2010-2011
Summary of Scholarly Activities
Comprehensive Sickle Cell Center

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Vichinsky E, Bernaudin F, Forni GL, Gardner R, Hassell K, Heeney MM, Inusa B, Kutlar A, Lane P, Mathias L, Porter J, Tebbi C, Wilson F, Griffel L, Deng W, Giannone V, Coates T. Long-term safety and efficacy of deferasirox (Exjade) for up to 5 years in transfusional iron-overloaded patients with sickle cell disease. Br J Haematol. 2011 Aug;154(3):387-97.

II. PUBLISHED ABSTRACTS

Aygun B, Wruck L, Schultz WH, Odame I, Brown RC, Owen WC, Berman BW, Imran H, Thornburg C, Neier M, Godder K, Nelson S, Gauger CA, Ware R, The TWITCH Investigators. Academic community standards for chronic transfusion therapy in children with sickle cell anemia and abnormal transcranial doppler velocities. Blood. 2010 Nov;116(ASH Annual Meeting Abstracts):2643. Available from: http://abstracts.hematologylibrary.org/cgi/content/abstract/116/21/2643

Hulali T, Hamm C, Kalpatthi R, Imran H. Evolution of pulmonary hypertension and associated risk factors in children with sickle cell disease. Blood. 2010 Nov;116(ASH Annual Meeting Abstracts): 2676. Available from: http://abstracts.hematologylibrary. org/cgi/content/abstract/116/21/2676

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Haynes J. Invited speaker. What do you need to know about sickle cell disease and sickle cell trait. Alpha Phi Alpha Alabama District Convention; 2010 Oct 22; Mobile, AL.

Haynes J. Invited speaker. Hospital management of sickle cell pain crisis. Greenwood Leflore Hospital; 2010 Nov 4; Greenwood, MS.

Haynes J. Invited speaker. Pathophysiology and medical manifestations of sickle cell disease. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 7; Mobile, AL.

Haynes J. Invited speaker. Adult care: addressing common challenges. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 7; Mobile, AL.

Haynes J. Invited speaker. Sickle cell disease: an overview. University of South Alabama, African American Student Association; 2011 Feb 8; Mobile, AL.

Haynes J. Invited speaker. Sickle cell trait in athletes. University of South Alabama Division of Cardiology; 2011 Mar 4; Mobile, AL.

Haynes J. Invited speaker. Multiorgan failure syndrome in sickle cell disease. 11th Annual Sickle Cell Regional Conference; USA Student Center; 2011 Apr 9; Mobile, AL.

Haynes J. Invited speaker. Pathophysiology of sickle cell disease. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 9; Mobile, AL.

Haynes J. Invited speaker. Sickle cell trait and athletes. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 9; Mobile, AL.

Imran H. Invited speaker. Management of sickle cell disease in children. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 10; Mobile, AL.

Imran H. Invited speaker. Management of SCD. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 12; Mobile, AL.

Siddiqui A. Invited speaker. Introduction to genetics. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 9; Mobile, AL.

Siddiqui A. Invited speaker. Red blood cell transfusion in sickle cell disease. 11th Annual Sickle Cell Regional Conference; 2011 Apr 9; Mobile, AL.

Siddiqui A. Invited speaker. Introduction to genetics and thalassemia. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 10; Mobile, AL.

Wilson F. Invited speaker. Sickle cell disease. Alabama Newborn Screening Conference; 2011 Aug 19; Prattville, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr: Listed: *America's Top Doctors, Best Doctors in America.* Member, NIH Sickle Cell Advisory Committee; Chapter Review Member, NIH Guidelines for Hydroxyurea Use in Adults; Member, CHEST Foundation National Inner-City Asthma

Initiative Outreach Program; Fellow, American College of Physicians; Fellow, American College of Chest Physicians.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

General Operations: Dr. Johnson Haynes, Jr. continues as Director of the USA Comprehensive Sickle Cell Center. Despite state funding cuts, the USA Comprehensive Sickle Cell Center continues to improve the delivery of clinical and educational services to individuals affected with sickle cell disease, family members of affected individuals, and health care providers.

