

## Ja'Near Rochelle Anderson, M.D. (2010-2013)



### Education:

#### Medical:

2003-2007	Meharry Medical College School of Medicine, Nashville, TN	M.D.
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#### Post Graduate:

2007 – 2010	St. Christopher's Hospital for Children Philadelphia, PA	Residency
2010 - 2013	University of Texas-Southwestern Medical Center Neonatal/Perinatal Medicine	Fellowship

### Honors/Awards:

2006	The William T. Dorham Memorial Scholarship
2006	The Elizabeth McDaniel Woodard Memorial Scholarship
2004	Phillip A. Nicholas Class of 1954 Scholarship
2005	James A. Cox, Jr. M.D. Memorial Scholarship
1998-2002	Dean's List - University of Texas at Austin, Austin, Texas
2003-2007	Dean's List - Meharry Medical College School of Medicine, Nashville, TN

**Research**

Title:

Pending

Mentor:

Charles Rosenfeld, M.D.

## **Olutoye Olunuga Osunbunmi, M.B., B.S. (2010-2013)**



### **Education:**

#### **Medical:**

1993-2001                      University of Ilorin, Nigeria                      M.B., B.S.

#### **Post Graduate:**

2007-2010                      Bronx Lebanon Hospital Center                      Residency  
New York, NY

2010 - 2013                      University of Texas-Southwestern Medical Center                      Fellowship  
Neonatal/Perinatal Medicine

### **Honors/Awards:**

2005                      2nd runner up, 2006 annual Clinical Audit Competition, Barking  
haverning and Redbridge hospitals NHS Trust UK (Pediatric  
Sedation for Suturing at King George Hospital, Essex)  
Resident representative, Bronx Lebanon Hospital Ethics Committee

### **Presentations:**

**Osunbunmi, O.** Pediatric Sedation for Suturing. Poster presented at: 2006 Annual North East Thames Audit Conference; Essex, United Kingdom. July 2005

**Osunbunmi, O.,** Ram, T. Use of D-dimer in DVT/Pulmonary Embolism diagnosis in Great Western Hospital, Emergency Department. Poster presented at: Clinical Audit Conference, Great Western Hospital; Swindon, United Kingdom. November 2005

**Osunbunmi, O.** Use of CT scan in Head injury patients in Old Church Hospital Emergency Department. Oral Presentation presented at: Clinical Audit Conference; Essex, United Kingdom. March 2005

**Osunbunmi, O**, Adeyanju A. Neonatal Tetanus; Diagnosis and Management. Oral Presentation presented at: Grand Round, Massey Street Children's Hospital; Lagos, Nigeria. November 2002

**Research**

Title:

Mentor:

Phil Shaul, M.D.

## **Katherine Stumpf, M.D. (2010-2013)**



### **Education:**

#### **Medical:**

2003-2007                      Washington University School of Medicine                      M.D.  
Saint Louis, MO

#### **Post Graduate:**

2007-2010                      University of California-San Diego                      Residency  
San Diego, CA

2010 - 2013                      University of Texas-Southwestern Medical Center                      Fellowship  
Neonatal/Perinatal Medicine

### **Honors/Awards:**

2004                      Siteman Cancer Center Summer Research Grant

2004                      NIH summer research grant

### **Publications:**

Semerad CL, Liu F, Gregory AD, **Stumpf K**, Link DC. GCSF is an essential regulator of neutrophil trafficking from the bone marrow to the blood. *Immunity*. Oct. 17, 2002 (4): 413-423

### **Research**

Title:                      Urinary Tract Infections in the Pre-term Population: An Observational Study

Mentor:                      Pablo Sánchez, M.D.

## Joshua Aaron Frankfurt, M.D. (2009-2012)



### Licensure:

2004 Florida

### Education:

#### Medical:

1997 – 2001 University of South Florida College of Medicine, Tampa, FL MD

**Post Graduate:** University of Miami / Jackson Memorial Hospital, Miami, FL Internship, Residency  
2001-2004  
2007-2009 Jackson Memorial Hospital/ University of Miami, FL Pediatric Hospitalist

### Honors/Awards:

1998-1999 Vice President of student chapter of the American Medical Association at University of South Florida College of Medicine

### Abstracts

Cantwell G.P., Frankfurt J.F. First Aid Awareness In The School Setting. Pediatric Emergency Care. 2004 Nov; 20(11): 800

### Research

Title: Biomarkers for an Elevated Blood Pressure in Very-Low-Birth-Weight Infants at 1, 2 and 3 Years of Age

Mentor: Charles Rosenfeld, M.D.

