

**EIGHTEENTH ANNUAL**  
**Obstetrics, Gynecology & Women's Health**  
**Resident and Fellow Research Day**  
**May 22, 2013**

*University of Hawai`i*  
*John A. Burns School of Medicine*  
*Department of Obstetrics, Gynecology & Women's Health*

Hanauma is a marine embayment formed within a volcanic cone and located along the southeast coast of the Island of Oʻahu in the Hawaiian Islands

The word “hana” means “bay” and “uma” means “shelter” in the Hawaiian language. There are two etymological interpretations of the second part of its name. One interpretation derives it from the Hawaiian word for curve, referring to either the shape of the feature or to the shape of the indigenous canoes that were launched there. Another stems from the indigenous hand-wrestling game known as “Uma”.

The bay was used as a recreational area by the Hawaiian nobility (Aliʻi), including King Kamehameha and Queen Kaʻahumanu, who fished, entertained visitors, and sponsored games there. It was also used as a layover and as a navigational lookout point, since the waters between Oahu and Molokai are at times difficult.

Hanauma is both a Nature Preserve and a Marine Life Conservation District (the first of several established in the State of Hawaiʻi). Reflecting changes in attitude, its name has changed over time from Hanauma Bay Beach Park to Hanauma Bay Nature Preserve. About 400 species of fish are known to inhabit the bay. Hanauma Bay is known for its abundance of Green sea turtles, *Chelonia mydas*, known as Honu. Hanauma is a nursery ground for the immature turtles, which have their nesting grounds at French Frigate Shoals. It is also known for its abundance of parrotfish.

Description above is from WIKIPEDIA, The Free Encyclopedia

*cover: The “Hanauma Bay”, photo courtesy of Shantel Yadao*

**EIGHTEENTH ANNUAL  
Obstetrics, Gynecology & Women's Health  
Resident and Fellow Research Day**

**May 22, 2013  
Waialae Country Club  
4997 Kalia Avenue  
Honolulu, Hawai`i**



**University of Hawai`i  
John A. Burns School of Medicine  
Department of Obstetrics, Gynecology & Women's Health**





**IVICA ZALUD, M.D., Ph.D.  
PROFESSOR AND ACTING CHAIR  
DEPARTMENT OF OBSTETRICS, GYNECOLOGY AND WOMEN'S HEALTH  
UNIVERSITY OF HAWAII  
JOHN A. BURNS SCHOOL OF MEDICINE**

We welcome you to the 18th Annual Department of Obstetrics, Gynecology and Women's Health, John A Burns School of Medicine, University of Hawaii Research Day symposium. This event, created and organized through the combined efforts of our faculty and residents, was initiated to improve women's health care. The objective of this Research Day is to provide a format for residents and fellows to present their current research and to acknowledge recently completed research by our faculty. The research projects that are being discussed today give our residents and fellows experience conducting and presenting original research and an opportunity to generate discussion about women's health care needs. The knowledge and skills our residents and fellows gain will assist them to critically analyze medical literature and determine optimum evidence based practice to benefit their patients. We believe this experience would encourage them to continue to explore basic science, translational and clinical research opportunities in the future.

A special thanks goes to the entire Research Day symposium Planning committee and to our distinguished visiting professor Dr. Aaron Caughey. We hope that you will find this research symposium to be informative and thought-provoking. Please share your ideas about our department's research day strengths with us and any suggestions for next year's program.





**BLISS KANESHIRO, M.D., M.P.H.**  
**ASSISTANT PROFESSOR AND DIRECTOR OF RESIDENT RESEARCH**  
**DEPARTMENT OF OBSTETRICS, GYNECOLOGY AND WOMEN'S HEALTH**  
**UNIVERSITY OF HAWAII**  
**JOHN A. BURNS SCHOOL OF MEDICINE**

Welcome to the 2013 Resident Research Day. I congratulate our residents on the completion of their excellent projects and for your support of resident research. As in years past, our patients, hospitals, department, Hawaii Residency Program, faculty, visiting professor, research judges, teaching staff, medical students, nursing, ancillary and support staff have supported our residents as they accomplished this work. With each of these projects, we have seen again that the most interesting results are obtained by asking the right kinds of questions.

# GUEST SPEAKER & JUDGE

May 22-24, 2013



**AARON B. CAUGHEY, M.D., M.P.A., M.P.H., Ph.D.**  
**PROFESSOR AND CHAIR**  
**DEPARTMENT OF OBSTETRICS & GYNECOLOGY**  
**OREGON HEALTH & SCIENCE UNIVERSITY**

Aaron B. Caughey is Professor and Chair of Obstetrics and Gynecology and Associate Dean for Women's Health Research and Policy at Oregon Health & Science University in Portland, OR. His medical training was at Harvard Medical School and he also earned a Master's Degree in Public Policy from the Kennedy School of Government, and both an MPH in Epidemiology and a PhD in Health Economics at the University of California, Berkeley. His residency training was at the combined Brigham and Women's Hospital and Massachusetts General Hospital program and his fellowship in Maternal-Fetal Medicine was at the University of California, San Francisco. As faculty at UCSF, he served as Director of the Diabetes and Pregnancy Program, Director of Perinatal Research, and Director of the MFM Fellowship. His research is focused on utilizing epidemiologic, biostatistical, and decision analytic methods to examine clinical questions related to complications of term and preterm pregnancies, gestational diabetes, and prenatal diagnosis. His research has been funded by the NIH, AHRQ, and the Robert Wood Johnson Foundation. As a singer, he sang with the Back Bay Chorale in Boston and the San Francisco Symphony Chorus, earning two Grammy Awards. He lives with his wife, an MFM-geneticist, and their four energetic children in Portland.

**Wednesday, May 22, 2013**, Waialae Country Club

8:00 a.m. - 1:00 p.m., *"The Cesarean Epidemic: Etiologies, Outcomes, & Potential Solutions"*

OB/GYN Research Day Lecture

Participants: Faculty, Private Attending Physicians, Residents and Medical Students

**Thursday, May 23, 2013**, Kapi'olani Medical Center for Women & Children, Room 815

12:00 p.m. - 2:00 p.m., Stump the Professor

Attendees: Faculty, MFM Fellows, Residents on MFM

**Friday, May 24, 2013**, Kapi'olani Medical Center for Women & Children, Room 815  
7:30 a.m. - 9:00 a.m., MFM Fellowship Thesis Defense, *"Genetic Associations of Relaxin: Preterm Birth and Premature Rupture of Fetal Membranes"* by Frederico Rocha, M.D.

9:30 a.m. - 11:30 a.m., Review & Advise: Ongoing 2nd Year Research Projects

12:00 p.m. - 1:00 p.m. Fellows Lecture, "Mentorships and Career Development"

Attendees: Selected Faculty, Residents, MFM and Family Planning Fellows

# PAST RESEARCH DAY GUEST SPEAKERS

- 2012 **Deborah A. Wing, M.D.**, Professor of Clinical Obstetrics & Gynecology, Director, Division of Maternal-Fetal Medicine & Director, Maternal-Fetal Medicine Fellowship, University of California, Irvine, “*Updates in Cervical Ripening and Labor Induction*”
- 2011 **Andrew Berchuck, M.D.**, Director of Gynecologic Cancer Research, Professor of Gynecologic Oncology, Department of Obstetrics and Gynecology, and is Co-Director of the Duke Comprehensive Cancer Center Breast/Ovarian Cancer Program, Duke University Medical Center, Durham, North Carolina, “*Prospects for Individualized Treatment and Prevention of Ovarian Cancer*”
- 2010 **Leo R. Brancazio, M.D., FACOG**, Vice Chair for Patient Safety & Quality and Associate Professor, Duke University Department of Obstetrics and Gynecology, Duke University Medical Center, Durham, North Carolina, Medical Director at Duke University Hospital Labor and Delivery, Durham, North Carolina, “*The Ideal Cesarean Section Rate*”
- 2009 **Ruth Word, M.D., FACOG**, Professor of Obstetrics and Gynecology & Director, Urogynecology Research and the Human Biologic Fluid and Tissue Acquisition Core Laboratory, University of Texas Southwestern Medical Center, Dallas, Texas, “*New Insights into the Pathophysiology of Pelvic Organ Prolapse*”
- 2008 **Charles W. Weems, Ph.D.** Professor of Animal Science, CTAHR Animal Reproduction Research Laboratory, College of Tropical Agriculture and Human Resources, Department of Human Nutrition, Food & Animal Science, University of Hawaii, “*Establishment of Pregnancy*”
- 2007 **Robert Taylor, M.D., Ph.D.** Professor, and Vice Chair for Research, Department of Gynecology and Obstetrics, and Professor, Department of Cell Biology, Emory University School of Medicine, “*Cellular and Molecular Pathophysiology of Preeclampsia*”
- 2006 **Professor Warwick Giles, MB. BS(NSW), FRACOG, Ph.D(Syd.) DDU.CMFM** Conjoint Professor, The University of Newcastle, Callaghan, NSW, Australia and Director, John Hunter Hospital, Newcastle NSW, Australia, “*Fibronectin and other Markers of Preterm Delivery*”  
**James M. Roberts, M.D.** Senior Scientist and Director, Magee-Women’s Research Institute, Professor and Vice Chair (Research), Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh, “*Whither Toxaemia*”
- 2005 **Robert B. Jaffe, M.D., M.S.** Fred Gellert Endowed Chair in Reproductive Medicine & Biology, University of California, San Francisco, “*Angiogenesis and Ovarian Cancer*”
- 2004 **Diana W. Bianchi, M.D.** Chief of the Division of Genetics in the Department of Pediatrics at Tufts-New England Medical Center, Natalie V. Zucker Professor of Pediatrics and Obstetrics and Gynecology “*Circulating Fetal Nucleic Acids in Maternal Blood: Origin and Diagnostic Applications*”
- 2003 **Roy M. Pitkin, M.D.** Former Editor, *Obstetrics and Gynecology*, *Clinical Obstetrics and Gynecology*, Emeritus Professor and Chairman of Obstetrics and Gynecology, University of California, Los Angeles School of Medicine, “*Obstetric-Gynecologic Research, 1953 - 2002*”
- 2002 **James R. Scott, M.D.** Professor, University of Utah, Department of Obstetrics and Gynecology, Editor of *Obstetrics & Gynecology*, Co-Editor of *Clinical Obstetrics and Gynecology*, “*Pregnancy in Transplant Patients*”
- 2001 **William Droegemueller, M.D.** Clinical Professor and Chairman Emeritus, University of North Carolina, Department of Obstetrics and Gynecology, Associate Editor of *Obstetrics and Gynecology*, “*Don’t Look Back...Someone is Gaining on You. A Discussion of Mentoring*”
- 2000 **Robert Israel, M.D.** Chief of Gynecology, University of Southern California, Department of Obstetrics and Gynecology, Associate Editor of *Obstetrics and Gynecology*. “*Endometriosis: A Continuing Conundrum*”
- 1999 **David A. Grimes, M.D.** Vice President of Biomedical Affairs Family Health International, Associate Editor, *Obstetrical and Gynecological Survey*, *Contraception*, Former Professor and Vice-Chairman, Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco, “*Evidence-based Medicine in Obstetrics and Gynecology: the Paradigm for the Next Century*”
- 1998 **Roy M. Pitkin, M.D.** Editor, *Obstetrics and Gynecology*, Editor, *Clinical Obstetrics and Gynecology*, Former Professor & Chairman of Obstetrics & Gynecology, University of California, Los Angeles School of Medicine, “*The Peer Review System in Medical Publishing*”
- 1997 **John T. Queenan, M.D.** Professor and Chairman of Obstetrics and Gynecology, Georgetown University School of Medicine & Chief of Georgetown University Hospital since 1980, Editor-in-Chief of *Contemporary Obstetrics and Gynecology*
- 1996 **Moon Kim, M.D.** Richard L. Neiling Chair, Professor & Vice-Chairman of Obstetrics and Gynecology, Ohio State University, University Medical Center, Associate Editor, *The American Journal of Obstetrics and Gynecology*, “*Fertility and Environment*”

