AND A
Johnson, Joshua D.O PGYIII Sin, Arnold M.D	1. What Items on the ERAS Application Correlate Most Closely with Matching to an AOA-Approved Emergency Medicine Residency
Sin, Arnold M.D	2. Survey: Patient Preference Regarding Electronic Communication
Kulczycki, Michael D.O PGY III	Prevalence of Methamphetamine use Among Young Adults with Congestive Heart Failure
Neeki, Michael D.O	2. Fecaloma with Urinary Retention
Kulczycki, Michael D.O PGY III	Gender Differences in the Association of Methamphetamine Abuse and Congestive Heart Failure
Nguyen, Ang M.D	dental 2 monotonic in the respondent of reconstruction of reconstr
Kuzmack, Edward D.O PGY I	A Retrospective Analysis of the Outcome of Patients Diagnosed with Apparent Life Event (ALTE),
Yuen, Ho-Wang M.D	in the Emergency Department to Determine if the Current Protocol for Work-Up and/or
Seng, Sakona D.O	Admission is Warranted
Lee, David D.O PGY II	Hypotension After Large Volume Therapeutic Paracentesis in the Emergency Department
Nguyen, Ang M.D	
Mamic, Marko D.O PGY III	1. EMS Trauma Alerts and Activations Estimated Time of Arrival vs. Actual Time of Arrival
Neeki, Michael D.O	2. Ovarian Torsion Missed on Ultrasound and CT
Minahan, Thomas D.O	m .: 1 m .: 0: 1
Mamic, Marko D.O PGY III	Testicular Torsion Study
Mamic, Marko D.O PGY III Neeki, Michael D.O	1. The Rate of Testicular Detorsion in Emergency Medicine: A Survey Study 2. Closed Reduction Technique for a Posterior Sternoclavicular Dislocation: A Case Study
Minahan, Thomas D.O	3. Mental Illness and Allergies: Is There a Correlation? A Retrospective Study in Urban
Minuman, Thomas 2.0	County Hospital Emergency Department
Minera, Gabriella D.O PGY IV	1. EM Resident Lifestyle Survey (Project)
Neeki, Michael D.O	2. Alcohol Intoxication in a Two-Month-Old (Case Report)
Minera, Gabriella D.O PGY IV	Progressive Lifestyle Changes of Emergency Medicine Residents
Welch, Mary D.O PGY IV	
Mittal, Geetanjli D.O PGY III	1. Ambulance Utilization to Arrowhead Regional Medical Center
Neeki, Michael D.O	2. Splenic Infarct Associated with Pseudomonal Bactermia and Endocarditis
Mistry, Jamshid D.O PGY I	Spinal Epidural Abscess, Identifying Challenges in Diagnosis at a Level 2 Trauma Center
Neeki, Michael D.O Mistry, Jamshid D.O PGY I	Case Report: Tension Hydrothorax, an Unusual Case
Piibe, Remy M.D	Case Report: Telision nyurothorax, an oliusual Case
Mistry, Jamshid D.O PGY I	A Novel Approach to Diagnosis. The SEA Score.
Lux, Pamela D.O	Milove approach to Biagnosis. The Shi Score.
Mistry, Jamshid D.O PGY I	A Double Blinded Prospective Study: TXA
Neeki, Michael D.O	· · ·
Nguyen, Edward D.O PGY II	1. Early Administration of Levemir in the ER in the Setting of DKA and its Effect on Length of
Seng, Sakona D.O	Stay in the ICU, Mortality and Morbidity, and Costs
ON 11 MI 11 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	2. Guillan Barre with Succinylcholine
O'Kelley, Timothy D.O PGY III	A Ten-Year Retrospective Review of Survival Outcomes in Patients Undergoing Emergency
Toomari, Nojan D.O Kwong, Eugene M.D	Thoracotomy at a Level II Trauma Center
Davis III, Vivian D.O	
Neeki, Michael D.O	
Orchard, Derek D.O PGY IV	Survey International Medicine and the Obstacles Involved
Kwong, Eugene M.D	
Orchard, Derek D.O PGY IV	What are the CT Ordering Habits of ER Residents, How are They Being Educated, and How are
Rundio, Jeffrey D.O. PGY IV	Their Decisions Influenced?
Neeki, Michael D.O	
Richard, Aurore D.O PGY I	A Prospective Randomized Comparative Outcome Study of Emergency Medicine Physician
Neeki, Michael D.O	Treatment of Minor Burn After a Short Training Workshop by a Burn Specialist Compared to Burn
Dundio Loffres D.O.DOV.W	Specialist Care of Similar Patients Survey of Training Practices Pagarding the Hea of CT Scane in the ED
Rundio, Jeffrey D.O PGY IV Lee, Carol M.D	Survey of Training Practices Regarding the Use of CT Scans in the ED
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Than, Tan D.O PGY I Neeki, Michael D.O	Pneumecephalous Post Epidural
Than, Tan D.O PGY I Neeki, Michael D.O	The Expanding Role of Paramedics in the Optimal Utilization of Emergency Department Services
Welch, Mary D.O PGY IV Neeki, Michael D.O	Lifestyles of Emergency Medicine Residents
Widenski, Amber D.O PGY III Lee, Carol M.D	1. A Comparison of Outcomes After Intravenous Thrombolysis With Recombinant Tissue Plasminogen Activator
Family Medicine 909-580-6236	2. Intracranial Hemorrhage Following Bath Salt Use: A Case Report
Anand, Sumeet D.O PGY III	Smoking Cessation: Questionnaire Regarding the Self-Efficacy of Smokers
Whitson, Denise FNP	Shoking cessation. Questionnane regarding the sen-emeacy of smokers
Diep, David D.O Sim, Genny M.D	Breast Cancer Screening and Detection at the Mobile Clinic as Compared with the Detection Rates in the County of San Bernardino.
Mowjood, Siraj D.O	in the county of San Bernarumo.
Elkarra, Manal M.D PGY III	The Effect of Three Years of Arrowhead Regional Medical Center Health Fair Screening on Breast
Lanum, David M.D Ghanevati, Mahin D.O	Cancer Incidence Idiopathic Acute Transverse Myelitis
Brown, Joachim D.O	Idiopathic Acute Transverse Myentis
Hammes, Jillian, D.O PGY III Brown, Joachim, D.O	Locked-In Syndrome Secondary to Cerebral Infarction Involving the Cervical Spine, Pons and Medulla
Khajehgian, Sara, D.O PGY III Brown, Joachim D.O	Hemihypertrophy with a Ret Oncogene Negative Bilarteral Pheochromocytoma, Thyroid Papillary Carcinoma, C-Cell Hyperplasia, Intratechal Nucleus Pulposus, and Breast Fibroadenoma: A Case Report
King, Nathan D.O Balinos, Febbis M.D	Significance of Colon Cancer Screening at ARMC Health Fair
Knotts, Nicole, M.D	A Retrospective Analysis of Prostate Cancer Screening Conducted at Arrowhead Regional Medical
Balinos, Febbis M.D Nyirenda, Ndeka, M.D PGY III	Center Cancers Fairs Formalizing a Pathway for Non-Urgent Psychiatric Referrals Between Mckee Family Medicine
Ebert, Emily M.D	Clinic and Phoenix Behavioral Health Clinic
Nyirenda, Ndeka, M.D PGY III Ebert, Emily M.D	Performance Improvement Project at McKee Family Health Clinic
Prasad Chandarana, Aarthi, D.O PGY III	Implementation of a Patient Centered Medical Home at Fontana Health Center: Identifying Obstacles and Exploring Solutions
Brown, Joachim D.O Ramirez, Milton M.D, PGY III	Incidence of Cervical Cancer at Arrowhead Regional Medical Center Cancer Screening Events
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Robinson, Emily D.O B. Ito, LCSW	PM Group Visit Pilot
Thomas, Scott, D.O PGY III	Hypertrophic Cardiomyopathy
Tompkins, Michael, D.O PGY III Raval, Niren D.O	Group-Based Lectures for the Patient: An Assessment of Utility and Efficacy
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Welch, Patrick D.O PGY III Diep, David D.O PGY II	Evaluating ARMC Mobile Clinic's Effectiveness in Helping to Lower the Rate of Medically Uninusred in the San Bernardino County Through Arrowcare
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The 10th Annual ARMC Research Day will be held on Friday May 29, 2015 in the Oak Room.