### Abstracts

**Frankfurt J**, Duncan A, Heyne R, Rosenfeld CR. Studies of renal function and systolic blood pressure in preterm very-low-birth-weight infants at 1-3 years chronologic age. Presentation at PAS, Denver, CO, 4/30-5/2/11

## **Jenitha Jeyaraj, M.D. (2009-2012)**



### **Education:**

#### **Medical:**

2000

Madurai Medical College, India.

MBBS

#### **Post Graduate:**

2006-2009

Driscoll Children's Hospital, Corpus Christi,  
Texas, General Pediatrics.

Internship &  
Residency

### **Honors/Awards:**

1992- 2000

State Merit Scholarship, Tamil Nadu , India

1992- 2000

National Merit Scholarship

1998:

Distinction in Microbiology Boards

2006-2007

Best Resident of the Year Award

### **Research**

Title:

RHAMM and its contribution to defects in alveolarization during  
neonatal hyperoxia

Mentor:

Rashmin Savani, MB, ChB

## Jaclyn Marie LeVan, D.O. (2009-2012)



### Licensure:

2006 Texas Physician in Training License

### Education:

#### Medical:

2006 University of North Texas Health Science Center, D.O.  
Texas College of Osteopathic Medicine, Fort  
Worth, Texas

#### Post Graduate:

206-2009 University of Texas Southwestern Medical Center Internship,  
General Pediatrics Residency

### Honors/Awards:

1998 Beta Beta Beta Biological Honor Society  
1998 Phi Eta Sigma Freshman Honor Society  
2001 Golden Key National Honor Society  
2001 Magna cum Laude  
2001 National Society of Collegiate Scholars  
2001 Phi Kappa Phi Honor Society  
2002 Dean's List  
2003-04 Vice President of Student Osteopathic Medical Association  
2003-04 President of Pediatric Club  
2006 W.R. and Constance Jenkins Scholarship  
2006 Janet M. Glasgow Citations of Achievement Award

### Research

Title: Impact of Initiating the SUPPORT trial on Management and Outcome  
of Gestational Age-Matched Non-Participants

Mentor: Luc P Brion, MD

## Michel Mikhael, M.D. (2009-2012)



### Licensure

2009 Texas State Board of Medical Examiners

### Education:

#### Medical:

1996-2002 Faculty of Medicine Cairo University, Cairo, MB,BCh  
Egypt.

**Post Graduate:** Maimonides Infants and Children's Hospital of Internship,  
2006-2009 Brooklyn, Brooklyn, NY Residency

### Honors/Awards:

2003 **Honor Degree of Excellence** for a collective score above 90<sup>th</sup>  
percentile of Cairo university examinees

2009 **Sassine Rahi Award for Excellence in Neonatology** presented  
by Maimonides Infants and Children's Hospital of Brooklyn

### Research

Title: Pre-operative Assessment of Hypothalamic-Pituitary-Adrenal axis May  
Predict Cardiac Surgery Outcome in Neonates

Mentor: Charles Rosenfeld, MD

### Grants

20011-13 **Children's Medical Center: Children's Clinical Research Advisory  
Committee (CCRAC):** Peri-operative Assessment of the Hypothalamic-  
Pituitary-Adrenal Axis Predicts Outcome in Neonates Undergoing  
Cardiac Surgery

## **Maria del Mar (Mari) Afanador, M.D. (2008-2011)**



### **Licensure**

2007 Texas State Board of Medical Examiners

### **Education**

#### **Medical:**

2001-05 University of South Florida College of Medicine MD

#### Postgraduate:

2005-08 University of South Florida, General Pediatrics Internship & Residency  
2008 - 2011 University of Texas-Southwestern Medical Center Neonatal/Perinatal Medicine Fellowship