# PAST RESEARCH DAY AWARD RECIPIENTS

## ***Best Overall Research Project Award***

- 2012 **Justin C. Bohrer, M.D.** *"Obstetrical Outcomes in Patients with Low-lying Placenta in the Second Trimester"*
- 2011 **Judy A. Honegger, D.O.** *"Rates of Elective Induction Between 34 0/7-38 6/7 Weeks Gestation at Kapiolani Medical Center for Women and Children"*
- 2010 **Pai-Jong Stacy Tsai, M.D., M.P.H.** *"Racial Differences in Perineal Body Length in First Stage of Labor"*
- 2009 **Shera L.C. Sugibayashi, M.D.** *"Effectiveness of Examining Amniotic Fluid Arborization in Diagnosing PPRM in Early Pregnancies"*

## ***Most Potential to Impact Clinical Practice Award***

- 2012 **Maxine Karimoto, M.D.** *"Improving HPV and Pap co-testing screening rates for women 30 years and older in the Kapi'olani Women's Obstetrics and Gynecology Outpatient Clinic"*
- 2011 **Kassondra S. Grzankowski, M.D.** *"Microsatellite Instability in Endometrial Cancer in Patients with HNPCC"*
- 2010 **Celeste S. Adrian, M.D.** *"Assessment of the Accuracy of Information Regarding Emergency Contraception on the Internet"*
- 2009 **Karen A. Soules, M.D.** *"Does Cell Phone-Bluetooth Technology for the Outpatient Management of Diabetes in Pregnancy Improve Patient Compliance and Satisfaction when Compared with Traditional Methods of Blood Sugar Reporting?"*

## ***Best Study Design Award***

- 2011 **Lauren Millet, M.D.** *"Rates of Bacteriuria in Laboring Women with Epidural Analgesia-Continuous vs. Intermittent Bladder Catheterization"*
- 2010 **Pai-Jong Stacy Tsai, M.D., M.P.H.** *"Racial Differences in Perineal Body Length in First Stage of Labor"*
- 2009 **Maria G. Barrett, M.D.** *"Knowledge and Misconceptions of Intrauterine Devices in Adolescent Patients"*

## ***First Place Award***

- 2008 **Christie K. Fujimoto, M.D.** *"The Effect of Methamphetamine Use on the Placenta"*
- 2007 **Aya Sultan, M.D., Ph.D.** *"Association of Ovarian Cancer and Atypical Endometriosis"*
- 2006 **Reina M. Ahern, M.D.** *"Knowledge and Attitudes of Emergency Contraception in Hawaii's Adolescents"*  
**Renee L. Sato, M.D.** *"Antepartum Seafood Consumption and Mercury Levels in Newborn Cord Blood"*
- 2005 **Reni A. Y. Soon, M.D.** *"Comparison of Active Phase and Second Stage of Labor in Adolescents and Adults"*
- 2004 **Scott D. Eaton, M.D.** *"EKG Changes Occuring with Magnesium Administration for Preterm Labor"*
- 2003 **Sapna M. Janas, M.D.** *"Rate of Complication from Third Trimester Amniocentesis Performed at the Fetal Diagnostic Center"*
- 2002 **Ian A. Oyama, M.D.** *"Local Anesthetic for use in Colposcopic Biopsies"*  
**Melissa J. Lawrence, M.D.** *"Impact of Fetal Fibronectin Testing at Kapi'olani Medical Center"*
- 2001 **Seema Sidhu, M.D.** *"Randomized, Double-Blind Trial of Rectal Misoprostol Versus Oxytocin in Management of the Third Stage of Labor"*
- 2000 **Deborah D. Geary, M.D.** *"TDx Surfactant/Albumin Ratio and Lamellar Body Count: Effect of Blood and Meconium Contaminants on Fetal Lung Maturity Assays"*
- 1999 **Steven M. Nishi, M.D.** *"Sample Adequacy of Endocervical Curettage (ECC) Compared with Endocervical Brush"*
- 1998 **Julie Ann Henriksen, M.D.** *"Nitric Oxide in the Human Placenta"*
- 1997 **Cheryl Leialoha, M.D.** *"Uriscreen, a Rapid Enzymatic Urine Screening Test for the Detection of Bacteriuria in Pregnancy"*
- 1996 **Christine Brody, M.D.** *"Vaginal Birth After Cesarean Section in Hawaii: Experience at Kapi'olani Medical Center for Women and Children"*



# RESEARCH DAY PROGRAM

## *Wednesday, May 22, 2013*

8:00 a.m. *Registration & Continental Breakfast*

8:35 a.m. *Welcome Remarks and Introduction of Maternal Fetal Medicine Fellow by Ivica Zalud, M.D., Ph.D., Chair*

8:45 a.m. *“Genetic Associations of Relaxin: Preterm Birth and Premature Rupture of Fetal Membranes”  
by Frederico Rocha, M.D.*

9:00 a.m. *Introduction of Aaron Caughey, M.D., Ph.D. by Bliss Kaneshiro, M.D., M.P.H., Director of Resident Research*

9:05 a.m. *“The Cesarean Epidemic: Etiologies, Outcomes, & Potential Solutions”  
by Aaron Caughey, M.D., M.P.A., M.P.H., Ph.D.*

9:55 a.m. *Introduction of Resident’s Research Presentation’s Rules by Bliss Kaneshiro, M.D., M.P. A.*

<b>TIME</b>	<b>PRESENTER</b>	<b>ABSTRACT</b>
10:00 a.m.	Lynne Y. Saito-Tom, M.D., M.S.	“Intrauterine Device Use in Overweight and Obese Women”
10:15 a.m.	Jaimie M. Johnson, M.D.	“Men’s Attitudes, Beliefs, and Roles in Pregnancy and Childbirth: An Ethnographic Study in Nepal”
10:30 a.m.	Scott A. Harvey, M.D., M.S.	“Choice of Effective Contraception Among Native Hawaiian Women”
10:45 a.m.	Tracee Y. Suetsugu, M.D.	“Identifying Precursor Lesions to Serous Borderline Ovarian Tumors”
11:00 a.m.	Lauren A. Jenkins, M.D.	“Non-invasive Hemoglobin Monitoring in Pregnant Women”
11:15 a.m.	Shannel R. Adams, M.D.	“Characteristics of Obstetric Population with Elevated Shock Index”

### **2013 JUDGING PANEL:**



*Aaron B. Caughey, M.D., M.P.A., M.P.H., Ph.D.  
Professor and Chair  
Department of Obstetrics & Gynecology  
Oregon Health & Science University  
Portland, Oregon*



*Ian A. Oyama, M.D., M.S., M.B.A., FACOG  
Assistant Professor & Chief of the Division of  
Urogynecology & Pelvic Reconstructive Surgery  
Department of Obstetrics & Gynecology  
John A. Burns School of Medicine  
University of Hawaii  
Honolulu, Hawaii*



*Nisha Parikh, M.D., M.P.H.  
Cardiologist Cardiovascular Epidemiologist  
Queen’s Heart Physician Practice  
The Queen’s Medical Center  
Honolulu, Hawaii*

11:30 a.m. *Buffet Lunch and Judges’ Deliberations*

12:30 p.m. *Awards Presentation - Ivica Zalud, M.D., Ph.D. and Aaron B. Caughey, M.D., M.P.A., M.P.H., Ph.D.*

# Frederico G. Rocha, M.D.

*Frederico Guuilverme Rocha, M.D.*

## *Residency Honors/Awards:*

- \* 2011 Golden Journal Award – Presented by the Ob-Gyn graduating chief residents of the University of Hawaii.

*Hurley Medical Center, Michigan State University, Flint, Michigan*

## *Honors/Awards:*

- \* 2010 Outstanding Medical Student Resident Educator Award Michigan State University FAME Graduating Class of 2010 – Presented to the Best Teaching Resident.
- \* 2009 Outstanding Medical Student Resident Educator Award Michigan State University FAME Graduating Class of 2009 – Presented to the Best Teaching Resident.
- \* 2008 Bayer Healthcare Pharmaceuticals – Best Teaching Resident of the Year Elected by Junior Residents of Hurley Medical Center

*Universidade Federal de Minas Gerais, Belo Horizonte Brazil*

*Language Fluency (other than English): Portuguese*

*Hobbies & Interests: Soccer, Jiu-Jitsu, playing with my boys*

*Place of Birth: Belo Horizonte, Brazil*

*Medical Interests: Critical Care and High-Risk pregnancies*

*Future plans upon graduation: Obstetrics Critical Care*

*Research Experience:* 2011 NIH-RMATRIX carry-forward award (U54RR026136) (U54MD007584)-\$15,000 Hawaii Biospecimen Repository (HiBR) Post-Doctoral Fellow – Project title: Genetic Susceptibility of preterm birth in the Hawaii Filipino population. Manuscript submitted to AJOG  
2003-2004 Research Assistant, Pediatric Pulmonology – Federal University of Minas Gerais

*Publications/Presentations:* Zalud I, **Rocha F** - Artifacts, Pitfalls and Normal Variants. Donald School Journal of Ultrasound in Obstetrics and Gynecology, January-March 2012;6(1):1-8

Woo, G.W., **Rocha, F.G.**, Gaspar-Oishi, M., Bartholomew, M.L., Thompson, K.S., Placental Mesenchymal Dysplasia, Am J Obstet Gynecol. 2011 Dec;205(6):e3-5. Epub 2011 Aug 22.