NEW INNOVATIONS IN MEDICINE: Emergency Ultrasound

Dalia Nassman, DO PGY II Emergency Medicine

Known to the public mainly as a radiologic modality reserved for pregnant women, ultrasound has been routinely used for this purpose for decades. However, it has extended its reach far beyond the world of obstetrics and has increasingly made its presence known in the emergency department. Coveted for its diversity in utility along with its efficiency and ease of use, without the risks of exposure to radiation posed by other imaging modalities, ultrasound has been integrated by emergency department providers into daily practice in more ways than ever before.

Ultrasound's claim to fame within the ED mainly began with the FAST (Focused Assessment with Sonography in Trauma) exam in trauma patients, which initially was used to assess for free fluid (presumably blood) within the intraperitoneal and pericardial spaces, and was then extended to include evaluation for pneumothorax. Studies even suggest superiority of ultrasound in comparison to chest X-ray in detecting pneumothorax in trauma patients. Ultrasound is also well-known for its routine use as a diagnostic adjunct for cholelithiasis and cholecystitis in the assessment of biliary colic, as well as for the identification of other intrabdominal pathologies in populations that are less favorable for exposure to the radiation of CT, such as appendicitis and even intussusception in pediatric populations. Ultrasound has become the imaging modality of choice for assessing testicular and ovarian pathologies such as torsion and abscess. In addition, as mentioned earlier, ultrasound is utilized in

obstetric emergencies such as ectopic pregnancy and placental abruption.