### **Honors/Awards**

2007-2008 USF Pediatric Resident Teacher of the Year Award for Outstanding Medical Student Teaching  
2005 Gold Humanism Honor Society, Barnes Behnke Chapter, University of South Florida  
2001 Summa cum Laude, Rollins College  
Honors in Biology Major, Rollins College  
Archibald Granville Bush Award for Excellence in Biology  
1997-01 Honors Degree Program, Rollins College  
1997 Phi Eta Sigma Freshman Honor Society  
2011 Selected for AAP Perinatal Section Trainee and Early Career Neonatologists Group (TECaN) Newsflash and AAP Perinatal Trainee Website, <http://www.aap.org/sections/perinatal/TrainFeature.html>

### **Research**

Title: Role of EphrinB2 in Distal Pulmonary Epithelial Formation  
Mentor: Margaret Schwarz, M.D., University of Texas-Southwestern, Division of Pediatric Critical Care

## **Publications**

A. Bagg, C. Edwards, **M. Afanador**, P. Altus. Kikuchi-Fujimoto Disease Masquerading as a Complication from a Periodontal Abscess. *Infectious Diseases in Clinical Practice*. 2006; 14(2): 114-115.

Havraneka T, Ashmeadeb TL, **Afanador M**, Carver JD. Effects of Maternal Magnesium Sulfate Administration on Intestinal Blood Flow Velocity in Preterm Neonates. *Neonatology* 2011;100:44-49

## **Abstracts**

T. Havranek, Ashmeade T. L., **Afanador M**, Carver J.D. The Effect of Maternal Magnesium Sulfate Administration on Intestinal Blood Flow in Preterm Neonates. PAS-SPR, Honolulu, Hawaii, 5/04/08.

**Afanador M**, Bennett KM, Dravis C, Henkemeyer M, Schwarz MA. Role of EphrinB2 in Distal Pulmonary Epithelial Formation. Oral presentation at the American Academy of Pediatrics 76th Perinatal & Developmental Medicine Symposium in Aspen, Colorado, June 12, 2010

**Afanador M**, Bennett KM, Dravis C, Henkemeyer M, Schwarz MA. Role of EphrinB2 in Distal Pulmonary Epithelial Formation. Presentation at: AAP South Central Perinatal Conference, Austin, TX, 10/26-28/10

**Afanador M**, Bennett KM, Legan S, Xu H, Dravis C, Williams O, Savani RC, Henkemeyer M, Schwarz MA. Mice lacking Ephrin B2 reverse signaling have increased lung fibronectin deposition and compromised pulmonary function. Oral presentation at PAS, Denver, CO, 4/30-5/2/11

## Tara Lynn DuPont, M.D. (2008-2011)



### Licensure

2007 Texas State Board of Medical Examiners

### Education

#### Medical:

2000-2005 University of Texas Health Science Center Houston MD

#### Postgraduate:

2005-08 University of Texas Southwestern Medical Center Internship & Residency  
General Pediatrics

2008 – 2011 University of Texas-Southwestern Medical Center Fellowship  
Neonatal/Perinatal Medicine

### Honors/Awards

1997-99 All American Big West Conference

1996-97 Crimson Scholar

1999 Dean's Honors

1998-99 NMSU Athletic Academic Honors

1998-99 Golden Key National Honor Society

### Research

Title: "Systemic Hypothermia for Hypoxic-Ischemic Encephalopathy: MRI Findings and Outcome"

Mentor: Pablo Sanchez, M.D.

### Abstracts

**Dupont T, Sanchez P.** Implementation of Systemic Hypothermia for Hypoxic-Ischemic Encephalopathy (HIE): What's the Outcome? Poster presentation at PAS-SPR, Baltimore, MD, 5/3/09

**DuPont TL**, Chalak LF, Morris M, Heyne R, Sanchez PJ. Implementation of systemic hypothermia for hypoxic-ischemic encephalopathy (HIE). Oral presentation at Sixteenth Annual South Central Conference on Perinatal Research, Mead Johnson Nutritionals, Austin, TX, 10/27-29/09

**DuPont TL**, Chalak LF, Morriss MC, Heyne R, Sánchez PJ. Short-term outcomes of infants who did not qualify for hypothermia therapy for hypoxic ischemic encephalopathy. Poster presentation at PAS-SPR, Vancouver, Canada, 5/10