Ibiapina CC, Alvim CG, **Rocha FG**, Costa GA, Silva PCA. Childhood community acquired pneumonia: etiology, diagnosis and treatment. Revista Medica de Minas Gerais 2004;14 (1-S1): S19-S25.

**Rocha FG**, Horton JS, Bryant-Greenwood GD. Relaxin and Preterm Birth. Italian Journal of Anatomy and Embryology. Accepted 2013.

*Book Chapters:* **Rocha F**, Zalud I. Fetal biometry. chapter In: Donald School textbook of ultrasound in Obstetrics and Gynecology – 3rd edition May 2011 Jaypee

Zalud I, **Rocha F** – Artifacts in Ultrasound – Chapter in: Donald School textbook of ultrasound in Obstetrics and gynecology – 3rd edition May 2011 Jaypee



# Genetic Associations of Relaxin: Preterm Birth and Premature Rupture of Fetal Membranes

***Rocha, Frederico G.; Slavin, Thomas P.; Li, Dongmei; Tiirikainen, Maarit; Bryant-Greenwood, G.D.***

***\* Rocha FG, Slavin TP, Li D, Tiirikainen MI, Bryant-Greenwood GD. Genetic associations of relaxin: preterm birth and premature rupture of fetal membranes. Am J Obstet Gynecol. 2013, In-Press***

***Objectives:*** Relaxin H2 (RLN2) is a systemic hormone (sRLN) produced by the corpus luteum, whereas decidual (dRLN) only acts locally. Elevated sRLN is associated with spontaneous preterm birth (sPTB) and elevated dRLN with preterm premature rupture of membranes (PPROM). Associations were sought between single nucleotide polymorphisms (SNPs) in the RLN2 promoter with levels of dRLN and sRLN in Filipino patients with sPTB, PPRM or normal term delivery.

***Study Design:*** Stringent selection of women with sPTB (n=20) or PPRM (n=20) and term controls (n=20) was made from over 8,000 samples from Filipino patients delivered at 34-36 weeks gestation. Twelve SNPs were genotyped on maternal blood with exclusion of nine based on high linkage disequilibrium (LD) or being the same as in the control population. Quantitative immunocytochemistry on parietal decidual tissue was performed (n=60) and sRLN measured by ELISA in a subset of patients (n=21).

***Results:*** SNP rs4742076 was significantly associated with PPRM ( $p<0.001$ ) and increased expression of dRLN ( $p<0.001$ ). The genotype TT had increased dRLN in PPRM ( $p<0.05$ ). SNP rs3758239 was significantly associated with both PPRM and sPTB ( $p<0.01$ ), and genotype AA had increased dRLN expression ( $p<0.05$ ). The sRLN showed a trend of higher levels in PPRM and sPTB, but was not significant.

***Conclusions:*** SNP rs4742076 in the RLN2 promoter was associated with increased dRLN expression and PPRM while SNP rs3758239 was associated with both PPRM and sPTB in these Filipino patients. Specific homozygous genotypes were identified for both SNPs and were shown to be associated with increased dRLN tissue expression.

***Support:*** This work was supported by grants from the National Institutes of Health: National Center for Research Resources (U54RR026136), the National Institute on Minority Health Disparities (U54MD007584), and National Cancer Institute (P30-CA071789-12S9)

# Shannel R. Adams, M.D.

*Shannel R. Adams, M.D.*

*Oregon Health Sciences University School of Medicine,  
Portland, Oregon*

*B.A. Medical Ethics, Duke University,  
Durham, North Carolina*

*Hobbies & Interests: Baking, basketball and home  
improvement projects*

*Place of Birth: Portland, Oregon*

*Medical Interests: Reproductive, Endocrinology and Infertility*

*Future Plans upon Graduation: Reproductive, Endocrinology and Infertility Fellowship*



# **Characteristics of Obstetric Population with Elevated Shock Index**

***Adams, Shannel R.; Savala, Michael; Lai, Bridget; Aeby, Tod C.***

**Objective:** To investigate the characteristics of obstetric patients admitted for labor with an elevated shock index (SI), heart rate/systolic blood pressure,  $> 1.15$  and their intrapartum and postpartum outcomes.

**Study Design:** A retrospective cohort study.

**Materials and Methods:** This is a retrospective cohort study among obstetrical patients admitted to Kapiolani's Labor and Delivery between January 2012 and May 2012. Inclusion criteria include a recorded shock index  $> 1.15$  and gestational age  $> 32w0d$ . Demographics, health related variables, and the frequency of intrapartum and postpartum outcomes including: protracted labor, chorioamnionitis, postpartum hemorrhage, blood transfusion, admission to intensive care units, postpartum anemia, and postpartum endometritis were collected via review of the electronic medical record.

**Results:** One hundred and seventy seven subjects were reviewed. Of the 177 charts 171 met inclusion criteria. Six patients were excluded for gestational age  $< 32w0d$ . The maximum shock index was 2.19. Prevalence of intrapartum and postpartum outcomes are as follows: protracted labor 48.5% (65/171), chorioamnionitis 27.5% (47/171), postpartum hemorrhage 8.7% (15/171), blood transfusion 5.8% (10/171), endometritis 5.8% (10/171), ICU admissions 5.3% (9/171) and postpartum anemia 48.5% (83/171).

**Conclusion:** Although SI is validated in the literature as a reliable tool in trauma and shock, little is known about its utility in the obstetric population, specifically the intrapartum and postpartum population. SI is a valuable tool for medical units, surgical units, the emergency department, and intensive care units. SI started to be flagged in the Hawaii Pacific Health obstetric population at Kapiolani Women's and Children over 1 year ago, but a SI of  $> 1.15$  has an unclear meaning in this population and no algorithm for action. SI index may have some value in the obstetric population, but no preliminary studies have been done. This study is the first to characterize this population. SI may have utility in an obstetric patient population in terms of associated poor intrapartum and postpartum outcomes, including chorioamnionitis, postpartum hemorrhage, need for blood transfusion, and admission to intensive care units. This study is a preliminary study in which outcome frequencies will be used to guide a prospective case control study.

**Support:** None



# Scott A. Harvey, M.D., M.S.

*Scott Alexander Harvey, M.D., M.S.*

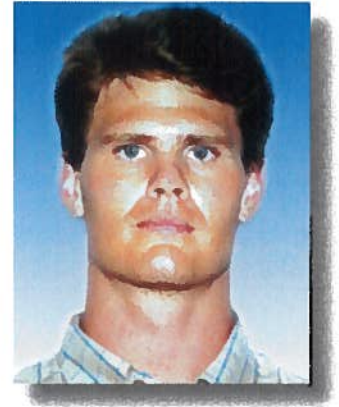
## *Residency Honors/Awards:*

- \* 2012 Resident Teaching Award, Medical Student Teaching Award
- \* 2011 Medical Student Teaching Award

*University of Hawaii, John A. Burns School of Medicine*

## *Honors/Awards:*

- \* 2010 Alpha Omega Alpha Honor Society, "Aloha Award" Attain Lasting Optimal Health for All
- \* Manana Opportunity Grant winner (annually for three years)
- \* 2008 Achievement International Student Scholar Award Scholarship (three time winner aimed at development/improvement of school, community relations and international medicine)
- \* Recruitment Outreach Officer Award



*M.S. Physiology, University of Hawaii, Honolulu, Hawaii*

*B.S. Sports Medicine, Pepperdine University, Malibu, California*

## *Honors/Awards:*

- \* 2000 - 2004 Athletic Scholarship, Water Polo Department
- \* 2001, 2002, 2003 Best Defensive Player
- \* 2002, 2003 Team Captain
- \* 1997-2001 National Junior Water Polo Team Participant

*Hobbies & Interests: I enjoy spending time with my daughter, Kaileilani, playing water polo, surfing, hiking, channel swimming between islands, and whatever else I can do in the water. I also enjoy building things, my most recent endeavor is creating an awesome bed frame for my daughter with carvings of turtles!*

*Place of Birth: Downey, California.*

*Medical Interests: Critical Care*

*Future plans upon graduation: I am hoping to obtain a fellowship position in Critical Care under the American Board of Surgery.*

*Research Experience: Research Investigator under the direction of Jill Omori, M.D. Along with a fellow classmate, I designed a study that observed reasons for homelessness in Honolulu, along with public opinions regarding homelessness. August 2007 - August 2008.*

*Research Assistant, under the direction of Patrick Murray, M.D, in a research project focusing on evaluating infection incidence in open fractures in patients using a WoundVacc device or with standard wound care. June 2007 - August 2007.*

*Clinical Research Coordinator and Project Manager for Kaiser Permanente (2005-2006)*

*Publications/Presentations: Minaglia, S; Kaneshiro, B; Soules, K; Harvey, S; Grzankowski, K; Millet, L; Oyama, I; Assessment of Internet-Based information regarding urinary incontinence. Poster Presentation: AUGS 32nd Annual Scientific Meeting, Rhode Island Convention Center in Providence, RI September 15-17, 2011,*

**Harvey SA, Burlingame J, Davis J, Terada KY. Cancer-related Maternal Mortality. ASCO Abstract. Chicago, IL June 4-8, 2010**

**Harvey, SA; Pettigrew, Kate A; and Omori MD, Jill S. Assessment of Barriers Leading to Unemployment in the Homeless: the Links Between Homelessness, Poor Health, and Unemployment. WGEA Regional Conference. Asilomar Conference Center, Pacific Grove, CA April 25-27, 2010**

**Harvey, S.** History, Physical, and Surgical Findings for a Male with Stage II/B Adenocarcinoma of the Colon, presented at: Queen's Hospital Tumor Board Conference; Honolulu, Hawaii. 2009, April.

**Harvey, S., Soli, B.** History, Physical, and Laboratory Findings for a Patient with Myelodysplastic Syndrome, Septic Thrombophlebitis, and Septic Emboli, presented at: Hawaii State Pulmonary Conference; Honolulu, HI. 2008, October.