Research: The Center has ongoing research with Emmaus Medical, Inc. to study "A Phase III, Prospective, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study of L-Glutamine Therapy for Sickle Cell Anemia and Sickle B^0 – Thalassemia" and Novartis Pharmaceuticals to study the "Incidence of Secondary Iron Overload in Adults with Sickle Cell Disease Following Chronic, Intermittent Red Blood Cell Transfusions." Dr. Haynes is also working with the fellows in the Pulmonary Division and Dr. Karen Fagan on pilot studies investigating airflow obstruction in adults with sickle cell disease and pulmonary hypertension and the assessment of pulmonary hypertension in patients with sickle cell disease. Dr. Hamayun Imran is the collaborating investigator and local PI for TWITCH study that sponsored by NIH and led by St. Jude Children's Research Hospital. This is a national three year clinical trial for children with sickle cell disease on chronic transfusion therapy for critical TCD velocity.

Clinical Operations: The 2010-2011 academic year marks the 12th year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. The primary objectives of this clinic are (1) to be a resource for practicing physicians in the University and private community; and (2) to serve as a positive educational experience for primary care residents in the Departments of Internal Medicine and Family Medicine. The clinic is staffed by Dr. Johnson Haynes Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner; Ms. Brittany Brown R.N.; and Ms. Adrienne Petite, Case Manager. Both Internal Medicine and Family Medicine residents rotate on a monthly basis through the outpatient Adult Sickle Cell Clinic. The Adult Sickle Cell Clinic continues to serve patients from the greater Mobile surrounding areas.

Ms. Pack-Mabien and Ms. Brown support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from pediatric to the adult services. Drs. Hamayun Imran, Felicia Wilson, and Abdul Siddiqui provide the care for patients in the Pediatric Sickle Cell Outpatient Clinic.

An adult hematologist and urologist are needed to support the adult operations. Unfortunately, there is no proposed solution to this deficit of overall clinical operations currently in sight.

Education: The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community and supports the Educator/Counselor Certification Program, which took place twice this academic year at the Sickle Cell Disease Association of America, Mobile Chapter. On April 9, 2011 the Center hosted its eleventh conference on "Practical Issues in Sickle Cell Disease XI: Cost Containment of Healthcare Delivery in the Era of Healthcare Reform." Dr. Jane S. Hankins from St. Jude's Children's Research Hospital in Memphis delivered the Cecil Parker Lectureship entitled, "The Use of Hydroxyurea in Sickle Cell Disease" and presented provocative data demonstrating a decrease in the frequency of pain episodes, acute chest syndrome, hospitalizations, and blood transfusions. Dr. R. Allen Perkins, Chairman, Department of Family Medicine, tackled the subject of healthcare reform and its potential impact on today's medical practice. Dr. Johnson Haynes, Jr., discussed the diagnosis and management of multi-organ failure syndrome in sickle cell disease. Emphasis was placed on the need for a multidisciplinary team approach to patient management. Dr. Abdul Siddiqui, Assistant Professor of Pediatric Medicine, addressed red blood cell transfusion therapy in the management of sickle cell disease, its' indications, potential benefits and risk. Dr. John A. Vande Waa, Director of Infectious Diseases, discussed the management of catheter-related infections. Dr. Karen F. Marlowe, Assistant Dean at Auburn University's Harrison School of Pharmacy, focused on opioid risk, evaluation and mitigation strategies. The nursing staff continues to provide a series of lectures to the nursing community within the University of South Alabama and private hospitals in the Mobile community and surrounding counties. As we move forward, we plan to continue the clinical operations with the same drive and integrity as we have in current years. We will continue to seek the grant support necessary to continue all clinical and research activities as well as continue requesting the necessary financial support currently made available by the University of South Alabama College of Medicine.

Other Activities: Dr. Haynes continues to serve as an Alabama Sickle Cell Oversight Regulatory Commissioner. He currently serves on the (NIH) Sickle Cell Advisory Committee and (NIH) Chapter Review Member on NIH Guidelines for Hydroxyurea Use in Adults. As of August 1, 2011, Dr. Haynes was appointed Assistant Dean for Diversity and Cultural Competence. Dr. Felicia Wilson also serves as President on the Sickle Cell Oversight and Regulatory Commission for the State of Alabama as President. The Center's newsletter, "Sickle Cell Today", was distributed in March and September across the State of Alabama to clients, client's families, administrators, community sickle cell foundations, physicians and legislators