Kapadia VS, Chalak LF, **DuPont TL**, Christie L, Burchfield J, Brion LP, Wyckoff MH. Hyperoxemia within the 1st hour of life following perinatal asphyxia and subsequent development of moderate-severe hypoxic ischemic encephalopathy (HIE). ). Platform presentation at PAS-SPR, Vancouver, Canada, 5/10

**DuPont TL**, Chalak LF, Heyne R, Morriss MC, Sánchez PJ. Short-term outcomes of infants who did not qualify for hypothermia therapy for hypoxic ischemic encephalopathy. Presentation at: AAP South Central Perinatal Conference, Austin, TX, 10/26-28/10

**DuPont TL**, Chalak LF, Morriss MC, Rollins N, Heyne R, Sánchez PJ. Neurodevelopmental (ND) Outcomes and Brain MRI Findings in Infants Treated with Systemic Hypothermia for Hypoxic-Ischemic Encephalopathy (HIE). PAS-SPR 2011

## Natalie Williford Frost, M.D. (2008-2011)



### Licensure:

2007	Texas State Board of Medical Examiners
2007	Tennessee State Board of Medical Examiners
2007	American Board of Pediatrics

### Education:

#### Medical:

2000-04	University of Texas Southwestern Medical School, Dallas, Texas	MD
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#### Postgraduate:

2004-07	Vanderbilt Children's Hospital, Vanderbilt University Medical Center, General Pediatrics	Internship & Residency
2007-08	Pediatric Hospital Physicians of North Texas, PA	Pediatric Hospitalist
2008 – 2011	University of Texas-Southwestern Medical Center Neonatal/Perinatal Medicine	Fellowship

### Honors/Awards

1998	Winnie K. and D.M. Wiggins Medal for excellence in character, personal development, and academic achievement, Hardin-Simmons University
1998	Summa Cum Laude, Bachelor of Science, Hardin-Simmons University
1996-1998	Alpha Chi Honor Society
1996- 1998	Beta Beta Beta Biology Honor Society
1996-1998	Gamma Beta Phi Honor Society
1996-1998	Kappa Mu Epsilon Mathematics Honor Society
1995-1998	President's List
1995-1998	Dean's List
1996	Freshman Chemistry Award
1996	Freshman Mathematics Award

**Research**

Title: Estrogen and Estrogen Receptor Modulation in BPD  
Mentor: Philip Shaul, MD

**Grants**

2009 –10 **Ikaria: Advancing Newborn Medicine Grant Program:** “Estrogen and Estrogen Receptor Modulation of BPD” \$10,000.

## Vishal Subodhbhai Kapadia, M.D. (2008-2011)



### Licensure

2007	Texas Physician in Training Permit
2007	Illinois License

### Certification

2005	Educational Commission for Foreign Medical Graduates
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### Education

#### Medical:

1995-2001	Smt. N.H.L. Municipal Medical College, India	MD
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#### Postgraduate:

2001-04	Smt. N.H.L. Municipal Medical College, India, General Pediatrics	Residency
2006-08	University of Illinois at Chicago, General Pediatrics	Residency
2008 - 2011	University of Texas-Southwestern Medical Center Neonatal/Perinatal Medicine	Fellowship

### Honors/Awards

2003	First Prize for presentation of “Study of Health & its Awareness in Late Adolescents” at 28 <sup>th</sup> Annual Conference, Indian Academy of Pediatrics
2010	PAS Young Investigator Travel

### Grants

2010 – 11	Children's Medical Center Foundation: North and Central Texas Clinical and Translational Science Initiative (NCTCTSI) Pilot Grant Award Program: “Randomized Trial of a Limited versus Traditional Oxygen Strategy During Resuscitation to Prevent Oxidative Stress in Premature Newborns Research” Mentor: Myra Wyckoff, MD.
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### Research

Title:	Use of controlled oxygen strategy in neonatal resuscitation
Mentor:	Myra H. Wyckoff, M.D.