**Harvey, S.** The Basics of Problem Based Learning, presented at: John A Burns School of Medicine "PBL Demonstration Day"; Honolulu, Hawaii. 2007, December.

**Harvey, S., Omori, J.** Legal and Ethical Aspects of the John A Burns School of Medicine Homeless Outreach and Medical Education Project. Poster presented at: State Capital Fair; Honolulu, Hawaii. 2007, May.

**Harvey, S.** Master's Thesis Defense: "Clinical Ballistocardiography" 2006, May 15.

## **Choice of Effective Contraception Among Native Hawaiian Women**

**Harvey, Scott A.; Kaneshiro, Bliss; Elia, Jennifer; Salcedo, Jennifer; Hayes, Don; Soon, Reni**

**Objective:** To determine whether Native Hawaiian women who were choosing a contraceptive method were more or less likely to choose a highly effective method of contraception than non-Hawaiian women.

**Design:** This was a database review of the Hawaii State Department of Health (DOH) Title X family planning visits.

**Materials and Methods:** The Hawaii DOH Title X program, a federal grant program that provides comprehensive contraception services, has 37 clinics throughout Hawaii. At the end of every patient encounter, a client visit record is generated that includes demographic information, the patient's intentions regarding pregnancy, and the patient's primary contraceptive method. Client visit records from 2006-2012 were de-identified and the most recent visit for women aged 15 to 44 who were avoiding pregnancy (i.e., not currently pregnant and using a contraceptive method) were analyzed. Contraceptive choices were further categorized according to effectiveness, and "highly effective methods" included the contraceptive implant, the intrauterine device, and male and female sterilization. Bivariate analyses and multiple logistic regressions were employed to determine if a difference existed in patient's choosing "highly effective contraception" between Native Hawaiian and non-Hawaiian women.

**Results:** 53,285 women were included in the analysis. Twenty three percent of the women self-reported being at least part Native Hawaiian (n=12,264). Overall, highly effective methods of contraception were chosen by 8.4% (n=4,465) of all women in the analysis. Variables evaluated for confounding included: age, language (primary English speaking or not), citizenship (United States or other), income ( $\leq 100\%$ , 101-200%,  $\geq 201\%$  FPL), insurance (uninsured, public, private, military, or unknown), number of visits at a clinic, clinic location (urban, suburban, or rural), and the year of the woman's visit.

Native Hawaiian women were significantly more likely to choose a "highly effective method" of contraception than non-Hawaiians (OR=1.77, 95% CI 1.66-1.89). This difference remained after controlling for insurance type and visit year (aOR = 1.29, 95% CI 1.21-1.38), and after stratifying by age (women age 15-29 aOR = 1.39, 95% CI 1.28-1.50; women age 30-45 aOR = 1.28, 95% CI 1.12-1.46).

**Conclusions:** Across all age groups, Native Hawaiian women participating in the DOH Title X program were more likely than non-Hawaiian women to use long acting reversible contraception and sterilization. The results of this study suggest that when able to access contraception, as in the Title X program, Native Hawaiians are more likely to choose highly effective methods of contraception than non-Hawaiians.

**Support:** None

# Lauren A. Jenkins, M.D.

*Lauren Anne Jenkins, M.D.*

*Residency Honors/Awards:*

*\* 2011 Systems Based Improvement Award (PGY-1)*

*Drexel University College of Medicine, Philadelphia, Pennsylvania*

*Honors/Awards:*

*\* Gross Anatomy Medical Scholar*

*\* Peer Evaluation Commendation*



*B.S. Major: Behavioral Neuroscience, Minor: Psychology, Lehigh University, Bethlehem, Pennsylvania*

*Honors/Awards:*

*Deans List*

*Departmental Honors – Biology Sciences*

*Institutional Honors – High Honors*

*National Society of Collegiate Scholars*

*Hobbies & Interests: Spending time with family and friends, boating, cooking and gardening*

*Place of Birth: Philadelphia, Pennsylvania*

*Medical Interests: Minimally Invasive Gynecologic Surgery and Preventative Medicine*

*Future Plans Upon Graduation: Plans to serve the women of Hawaii by providing quality and comprehensive care*

*Research Experience: Student Research Assistant, under the direction of John Nyby, Ph.D., Lehigh University Biological Science Department, Bethlehem, Pennsylvania. Research based on the reward properties of sex hormones and drugs in the house mouse, "Mus musculus". August 2003 - May 2005.*

*Student Research Assistant, under the direction of David Cundall, Ph.D., Lehigh University Biological Science Department, Bethlehem, Pennsylvania. Responsible for data collection for a study that evaluated the accuracy and repeatability of morphological measurements of water snakes. September - December 2004.*

*Publications/Presentations: Jenkins, L. "Conditioned Place Preference Using Morphine Sulfate". Poster presented at: Alpha Chi Sigma Professional Chemistry Fraternity Research Symposium and Lehigh University Undergraduate Research Symposium; 2004, April. (2004, April). (2004, April). (2004, April). Bethlehem, Pennsylvania.*

# Non-invasive Hemoglobin Monitoring in Pregnant Women

*Jenkins, Lauren A.; Delara, Ritchie M.; Aeby, Tod C.*

**Objective:** Acute hemorrhage is one of the most common obstetrical emergencies. Recently, considerable attention has been focused on massive hemorrhage protocols and methods to improve the management of obstetrical hemorrhage. The availability of rapid, non-invasive methods to measure hemoglobin could improve our ability to manage these patients, especially if the monitoring was able to return continuous readings. Devices that use spectrophotometry to measure hemoglobin, both at a single point in time and continuously have recently come on the market, but there is very limited information regarding their use in pregnant patients. Our concern is that the altered physiology of pregnancy may affect the ability of spectrophotometry devices to accurately measure hemoglobin in this population. To date, there is only one limited study that evaluates this technology specifically in the pregnant population. The goal of this non-inferiority study is to validate spectrophotometry as an accurate means of measuring spot hemoglobin in pregnant women, in anticipation of applying this technology in the setting of obstetrical hemorrhage.

**Design:** A descriptive non-inferiority study.

**Materials and Methods:** Pregnant women between 34 and 42 weeks gestation were recruited from Kapi'olani Medical Center for Women and Children between 4/22/13 and 4/30/13. Three noninvasive spot hemoglobin measurements were obtained with the Masimo Pronto 7 device, simultaneous to a blood draw for routine laboratory hemoglobin measurements. Our equivalence margin,  $\delta$ , was set at 1 g/dL based on the reported accuracy of the Masimo Total Hemoglobin device between 8 and 17 g/dL at  $\pm 1$  g/dL at one standard deviation. A power analysis determined that an N of 36 was required to have an 80% chance of demonstrating non-inferiority using an  $\alpha$  of 0.05 and a significance level of  $(1-2\alpha) \times 100$ , or 90% confidence interval. A two-sided T-test was used to perform a preliminary analysis of the data.

**Results:** As of 4/30/13, twenty-three patients had been enrolled and their data collected. Precision of the non-invasive hemoglobin measurements was confirmed with an average of the three measurements (0.226)  $\pm 2.8\%$  with 95% confidence limits. In evaluation of non-inferiority, using a confidence interval of 90% [ $(1-2\alpha) \times 100\%$ ], this analysis revealed a mean difference of -1.1942 (90% confidence interval, -0.9154 and -1.473) with a p value of 0.0001. This suggests that this technology does not meet our rigorous non-inferiority requirement of  $\pm 1$  g/dL. Bivariate fit of lab draw comparing the laboratory value to the by mean of the three Pronto 7 measurements reveals that the lab value may be calculated from the non-invasive hemoglobin measurement by multiplying the non-invasive value by a linear regression equation of lab value = Pronto 7 value  $\times 0.8017635$  and adding  $+ 1.382584$  ( $r^2 = 0.638761$ ,  $F < 0.0001$ ).

**Conclusion:** Based on this analysis of our preliminary data, this device, while precise does not appear to be accurate enough to replace laboratory hemoglobin draws. A review of the data suggests that the values are consistently over reported, and it is possible that they could be adjusted to more accurately reflect the true hemoglobin value. Recruitment of the entire cohort will ultimately need to be completed to determine the non-inferiority and utility of this device for measuring both spot hemoglobin values and continuous hemoglobin values in pregnant women.

**Support:** Masimo Corporation provided the Pronto 7 device, finger sensors, and light shields used during this study.

# Jaimie M. Johnson, M.D.

*Jaimie Mariko Johnson, M.D.*

## *Residency Honors/Awards:*

- \* *Ob/Gyn Resident Reporter Program Award, 2013 Annual Clinical Meeting, New Orleans*

*University of Florida College of Medicine  
Gainesville, Florida*

## *Honors/Awards:*

- \* *2009 Creativity Award*
- \* *2006 - 2007 Essentials of Patient Care/Exemplary Award*



*B.A. French Studies Smith College, Northampton, Massachusetts*

## *Honors/Awards:*

- \* *Graduated Magna cum laude*
- \* *Phi Beta Kappa, STRIDE Scholar, Gold Key Guide*
- \* *2000-2004 Dora Windes Zollman Scholarship for Academic Merit*
- \* *2000-2004 Dean's List and First Group Scholar*

*Language Fluency (other than English): French (advanced), Japanese (intermediate)*

*Hobbies & Interests: Yoga, aerial yoga and dance, island hopping, bicycling, calligraphy, origami*

*Place of Birth: Tucson, Arizona*

*Medical Interests: Global Health, Holistic Medicine, Complementary and Alternative Medicine, Yoga Therapy*

*Future Plans Upon Graduation: Global Women's Health*

*Research Experience:* Student Researcher at Smith College in Departments (STRIDE) Program with James Johnson, Ph.D., Professor and Chair, Exercise and Sports Studies Department. Collected and analyzed data comparing swimmers' and their coaches' perceptions of athletes' fatigue, motivation, and task aversion.

*Publications:* **Johnson, Jaimie.** Ed. Rinaldi, Bo and Mark Reinfeld. Waking Up! All you need for health, prosperity, and happiness. "A tale of two friends and a healing journey in Japan". [www.healthrealized.com](http://www.healthrealized.com). 2009, February 1.

55-Word stories: *Waga kanja no tame ni* (for my patient). **Johnson, Jaimie M.** Families, Systems, & Health, Vol 27(3), Sep 2009, 285.