However, ultrasound has an extended spectrum of use that may not be as wellknown to those outside of the ED, including ocular examination for retinal detachment. differentiation between cellulitis and abscess (not only in the skin; it can be used to assess the peritonsillar and retropharyngeal spaces as well), and even the identification of certain fractures and tendon ruptures. The RUSH (Rapid Ultrasound for Shock and Hypotension) exam is a valuable tool in assessing the volume status of the crashing patient and involves a sequence of visualizing various organs to aid in identifying the etiology of hemodynamic instability. As a part of the exam, cardiac wall motion is assessed (as is the pericardial space), the IVC is evaluated for compressibility, the intraperitoneal cavity is assessed for free fluid (in the same manner as in the FAST exam), the aorta is visualized for potential aneurysm, and the lungs are imaged for possible pneumothorax.

Thanks to ultrasound, a wealth of information can be yielded almost instantly from a patient that is too unstable to go to the radiology department for imaging. Ultrasound can also be instantly converted from a diagnostic to procedural tool; it can be used to identify pericardial tamponade, and then be used to guide the needle in the pericardiocentesis. On the same note, it can be utilized in both the identification and drainage of an abscess. It is also used to guide needle insertion for joint aspirations, paracentesis, nerve blocks, and even lumbar punctures. The utilization of ultrasound in improving accuracy of certain procedures has not only being increasingly encouraged, but is even becoming the standard of care in many institutions. In addition to guiding needle insertion, ultrasound can be applied

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to go one step further and visualize guidewire positioning within the internal jugular or femoral vein in order to prevent accidental arterial dilation.

A meta-analysis done by Gillman, investigated the incidence of accidental arterial dilation when ultrasound was used to confirm venous guidewire placement, and found that there were no incidents of accidental arterial dilation during 53 central line placements.

While there are entire fellowship programs dedicated to emergency medicine ultrasound, it is a tool that is available for use among many different providers in the emergency department. Ultrasound is being encouraged for use by nurses as an aid in peripheral line placement, and new products are continually being introduced into the market intended for this particular use.

Ultrasound devices as small as a remote control, have recently been unveiled, with their portability adding to ultrasound's ease of use and efficiency. An added advantage of ultrasound over infrared devices in peripheral vein placement is that it provides information not only about vessel anatomy and location, but also about depth as well, which is a useful feature that infrared devices do not usually offer. Ultrasound tablets also follow the trend of portability, as well as add-on devices that can be placed on

probes of nearly any ultrasound device that are specifically designed to aid in needle guidance, making it easier to track and predict the needle's trajectory within soft tissue. The greatest advantage of this type of device is that it does not require any specialized ultrasound machine or customized needles, and can simply be used in conjunction with what is already available in the department.

As these developments continue to assist in increasing the availability and convenience of ultrasound within the emergency department, it can potentially be extended to all areas of the hospital and become a modality that is more universally used to enhance bedside care.

Raja, Ali S.Jacobus, Christian H. et al. How Accurate Is Ultrasonography for Excluding Pneumothorax? *Annals of Emergency Medicine*. 2012; 61(2):207-208.

Gillman LM, Blavas M, Lord J, et al. Ultrasound confirmation of guidewire position may eliminate accidental arterial dilatation during central venous cannulation. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*. 2010; 18:39.

Congratulations to

Viet Tran and Patrick Mulroy who were awarded 3rd place at the ACOI Convention and Scientific Sessions for their research

Percentage of Patients with Gram + Bacteremia, Meningitis, Hospital Acquired Pneumonia, Severe Sepsis and Septic Shock Who Achieve a Therapeutic First Vanco.

Baltimore, Maryland October 2014

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And, for the purist, there is another free Directory -- Beall's Scholarly Open Access --

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"Scholarly Open Access is a critical analysis of scholarly open access publishing." Also known as "Beall's" after the author's last name.

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Important Numbers

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The schedules for the following issues are:

2nd Issue 2015

History of Medicine
How I do it
Spotlight on Research
Fascinating Case
Innovations in Medicine
Psychiatry
Family Medicine
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3rd Issue 2015

History of Medicine
How I do it
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Innovations in Medicine
Traditional
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Neurosurgery
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Psychiatry

Dates to remember...

- MLE-Professionalism: Ethics, Attitudes, Beliefs and Skills Wednesday March 25th, 12:30-2:30pm Interns only (Lunch provided)
- ♣ Deadline for submissions to the next issue of JARMC: April 20th, 2015
- Abstract submissions for the ARMC Research Conference must be submitted by April 29, 2015.