## **Abstracts**

**Kapadia VS**, Christie L, Wyckoff M. Early Hyperoxemia Following Acute Asphyxia is Associated with Moderate/Severe Hypoxic Ischemic Encephalopathy: Does 100% Oxygen during Resuscitation put Newborns at Risk? Oral presentation at 16th South Central Conference on Perinatal Research, Austin, TX, 10/27-29/09

**Kapadia VS**, Chalak LF, Dupont TL, Christie L, Burchfield J, Brion LP, Wyckoff MH. Hyperoxemia within the 1st hour of life following perinatal asphyxia and subsequent development of moderate-severe hypoxic ischemic encephalopathy (HIE). Platform presentation at PAS-SPR, Vancouver, Canada, 5/10

## John Eric Sparks, M.D. (2008-2011)



### Licensure

2008 Texas Physician in Training Permit  
2008 Indiana Medical License

### Education

#### Medical:

2000-05 Texas Tech University Health Sciences Center, MD  
Lubbock, TX

#### Postgraduate:

2005-08 Texas Tech University Health Sciences Center, Internship &  
Lubbock, TX, General Pediatrics Residency  
2008 – 2011 University of Texas-Southwestern Medical Center Fellowship  
Neonatal/Perinatal Medicine

### Honors/Awards

1998-2000 Alpha Epsilon Delta Honor Society  
1998-2000 Dr. William P. Ball Scholarship  
1998-2000 Baylor University Presidential Scholarship  
2009 Mead Johnson Travel Grant

### Extramural Committees:

2010- Fetus and Newborn Committee, Texas Pediatric Society

### Research

Title: Randomized controlled trial of asynchronous compressions and ventilation cycles versus standard NRP CPR for resuscitation in a neonatal swine asphyxia model

Mentor: Myra H. Wyckoff, M.D.

### Grants

2010-11 Children's Medical Center Children's Clinical Research Advisory Committee (CCRAC): "Randomized Controlled Pilot Study of Asynchronous Compression and Ventilation Cycles vs. Standard NRP CPR for Resuscitation in Neonatal Swine Asphyxia Model"

2011-12 NRP Young Investigator Award: "Randomized, Controlled Pilot Study of Asynchronous Compression and Ventilation Cycles vs. Standard NRP CPR for Resuscitation in a Neonatal Swine Asphyxia Model"

## **Invited presentations**

**Sparks JE.** Current Concepts in Neonatal Resuscitation. Presented at: Annual Respiratory Care Symposium, Texas Society of Respiratory Care, Plano, TX, 4/23/10

## **Abstracts**

**Sparks JE,** Jaleel MA, Christie L, Brion LP, Wyckoff MH. Oral presentation at 75th Perinatal and Developmental Medicine Symposium “The Art and Science of Resuscitation”, Mead Johnson Nutritionals, Marco Island, FL, 11/19/09

**Sparks JE,** Jaleel MA, Christie L, Brion LP, Wyckoff MH. Impact of Changes in the 2006 Neonatal Resuscitation Program Recommendation for Epinephrine Usage in the Delivery Room. Oral presentation at Seventeenth Annual South Central Conference on Perinatal Research, Austin, TX, 10/26-28/10

**Sparks JE,** Jaleel MA, Christie L, Brion LP, Wyckoff, MH. Impact Of Changes In The 2006 Neonatal Resuscitation Program (NRP) Recommendations For Delivery Room Epinephrine Use. Platform Presentation at PAS, Denver, CO, 4/30-5/2/11

**Sparks JE,** Chalak LF, Perlman JM, Wyckoff MH. Ergonomics of neonatal CPR: Cardiac compressions from the patient’s side versus head of bed. Platform Presentation at PAS, Denver, CO, 4/30-5/2/11

## **Nathan Cole Sundgren, Ph.D., M.D. (2007-2011)**



### **Licensure:**

2007                      Texas State Board of Medical Examiners

### **Education:**

#### **Medical:**

1997 – 2005                      Oregon Health & Science University School of                      MD, PhD  
Medicine, Portland, Oregon.