# **Men's Attitudes, Beliefs, and Roles in Pregnancy and Childbirth: An Ethnographic Study in Nepal**

*Johnson, Jaimie M.; Craig, Sienna; Dye, Timothy; Kristensen, Sibylle; Samen, Arlene*

*\* Accepted for poster presentation at the 2013 North American Forum on Family Planning in Seattle (October 6-7, 2013).*

**Objectives:** This study aimed to learn men's attitudes, beliefs, and practices with respect to pregnancy and childbirth in a remote, rural area of Western Nepal and to identify any cultural, socioeconomic, religious, or structural barriers to care to develop culturally acceptable, sustainable, and educational programs.

**Design:** A descriptive, cross-sectional study.

**Materials and Methods:** We interviewed 40 Nepali men during a single session with assistance of Nepali interpreters in the town of Dunai in the district of Dolpa in August 2012. Questions in English were prepared, reviewed with the interpreter beforehand, and then used to guide the interviews. Men were approached at local businesses and on town streets and gave verbal consent for participation. Demographic data was also collected. The University of Hawaii Human Studies Program granted this study IRB exemption from federal regulations pertaining to the protection of human research participants. Local health officials approved the project in advance. Notes taken during the interviews were reviewed for recurrent themes.

**Results:** Of the 40 men, 37 (92.5%) were married. Twenty-eight identified as Hindu, three Buddhist, one Christian. Years of education ranged from 0-15 with mean 7.9. Number of children ranged from 0 to 6 (mean 2.5). Twenty-seven of the men's wives (67.5%) gave birth at home.

Nepali men reported they supported women during pregnancy and childbirth by earning money to provide nutritious meals. They often lived away from their families for work, sent money home, and were not present at delivery. For the men in the same town as their families, they often did not attend the births because they felt women should be involved in birthing. Some explained that their Hindu religion teaches them to not touch women while they are pregnant. For the men who attended high school and college, they learned about possible complications and benefits of attended deliveries at home, birthing centers, or hospitals. Some of the men shared the women's birth experiences and complications with other male friends and relatives. They cited that home births were usually the only option, since transportation to birthing centers or hospitals from their homes in the mountains was expensive, physically difficult, and time-consuming. Some men were interested in learning more about pregnancy and childbirth, but were more inquisitive about contraceptive methods. Some men explained that their Hindu religion does not permit contraception and asked about natural family planning methods. Some had discussed contraception with their wives, knew what method she was using, and wanted to learn more about other methods. Some shared that they had had vasectomies. To learn about contraception, some suggestions included one or multiple sessions or discussion groups with couples in their communities.

**Conclusions:** Men explained their culturally and religiously-defined roles with regards to pregnancy and childbirth. Limited, cost-prohibitive transportation posed the main barrier to seeking care in a hospital or birthing center. The more education they had received, the more informed the men were about possible complications. Community-based sessions on family planning, led by health workers or respected community members, would address their interest.

**Support:** Supported, in part, by the OB/GYN Research Division at the University of Hawaii and One Heart World-Wide.

# Lynne Y. Saito-Tom, M.D., M.S.

*Lynne Yukie Saito-Tom, M.D., M.S.*

*University of Hawaii, John A. Burns School of Medicine*

*Honors/Awards:*

- \* 2010 Colin C. McCorrison Scholarship
- \* 2009 Medical Student Training in Aging Research Award
- \* 2006 Hawaii Veterans Memorial Fund Scholarship, Eizo & Toyo Sakumoto Trust Scholarship, Hideko & Zenzo Matsuyama Scholarship

*M.S. Biomedical Engineering, Columbia University in the City of New York, New York*

*B.A. Major in Chemistry, Minor in Japanese, Willamette University, Salem, Oregon*

*Honors/Awards:*

- \* 2002 Meiji Endowment Summer Fellowship, Cancer Research Center of Hawaii
- \* 2001 William B. Webber Scholarship in Chemistry, Taul Watanabe Scholarship
- \* 1999 Dean's List

*Language Fluency (other than English): Intermediate fluency in Japanese*

*Hobbies & Interests: - Baking, fine dining, traveling, hiking, Japanese culture*

*Place of Birth: Honolulu, Hawaii*

*Medical Interests: Family Planning, Maternal Fetal Medicine, Underserved Populations*

*Future Plans Upon Graduation: Obstetrics/Gynecology Generalist in Hawaii*

*Research Experience: Research Associate, Columbia University, Taul Institute for Research on Alzheimer's Disease and the Aging Brain. 2005-2006*

*Research Assistant, Columbia University, Department of Biomedical Engineering 2003-2005.*

*Research Assistant, Isolating the Br locus and Identification of a Candidate Gene in the Bracchyrine Mutant Mouse, Univ. of Hawaii, Dept. of Anatomy and Reproductive Biology, (Mentor: Dr. Scott Lozanoff) 2002*

*Determining the Critical Micelle Concentration of Ricinoleic Acid in Willard Water, Willamette Univ., Dept. of Chemistry, (Mentor: Dr. Jeffrey Willemsen) 2002*

*Publications/Presentations: Saito, L, White, L, Bell, C, Chen, R, Petrovich, H, Ross, GW, Abbott, R, Launer, L, Masaki, K. Dietary Vitamin D in Mid-life and Cognitive Function in Late-life: The Honolulu-Asia Aging Study.*

*Presidential Poster Session, 2010 Annual Scientific Meeting of the American Geriatric Society, Orlando, FL*

*Oral Presentation, 2010 Hawaii Chapter of the American College of Physicians Scientific Meeting, Honolulu, HI*

*Paik DC, Saito LY, Sugirtharaj DD, Holmes JW. Nitrite-induced cross-linking alters remodeling and mechanical properties of collagenous engineered tissues, *Connect Tissue Res.* 2006;47(3):163-76.*

*Clark LN, Wang Y, Karlins E, Saito L, Mejia-Santana H, Harris J, Louis ED, Cote LJ, Andrews H, Fahn S, Waters C, Ford B, Frucht S, Ottman R, Marder K. Frequency of LRRK2 mutations in early- and late-onset Parkinson disease, *Neurology.* 2006 Nov 28;67(10):1786-91. Epub 2006 Oct 18.*



## **Intrauterine Device Use in Overweight and Obese Women**

**Saito-Tom, Lynne; Harris, Sara; Soon, Reni; Salcedo, Jennifer; Kaneshiro, Bliss; Siu, Andrea; Hawaii Pacific Health Research Institute (HPHRI), Dye, Timothy**

*\* Accepted for poster presentation at the 2013 North American Forum on Family Planning in Seattle (October 6-7, 2013).*

**Objective:** The objectives of this study were to: 1) compare the proportion of women of different body mass indices (BMI) who continued to use the levonorgestrel intrauterine device (IUD) at least 12-months after insertion and 2) describe IUD insertion and complications among women of different BMI categories.

**Design:** A retrospective cohort study.

**Materials and Methods:** We included patients who had a levonorgestrel IUD inserted between January 2009 and December 2010 at the Kapiolani OB/GYN outpatient clinic or the Department of OB/GYN (UCERA) faculty practice clinics based on ICD-9 and CPT codes. Data were collected through chart abstraction. The independent variable was BMI at IUD insertion, which was categorized as normal (BMI<25), overweight (BMI 25-30), or obese (BMI>30). Dependent variables were IUD continuation at 12 months, difficulty with IUD insertion, and complications (expulsion, infection, perforation, and failure). The outcomes were evaluated using bivariate analysis and multivariate logistic regression.

**Results:** Of the 286 patients who had an IUD inserted, 149 (52.1%) had a documented follow up visit more than 12-months after insertion. The mean BMI of the study population was 28.4 (SD 7.2). BMI was normal in 36.9% (55/149) of subjects, with 30.2% (45/149) being overweight, and 32.9% (49/149) obese. The study population was racially diverse [Asian 28.9% (43/149), Native Hawaiian 23.5% (35/149), Pacific Islander 17.4% (26/149), Caucasian 11.4% (17/149), Other/Unknown 18.8% (28/149)]. BMI categories differed by patient race ( $p<0.001$ ), insurance (Medicaid or Medicare, Private, Uninsured) ( $p=0.024$ ), and by the inserting provider (Attending Physician, Resident Physician, Nurse Practitioner) ( $p=0.002$ ).

Overall, 73.8% of women had their IUD in place 12-months after insertion. Twelve-month IUD continuation varied by age ( $p=0.03$ ) and insurance ( $p=0.001$ ). Bivariate analysis did not show a statistically significant difference in 12-month continuation between the BMI groups (normal 70.9%, overweight 80.0%, obese 71.4%,  $p=0.66$ ). After controlling for age and insurance, there remained no difference in 12-month continuation between BMI groups [normal vs. overweight OR=1.36 (95% CI 0.48-3.83),  $p=0.56$ , normal vs. obese OR=0.74 (95% CI 0.29-1.96),  $p=0.55$ ].

Among women with documented 12-month follow up ( $n=149$ ), 8.7% (13/149) experienced an IUD-related complication including 10.9% (6/55) of normal weight women, 4.4% (2/45) of overweight women, and 10.2% (5/49) of obese women ( $p=0.47$ ). Among all women who had an IUD inserted ( $n=286$ ), a difficult insertion was documented in 7.0% (20/286) of women, including 7.7% (8/104) of normal weight women, 4.5% (4/88) of overweight women, and 8.5% (8/94) of obese women ( $p=0.54$ ). The IUD could not be inserted in 1.2% (4/286) of patients (normal=1.9% (2/104), overweight=0.0% (0/88), obese=2.1% (2/94),  $p=0.41$ ).

**Conclusion:** Difficult IUD insertion and complications were rare, even among obese women. The 12-month IUD continuation rate in our racially diverse population was lower than previously reported in other studies. Due to a higher than expected loss to follow-up, further studies with adequate power are necessary to better understand 12-month IUD continuation in overweight and obese women.

**Support:** None

# Tracee Y. Suetsugu, M.D.

*Tracee Yoshiko Suetsugu, M.D.*

*University of Hawaii, John A. Burns School of Medicine*

*Honors/Awards:*

- \* 2008 Presidential Poster Session Awardee at American Geriatrics Society Annual Meeting*
- \* 2007 Medical Student Education Training in Aging Research Award*

*B.S. Biology/Economics, Washington University of St. Louis, Missouri*

*Hobbies & Interests: Gymnastics, hula*

*Place of Birth: Honolulu, Hawaii*

*Medical Interests: General Obstetrics and Gynecology*

*Future Plans Upon Graduation: Undecided*

*Research Experience: Undergraduate Research Assistant, Assisted with many laboratory procedures, made gels, ran protein gel electrophoresis and worked with knock-out mice, under the direction of Dr. Jane Wu, Washington University, St Louis, MO August 2002 - May 2003*

*Publications/Presentations: Suetsugu T, Masaki K, and Murkofsky R. Length of Service in Hospice for Geriatric Patients with Cancer and Non-Cancer Diagnoses Before and After the 1997 Balanced Budget Act. American Geriatrics Society Annual Meeting presidential poster session, Washington DC, May 2008*

**Suetsugu, T., Masaki, K., Murkofsky, R.** Length of Service in Hospice for Geriatric Patients with Cancer and Non-Cancer Diagnoses Before and After the 1997 Balanced Budget Act. Poster presented at: JABSOM Biomedical Symposium; Honolulu, HI. 2009, April.