#### **Post Graduate:**

2005 – 2007                      University of Texas-Southwestern Medical Center                      Internship &  
General Pediatrics                      Residency  
2007 - 2011                      University of Texas-Southwestern Medical Center                      Fellowship  
Neonatal/Perinatal Medicine

### **Honors/Awards:**

1995                      Murdock Student Research Scholar, Heart Research Center, Oregon  
Health & Science University  
1996                      Outstanding Graduate in Biology, George Fox University  
2003                      President's Presenter Award (for outstanding abstract effectively  
furthering the objectives of the Society), Society for Gynecologic  
Investigation  
2004                      Journal Cover Article: *Am J Physiol Regul Integr Comp Physiol*,  
January–June

### **Research**

Title:                      Fc gamma receptor I signaling in CRP induced Hypertension  
Mentor:                      Philip Shaul, MD

### **Grants**

2002-2003                      American Heart Association Pre-Doctoral Fellowship. How Does IGF-1 affect  
Fetal Heart Growth? Grant 0215264Z  
2008-2010                      Physician Scientist Training Program, UTSW  
2010-2011                      NIH Loan Repayment Program (LRP)

2010-2011

Children's Medical Center: Children's Clinical Research Advisory Committee (CCRAC): "Role of Fc Receptors in High Fat Diet-Induced Hypertension"

## **Publications**

### *Peer-reviewed Articles:*

**Sundgren NC**, Giraud GD, Schultz JM, Lasarev MR, Stork PJS, Thornburg KL. Extracellular signal-regulated kinase and phosphoinositol-3 kinase mediate IGF-1 induced proliferation of fetal sheep cardiomyocytes. *Am J Physiol Regul Integr Comp Physiol* 285: R1481-R1489, 2003 (Cover Article of January-June, 2004, of print journal)

**Sundgren NC**, Giraud GD, Stork PJ, Maylie JG and Thornburg KL. Angiotensin II stimulates hyperplasia but not hypertrophy in immature ovine cardiomyocytes. *J Physiol* 548: 881-891, 2003.

Habecker BA, Klein KG, **Sundgren NC**, Li W, Woodward WR. Developmental regulation of neurotransmitter phenotype through tetrahydrobiopterin. *The Journal of Neuroscience* 22(21): 9445-9452, 2002.

### *Invited:*

Thornburg, KL and **Sundgren, NC**. Cell stretch may be necessary for normal development. Invited commentary. *Pediatric Research* 50(1), 2001

## **Abstracts**

Thornburg, K, Louey, S, Chattergoon, N, O'Tierney, P, **Sundgren N**, Jonker S, Giraud, G. Pro- and anti- proliferation in immature cardiac myocytes: Who Wins? *Western Pharmacology Society – 51<sup>st</sup> Annual Meeting*. January 2008

**Sundgren NC**, Giraud GD, and Thornburg KL. Insulin-like growth factor-1 downregulates the intra-renal renin-angiotensin system in fetal sheep. *FASEB Conference – molecular and cellular signaling in the perinatal cardiovascular system*. August 2004.

Giraud GD, Karamlou K, **Sundgren NC**, Jonker SJ, Ungerleider R, and Thornburg KL. Cardiac myocyte development from fetus to the newborn, functional and signaling changes. *FASEB Conference – molecular and cellular signaling in the perinatal cardiovascular system*. August 2004.

**Sundgren NC**, Giraud GD, Jonker SJ, Schultz J, Stork PJ, Maylie JG, Thornburg KL. IGF-1 causes a proliferation, but not hypertrophy, of fetal sheep cardiomyocytes *in vivo* and *in vitro*. *Experimental Biology FASEB Conference*, April 2003.

**Sundgren NC**, Giraud GD, Stork PJ, Thornburg KL. Differential roles of Angiotensin II and Phenylephrine in Cultured Fetal Sheep Cardiomyocytes. *Society for Gynecologic Investigation*, March 2003. (**President's Presenter Award**)

B. Habecker, M. Klein, **N. Sundgren**, and W. Woodward. Target Suppression of a Tyrosine Hydroxylase Cofactor in TH-Containing Cholinergic Sympathetic Neurons. *Soc. Neurosci. Abst.* 2000.

Habecker, B. A., Klein, M., Luo, Z., and **Sundgren, N.** Regulation of catecholamine content in TH-immunoreactive cholinergic sympathetic neurons. *Catecholamine Gordon Conference*, Queen's College, Oxford, UK. 1999

**Sundgren NC**, Mineo C, Shaul PW C-Reactive Protein Antagonizes Endothelial NO Synthase via FcγRI and Src Kinase-dependent Activation of FcγRIIB. *Am Heart Association* 11/15/10