**Suetsugu, T., Masaki, K., Murkofsky, R.** Length of Service in Hospice for Geriatric Patients with Cancer and Non-Cancer Diagnoses Before and After the 1997 Balanced Budget Act. Poster presented at: American Geriatrics Society annual meeting; Washington, DC. 2008, April.



# Identifying Precursor Lesions to Serous Borderline Ovarian Tumors

*Suetsugu, Tracee Y.; Killeen, Jeffrey*

**Objective:** To identify a tubal precursor lesion to serous ovarian borderline tumors.

**Background:** Abundant research has been done on tubal precursors to high-grade ovarian serous tumors. However, few studies have been performed regarding tubal precursors to low-grade ovarian tumors. A few previous studies have proposed a relationship between tubal hyperplasia and ovarian serous borderline tumors.

**Design:** A retrospective review of histologic tubal specimens.

**Materials and Methods:** We conducted a retrospective review of tubal specimens in patients with a diagnosis of serous borderline ovarian tumors. We compared these to a control group which consisted of patients who had a hysterectomy performed for benign indications. Tubal specimens were inspected to determine the frequency of papillary tubal hyperplasia. We used a Fisher's Exact Test to determine if this frequency differed between groups. We also conducted a t-test to determine if there was a difference in the mean age of patients with a borderline ovarian tumor and controls.

**Results:** We found papillary tubal hyperplasia in 4/13 borderline tubal specimens and 0/13 control specimens. The Fisher's Exact Test probability was 0.048, showing a statistically significant relationship between papillary tubal hyperplasia and serous ovarian borderline tumors. There was no statistically significant difference in the mean age between the women with borderline ovarian tumors (50.69 years) and the control group (50.31 years) ( $p=0.55$ ). There was a statistically significant difference in the mean age of patients with papillary tubal hyperplasia (51.55 years) and the patients without papillary tubal hyperplasia (44.75 years) ( $p=0.02$ )

**Conclusion:** Women with serous ovarian borderline tumors were more likely to have papillary tubal hyperplasia than women with a hysterectomy for benign indications. This supports the hypothesis regarding tubal precursors to serous ovarian borderline tumors. Further this gives more evidence to the hypothesis of tubal precursors to ovarian cancer in general.

**Support:** None



## OB/GYN Resident, Fellow, and Faculty Publications and Conference Presentations January 2012 - May 2013

1. **Aaronoff M**. "Resident Performance in a Surgical Skills Workshop on the Management of Postpartum Hemorrhage." CREOG/APGO Annual Meeting, Orlando, FL, March 7-10, 2012.
2. **Barrett M, Soon, R**, Whitaker AK, Takekawa S, **Kaneshiro B**. "Awareness and knowledge of the intrauterine device in adolescents." *J Pediatr Adolesc Gynecol* 25: 39-42;2012
3. Bedaiwy MA, **Burlingame JM**, Hussein M, Assad R, Falcone T. "Assessment of Vascular Endothelial Growth Factor, Basic Fibroblast Growth Factor, and Transforming Growth Factor Levels in Amniotic Fluid." *J Reprod Med*. 2012;47:405-10.
4. **Bohrer J, Goh W**, Hirai CA, Davis J, **Zalud I**. "Obstetrical outcomes in patients with low lying placenta in second trimester." Society for Maternal Fetal Medicine Annual Meeting. *Am J Obstet Gynecol* 2012;206: Supplement 1:S69.
5. Bojesen SE, Pooley KA et al. (including **M. Carney**). "Multiple independent variants at the TERT locus are associated with telomere length and risks of breast and ovarian cancer." *Nature Genetics* March 2013.
6. **Broadly A**, Hamada K, **Burlingame JM**. "Digital Thermal Monitoring of Vascular Function in Pregnancy." 59th annual scientific meeting of the Society of Gynecologic Investigation, March 21-24, 2012, San Diego, California.
7. **Broadly AJ**, Lam A, **Fujimoto CK**, Kajiwaru K, Tauchi-Nishi P, **Wright TE**. "Effects of Methamphetamine Use on the Placenta." 61st Annual Clinical Meeting of the American College of Obstetricians and Gynecologists. New Orleans, Louisiana, May 2013.
8. Buckley B, Bacchi D, Castricone F, Dennison T, Malina H, Morrow C, Naw LL, Saw S, Wa E, **Dye TDV**. "Evolving approaches to illness of Karen refugees." *Journal of Immigrant and Minority Health*, in press, 2013.
9. **Burlingame J**, Ahn HJ, Chen J, Urschitz J, "Genetic risk factors for preeclampsia. Society for Maternal Fetal Medicine." Annual Meeting, February 2012, San Francisco. *Am J Obstet Gynecol* 2013;208:S247.
10. **Burlingame J**, Ahn HJ, Seto T. "Echocardiographic changes in maternal cardiac structure and function from the first trimester to 6 months postpartum." Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *Am J Obstet Gynecol* 2013;208:S98.
11. **Burlingame J**, Ahn HJ, Tang WHW. "Changes in cardiovascular biomarkers throughout pregnancy and the remote postpartum period." Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *Am J Obstet Gynecol* 2013;208:S97.
12. **Burlingame J**, Brink-Wong T, Rocha F, **Tsai S**, Shaha S, **Bartholomew L**. "Can we really diagnose type 2 diabetes during pregnancy?" Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *American Journal of Obstetrics and Gynecology*, 2013;206:S125-S126.
13. **Burlingame J**, Horiuchi B, Ohana P, Onaka A, **Sauvage LM**. "The contribution of heart disease to pregnancy-related mortality according to the pregnancy mortality surveillance system." *J Perinatol*. 2012 Mar;32(3):163-9.
14. **Burlingame J**, Shaha S, **Rocha F, Tsai Pai-Jong, Bartholomew ML**. "Can we really diagnose type 2 diabetes in pregnancy?" Society for Maternal Fetal Medicine 32nd Annual Meeting, Dallas, Texas, February 2012.
15. **Burlingame JM**, Ohana P, **Aaronoff M**, Seto T. "Non-invasive Cardiac Monitoring in Pregnancy: Impedance Cardiography versus Echocardiography." *J Perinatology* in press, 2013.
16. Charafeddine L, Ammous F, Kobeissi L, **Dye T**, Faddous-Khalife M, Matar M, Yunis K. "In-Hospital Neonatal Mortality and the Role of Consanguinity." *Pediatric and Perinatal Epidemiology* 2012;26:398-407.1
17. Committee on Health Care for Underserved Women and the American Society of Addiction Medicine (including **TE Wright**). "Opioid Abuse, Dependence, and Addiction in Pregnancy." *Committee Opinion* #524, May 2012.
18. D Li; MA Le Pape; B Jones; W Chen; **TD Dye**. "Assessing Differential Expression In Two-Color Microarrays." 13th RCMI International Symposium on Health Disparities, December 10-13, 2012, San Juan, Puerto Rico.
19. Darney P et al (including **LM Sauvage**). "A statement on abortion by 100 professors of obstetrics: 40 years later." *American Journal of Obstetrics and Gynecology* 2013 (online).
20. **Dye TD**, Ahn HJ, Chen JJ, Mau M, Hayes D, **Towner D**. "Deconstructing Trends and Perinatal Ethnic Disparities in Hawaii." Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *American Journal of Obstetrics and Gynecology* 2013;208:S307.
21. **Dye TD**, Bogale S, Hobden C, Tilahun Y, Deressa T, Reeler A. "Experience of Initial Symptoms of Breast Cancer and Triggers for Action in Ethiopia." *International Journal of Breast Cancer* 2012, doi:10.1155/2012/908547.

22. **Dye TD**, Hammatt Z, Ricks-Santi L, Pratap S, Bower N, Richard-Davis G, Le Pape M. "A Biospecimen Repository Community of Best Practices Across Ethnically Diverse Institutions to Facilitate Informatics Solutions in Biospecimen Science." 2012 Biospecimen Repository Network (BRN) Symposium: Advancing Cancer Research Through Biospecimen Science, Bethesda, MD, February 2012.
23. **Dye TD**, Hammatt Z, Watanawongskul S, Dean T, Bullard P, **Sauvage L**. "Differential rates of consenting to share information and to participate in future genetic research: Experience from a large perinatal biorepository." Society for Maternal Fetal Medicine 32nd Annual Meeting, Dallas, Texas, February 2012.
24. **Dye TD**, Wojtowycz M, Dozier AM, **Kaneshiro B**, Bacchi D, Glantz C, **Towner D**. "Should unwanted pregnancy be considered a high-risk perinatal condition?" Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *American Journal of Obstetrics and Gynecology* 2013;208:S306.
25. **Dye TDV**. "Transdisciplinary science and practice in action: The Maternal and Child Health Journal as shared space." *Maternal and Child Health Journal* 2013;17:7-8.
26. **Elia J**, Albright C, Steffan A, Saiki K. "Is moderate-to-vigorous physical activity recorded on 7-day log correlated with accelerometer data in a sample of ethnic minority postpartum women?" Be Active 2012 Conference. *Journal of Science and Medicine in Sport* 2012;15(6):378.
27. **Elia JL**, Albright CL, Steffen A, Saiki K. "Do 7-day physical activity logs measure exercises that accelerometers can't? Results from logs returned over 12 months by postpartum women." Society of Behavioral Medicine Annual Meeting. *Annals of Behavioral Medicine* 2012;43:s42.
28. **Elia J**, Roberson E, Niitani L. "Hawaii Safe Sleep Quick Facts." Honolulu, HI: Hawaii Department of Health, March 2012.
29. **Elia J**, Albright C, Steffan A, Saiki K. "Is moderate-to-vigorous physical activity recorded on 7-day log correlated with accelerometer data in a sample of ethnic minority postpartum women?" Be Active 2012, Sydney, Australia, November 2012.
30. **Elia J**, Roberson E. "Prenatal stressful life events associated with bed sharing in Hawaii – Data from the Hawaii Pregnancy Risk Assessment Monitoring System, 2009-2010." Pacific Global Health Conference, Honolulu, HI, October 2012.
31. **Elia JL**, Albright CL, Steffen A, Saiki K. "Do 7-day physical activity logs measure exercises that accelerometers can't? Results from logs returned over 12 months by postpartum women." Society of Behavioral Medicine, New Orleans, LA, April 2012.
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37. Gotaro Kojima G, **Terada KY**, Miki N, Miki K. "Non-Islet Cell Tumor Hypoglycemia Associated with Recurrent Carcinosarcoma of the Ovary." *Endocrine Practice*, 2013 (online). (March 2013)
38. **Grzankowski KS**, Shimizu DM, Kimata C, Black M, **Terada KY**. "Clinical and pathologic features of young endometrial cancer patients with loss of mismatch repair expression." *Gynecol Oncology* 126: 408, 2012.
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40. **Hiraoka M**, Kamikawa V, **Kaneshiro B**. "The Effect of iPad Tablet Device Utilization on Compliance with Residency Program Requirements." CREOG/APGO Annual Meeting, Phoenix, AZ, February 27 – March 2, 2013.
41. **Hiraoka M**, **Kamikawa V**, **Kim D**, **Kaneshiro B**. "Obstetrics and Gynecology Faculty and Resident Utilization of Social Networking Sites and Awareness of the Risks." CREOG/APGO Annual Meeting, Phoenix, AZ, February 27 – March 2, 2013.
42. **Hiraoka M**, **McCartin R**, **Kamikawa V**, **Kaneshiro B**. "A Structured Resident Orientation Curriculum Improves the Confidence of Incoming First-Year Obstetrics and Gynecology Residents." CREOG/APGO Annual Meeting, Phoenix, AZ, February 27 – March 2, 2013.

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49. Killeen JL, **Dye TD**, **Hiraoka M**. "Improved Abnormal Pap Smear Triage Utilizing Cervical Cancer Biomarkers." *Journal of Lower Genital Track Disease*, in press, 2013.
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53. **Melo JR**, **Kuwahara MK**, **Kaneshiro B**. "Women's Willingness and Ability to Palpate their IUD Strings." American College of Obstetricians and Gynecologists Annual Clinical Meeting 2012. San Diego, California. May 5 to 9, 2012.
54. **Millet L**, Shaha S, **Bartholomew ML**. "Rates of bacteriuria in laboring women with epidural analgesia: continuous vs intermittent bladder catheterization." *Am J Obstet Gynecol* 206 (4):316 e1-7,2012. Epub 2012 Feb 28.
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64. Palatnik A, **Loichinger M**, Kim T, Kuhlmann R, Peterson E. "The impact of delivery timing on neonatal outcomes of infants with gastroschisis." Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *American Journal of Obstetrics and Gynecology* 2013;208:S178.



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72. S Pratap; MT Perry; N Boukli; IC Almeida; **TD Dye**; ST Garner; M Powell. "Creation Of A Proteomics And Informatics Collaborative Group To Enhance Biomedical Research At Ethnically Diverse Institutions." 13th RCMI International Symposium on Health Disparities, December 10-13, 2012, San Juan, Puerto Rico.
73. **Salcedo J**, Sorensen A, Rodriguez MI. "Cost analysis of immediate postabortal IUD insertion compared to planned IUD insertion at the time of abortion follow up." *Contraception* 2013;87:404-408.
74. **Sauvage LM**. "Practicing pelvic examinations by medical students on women under anesthesia: why not ask first?" *Obstetrics & Gynecology* 2012; 20:1480-1481.
75. SC Takano; JR Enomoto-Hahn; **LK Millar**; AC Collier; **TD Dye**. "Laboratory Strategies For Biorepository Success." 13th RCMI International Symposium on Health Disparities, December 10-13, 2012, San Juan, Puerto Rico.
76. **Soon R, Dye T**, Ralston N, Berry M, and **Sauvage L**. "Seafood in pregnancy and mercury levels in umbilical cord blood." Society for Maternal Fetal Medicine Annual Meeting, February 2012, San Francisco. *American Journal of Obstetrics and Gynecology* 2013;208:S349.
77. **Sugibayashi S, Kim D, Acby T, Kaneshiro B**. "Amniotic Fluid Arborization in the Diagnosis of Previaible Preterm Premature Rupture of Membranes." *Journal of Reproductive Medicine* 2012;57:136.
78. Tamura E, **Huang TTF**, Marikawa Y, Alarcon V. "Mechanism of meiotic spindle disappearance and regeneration in oocyte vitrification." Cureus Abstract Competition, 2012.
79. Tauchi-Nishi P, Gima C, Win N, Kaneshiro J, Namiki T, **Hiraoka M**. "Squamous Intraepithelial Lesion of Intermediate Grade: Cytologic-Histologic Correlation and Comparison of Positive Predictive Values." American Society of Cytopathology Annual Scientific Meeting, Las Vegas, NV, November 2-6, 2012
80. **TE Wright**, R.Schuetter, E. Fombonne, J Stephenson, and WF Haning. "Implementation and evaluation of a harm-reduction model for clinical care of substance using pregnant women." *Harm Reduction Journal* 2012; 9:5
81. **Terada KY**, Black M, Terada LH, Davis J, Shimizu DM. "Survival of endometrial cancer patients with lymphatic invasion and deficient mismatch repair expression." *Gynecologic Oncology* 2013;129:188-192. (April 2013)
82. **Terada KY**, Harvey SA, Davis J, **Burlingame J**. "Cancer-related maternal mortality, findings from the state of Hawaii." *Journal of Reproductive Medicine* 57: 479, 2012.
83. TM Dean; NM Hassell; **LM Sauvage**; AC Collier; **TD Dye**. "The Clinician/ Patient/ Research Interface: Successful Biobanking." 13th RCMI International Symposium on Health Disparities, December 10-13, 2012, San Juan, Puerto Rico.
84. TM Dean; S Watanawongskul; W Chen; JW Green; LA Falabella; **TD Dye**. "Clinical Data Management: The Hawaii Biorepository Experience." 13th RCMI International Symposium on Health Disparities, December 10-13, 2012, San Juan, Puerto Rico.

85. **Tsai PJS, Bartholomew L, Dye TDV.** "Ethnic Variation in VBAC Rates in the United States." 61st Annual Clinical Meeting of the American College of Obstetricians and Gynecologists. New Orleans, Louisiana, May 2013.
86. **Tsai PJS, Roberson E, Dye TDV.** "Ethnic Variation in Diabetes and Macrosomia in Pregnancy." 61st Annual Clinical Meeting of the American College of Obstetricians and Gynecologists. New Orleans, Louisiana, May 2013.
87. **Tsai PS, Wong S, Zalud I.** "Ultrasound education in Obstetrics and Gynecology: Hawai'i experience." *Hawaii J Med Pub Health* 2013;72:170-172.
88. **Tsai, P; Oyama, I.; Hiraoka, M; Minaglia, S; Thomas, J; Kaneshiro, B.** "Perineal Body Length Among Different Racial Groups in the First Stage of Labor." *Female Pelvic Medicine & Reconstructive Surgery*. 18(3):165-167, May/June 2012. doi: 10.1097/SPV.0b013e318255b096
89. Tsutsumi R, Ward WS, Marikawa Y, **Huang T.** Effects of Vitrification on Mitochondria Distribution and Spindle Configuration during In Vitro Maturation of Human Germinal Vesicle Oocytes from IVF cycles. *J. Assist Reprod Gen.* 2012.
90. Tsutsumi R, Ward WS, Marikawa Y, **Huang T.** "Effects of Vitrification on Mitochondria Distribution and Spindle Configuration during In Vitro Maturation of Human Germinal Vesicle Oocytes from IVF cycles." *Amer. Soc Reprod Med.*, San Diego, October 28, 2012.
91. Urshitz J, Ahn HJ, Chen JJ, **Burlingame JM.** "Genetic risk factors for GDM and preeclampsia in women from Hawaii." 13th RCMI International Symposium on Health Disparities, December 10-13, 2012, San Juan Puerto Rico.
92. **Wright TE,** Terplan M. "The SBIRT Model, Screening for and Managing Substance Use in Practice." Clinical Seminar. American College of Obstetrics and Gynecology 60th Annual Clinical Meeting, San Diego, California, May, 2012.
93. **Wright TE.** "Management of Prescription Opiate Abuse During Pregnancy." 61st Annual Clinical Meeting of the American College of Obstetricians and Gynecologists. New Orleans, Louisiana, May 2013.
94. **Wright, TE** "The SBIRT Model, Screening for and Managing Substance Use in Practice." Expert Meeting on Perinatal Drug Abuse. Centers for Disease Control and Prevention, Atlanta, GA September, 2012.
95. **Wright, TE.** "Women and Substance Use: Emerging Research and Clinical Topics: Methamphetamine Use in Pregnancy." American Society of Addiction Medicine 43rd Medical Science Conference. Atlanta, Georgia. April, 2012.
96. **Yamasato K, Casey D, Kaneshiro B, Hiraoka M.** "The Impact of Robotic Surgery on Gynecologic Surgical Trends in Hawaii." CREOG/APGO Annual Meeting, Phoenix, AZ, February 27 – March 2, 2013.
97. **Zalud I,** Busse R. "The use of ultrasound in the management of gynecological conditions." In: Studd J, Tan SL, Chervenak FA: Current Progress in Obstetrics and Gynecology. Kothari Medical: Tree Life Media, Mumbai, India 2013, pp. 215-244.
98. **Zalud I, Rocha F.** "Artifacts, pitfalls and normal variants." *Donald J Ultrasound Obstet Gynecl* 2012;6(1):1-8
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## Publications of Ob/Gyn Resident Research Projects

2012

Millet L, Shaha S, Bartholomew ML. Rates of bacteriuria in laboring women with epidural analgesia: continuous vs intermittent bladder catheterization. *Am J Obstet Gynecol.* 2012;206:316.e1-7.

Sugibayashi S, Aeby T, Kim D, Kaneshiro B. Amniotic fluid arborization in the diagnosis of previable preterm premature rupture of membranes. *J Reprod Med.* 2012 Mar-Apr;57(3-4):136-40.

Tsai, Pai-Jong Stacy MD, MPH; Oyama, Ian A. MD; Hiraoka, Mark MD; Minaglia, Steven MD; Thomas, Jennifer BS; Kaneshiro, Bliss MD, MPH. Perineal Body Length Among Different Racial Groups in the First Stage of Labor. *Female Pelvic Medicine & Reconstructive Surgery*:May/June 2012 - Volume 18 - Issue 3 - p 165–167

2011

Tsai PJ, Nakashima L, Yamamoto J, Ngo L, Kaneshiro B. Postpartum Follow-up Rates Before and After the Postpartum Follow-up Initiative at Queen Emma Clinic. *Hawaii Med J.* 2011 Mar;70(3):56-9. PMID: 21365543 [PubMed]

Woo GW, Soon R, Thomas JM, Kaneshiro B. Factors affecting sex education in the school system. *J Pediatr Adolesc Gynecol.* 2011 Jun;24(3):142-6. Epub 2011 Jan 26.

2010

Ahern R, Frattarelli LA, Delto J, Kaneshiro B. Knowledge & awareness of emergency contraception in adolescents. *J Pediatr Adolesc Gynecol.* 2010 Oct;23(5):273-8. Epub 2010 May 31. PMID: 20537573 [PubMed - indexed for MEDLINE]

Ann Lee Chang, M.D., Reni Soon, M.D., and Bliss Kaneshiro, M.D., M.P.H. The Prevalence of Gestational Diabetes Among Micronesians in Honolulu. *Hawaii Med J.* 2010 May; 69(5 suppl 2): 4–6.

Rebekah Grant, M.D., Alexandra Sueda, M.D., and Bliss Kaneshiro, M.D., M.P.H. Expert Opinion vs. Patient Perception of Obstetrical Outcomes in Laboring Women with Birth Plans. *J Reprod Med* 2010;55:31–35

2009

Sueblinvong T, Carney ME. Current understanding of risk factors for ovarian cancer. *Curr Treat Options Oncol.* 2009 Apr;10(1-2):67-81. Epub 2009 Jul 15. PMID: 19603272 [PubMed - indexed for MEDLINE]

Lazenby GB, Fogelson NS, Aeby T. Impact of paracervical block on postabortion pain in patients undergoing abortion under general anesthesia. *Contraception.* 2009 Dec;80(6):578-82. Epub 2009 Jul 10, PMID: 19913154 [PubMed - indexed for MEDLINE]

Sueblinvong T, Carney ME. Ovarian cancer: risks. *Hawaii Med J.* 2009 Mar;68(2):40-6. PMID: 9385377 [PubMed - indexed for MEDLINE]

2008

Chrystie Fujimoto, Jeffrey Killeen, Tricia Wright. The effects of methamphetamine use on the placenta. *Am J Obstet Gynecol.* Volume 199, Issue 6, Supplement A, Page S111, December 2008

Ivica Zalud, Sapna Janas. Risks of third-trimester amniocentesis. *The Journal of reproductive medicine* (2008) Volume: 53, Issue: 1, Pages: 45-48 PubMed: 18251361

2007

Mikiko Yazawa Bunn, Nicole A Higa, Willie J Parker, Bliss Kaneshiro. Screening for domestic violence during pregnancy. *Hawaii Medical Journal* (2007) Volume: 68, Issue: 3, Pages: 133-134. Available from [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)

2006

Sato RL, Li GG, Shaha S. Antepartum seafood consumption and mercury levels in newborn cord blood. *Am J Obstet Gynecol.* 2006 Jun;194(6):1683-8. Epub 2006 Apr 25. PMID: 16635458 [PubMed - indexed for MEDLINE]

2005

Kaneshiro BE, Acoba JD, Holzman J, Wachi K, Carney ME. Effect of delivery route on natural history of cervical dysplasia. *Am J Obstet Gynecol.* 2005 May;192(5):1452-4. PMID: 15902135 [PubMed - indexed for MEDLINE]

2003

Ian A. Oyama, Mark T. Wakabayashi, LeighAnn C. Frattarelli, Bruce Kessel. Local anesthetic reduces the pain of colposcopic biopsies: A randomized trial. *Am J Obstet Gynecol.* Volume 188, Issue 5, Pages 1164-1165

# Ob/Gyn Resident Oral Presentations and Abstract Poster Presentations

2011

March 2011 2011 CREOG & APGO Annual Meeting, San Antonio, TX. **Melo, J** *The Impact of a Longitudinal Curriculum on Medical Student Obstetrics and Gynecology Clinical Training.*

February 7-12, 2011 31st Society for Maternal-Fetal Medicine Annual Meeting, Hilton San Francisco Union Square, San Francisco, CA. Marguerite Lisa **Bartholomew, M.D.**, Kacy Church, **Karen Soules, M.D.**, Steve Shaha, Ph.D., **George Graham, M.D.**, **Janet Burlingame, M.D.**, **Ivica Zalud, M.D., Ph.D.**, **Lynnae Millar Sauvage, M.D.** *Managing Diabetes In Pregnancy Using Cell Phone/Internet Technology*

February 7-12, 2011 31st Society for Maternal-Fetal Medicine Annual Meeting, Hilton San Francisco Union Square, San Francisco, CA. **William Goh, M.D.**, Monica Rincon, M.D., Jorge Tolosa, M.D., Roya Sohaey, M.D., Leslie Arpin, M.D., Rene Riano, M.D., **Shannel Adams, M.D.**, James Davis, Ph.D., **Justin Bohrer, M.D.**, **Ivica Zalud, M.D.** *Persistent Adnexal Masses and Pregnancy Outcomes*

2010

December 6-9, 2010 12th RCMI International Symposium on Health Disparities, Nashville, Tennessee **Pai-Jong Stacy Tsai, M.D., M.P.H.**, **Ian A. Oyama, M.D.**, **Mark Hiraoka, M.D.**, **Steven Minaglia, M.D.**, Jennifer Thomas, **Bliss Kaneshiro, M.D., M.P.H.** *Differences in Perineal Body Length in Labor*

December 6-9, 2010 12th RCMI International Symposium on Health Disparities, Nashville, Tennessee **Bliss Kaneshiro, M.D., M.P.H.**, **Maria Barrett, M.D.**, Sarah Takekawa, M.D., **Reni Soon, M.D.** *Knowledge of Intrauterine Devices in a Diverse Adolescent Population*

October 14-6, 2010 ACOG Districts VII, VIII, IX, XI Combined 2010 Annual District Meeting, Maui, Hawai'i Viola Chu, Iris Kim, **Celeste Adrian, M.D.**, **Bliss Kaneshiro, M.D., M.P.H.** *Assessment of the Accuracy of Information Regarding Emergency Contraception on the Internet*

May 15-19, 2010 ACOG 58th Annual Clinical Meeting, San Francisco, CA **Gregory W. Woo, M.D.**, Jennifer M. Thomas, **Reni Soon, M.D.**, **Bliss Kaneshiro, M.D., M.P.H.** *Factors Affecting Sexual Health Education in the School System*

2009

February 5, 2009 He Huliau 2009 Conference **Ann Chang, MD.** *The Prevalence of Gestational Diabetes among Micronesians in Honolulu, Hawaii*

February 5, 2009 Society of Gynecologic Oncologists 40th Annual Meeting on Women's Cancer **Thanasak Sueblinvoing, M.D.**, **Michael Carney, M.D.**, Christina Sing, **Bliss Kaneshiro, M.D.**, Jeffrey Killeen, M.D. *Prediction of Metastatic Disease of Endometrial Carcinoma Using Preoperative Endometrial Biopsy or Curettage*

January 26, 2009 Society of Maternal-Fetal Medicine **Christie Fujimoto, M.D.**, Jeffrey Killeen, M.D., **Tricia Wright, M.D.** *The Effects of Methamphetamine Use on the Placenta*

2008

August 18-20, 2008 13th Annual Pacific Basin Association Medical Conference, Yap, Federated States of Micronesia **Ann Chang, M.D.** *The Prevalence of Gestational Diabetes among Micronesians in Honolulu, Hawaii*

March 26, 2008 Society of Gynecologic Investigation **Gweneth Lazenby, M.D.**, **Tod Aeby, M.D.** *Impact of Paracervical Block, in Combination with General Anesthesia, on Post-Abortion Pain*

2007

August 9, 2007 34th Annual Scientific Meeting of the Infectious Diseases Society for OB/GYN **Gweneth B. Lazenby, M.D.** *Fever of Unknown Origin: a Case of Klebsiella oxytoca Liver Abscess in Pregnancy*

May 5-9, 2007 ACOG Annual Clinical Meeting 2007, San Diego, CA **Angel M. Willey, M.D.**, Jim Davis, Ph.D., **David Kim, M.D.** *Risk Factors Associated with Striae Gravidarum*

May 5-9, 2007 ACOG Annual Clinical Meeting 2007, San Diego, CA **Jennifer P. Holzman, M.D.**, Jeffrey Killeen, M.D., **Lori Kamemoto, M.D.**, **Mark Wakabayashi, M.D.**, Steve Shaha, Ph.D. *P16 INK 4a and Cervical Cytology: Improving Cervical Pap Smear Screening- ACOG Blue Ribbon Award for Poster Presentation*

May 19, 2007 North American Society of Pediatric & Adolescent Gyn **Reina M. Ahern Harris, M.D.**, **LeighAnn Frattarelli, M.D.** *Knowledge & Attitudes of Emergency Contraception (EC) in Hawaii Adolescents*

March 13, 2007 Annual Biomedical Sciences Symposium **Jennifer P. Holzman, M.D.**, Jeffrey Killeen, M.D., **Lori Kamemoto, M.D.**, **Mark Wakabayashi, M.D.**, Steve Shaha, Ph.D. *P16 INK 4a and Cervical Cytology: Improving Cervical Pap Smear Screening*

2006

May 25, 2006 **Stefanie Ueda, M.D.**, Jeffrey Killeen, M.D., **Michael Carney, M.D.**, Steve Shaha, Ph.D. *Utility of Clinical Tumor Markers to Identify Patients with High Risk Cervical Dysplasia & Cancer*

2005

September 28-October 2, 2005 Pacific Coast OB/GYN Society 72th Annual Meeting **Renee Sato, M.D.**, **Gaylyn Li, M.D.**, Steve Shaha, Ph.D. *Antepartum Seafood Consumption and Mercury Levels in Newborn Cord Blood- Ted Adams Award for Poster Presentation*

May 10, 2005 **Alexandra Sueda, M.D.**, **LeighAnn Frattarelli, M.D.** *Knowledge and Risk-Taking Behavior Among An Adolescent Population in Hawaii*

## *Notes*

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