

2009-2010
Summary of Scholarly Activities
Comprehensive Sickle Cell Center

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Baliga BS, Haynes J Jr, Obiako B, Mishra N. Combined effects of arginine and hydroxyurea on BFU-E derived colony growth and Hb F synthesis in erythroid progenitors isolated from sickle cell blood. *Cell Mol Biol* [Internet]. 2010 Jun [cited 2010 Sep 10];56(Suppl):OL1290-98. Available from: http://cellmolbiol.com/liste_online_papers.php?Id_Fascicule=311&Annee=2010

II. PUBLISHED ABSTRACTS

Al-Ali M, Tran T, Franklin P, Haynes J, Mughal MM. Assessment of pulmonary hypertension in patients with sickle cell disease with tricuspid regurgitant jet velocity of ≥ 2.5 m/second on a routine echocardiogram. *Chest* 2009 Oct 1;136:61S. Available from: <http://meeting.chestpubs.org/cgi/content/abstract/136/4/61S-a>

Elkheder A, Fagan KA, Haynes J. Conventional spirometry vs impulse oscillometry: diagnostic utility in defining airflow obstruction in adult patients with sickle cell disease. *Amer J Resp Crit Care Med* 2010 May 19;181:A5910. Available from: http://ajrccm.atsjournals.org/cgi/reprint/181/1_MeetingAbstracts/A5910

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Haynes J. Invited speaker. Pulmonary complications in sickle cell disease. Memorial Healthcare System Sickle Cell Disease Symposium; 2009 Oct 27; Ft. Lauderdale, FL.

Haynes J. Invited speaker. A primary care provider guide to preventative care in adults with sickle cell disease. University of Alabama Baptist Medical Center; 2009 Nov 12; Montgomery, AL.

Haynes J. Invited speaker. Adult care: addressing common challenges. Sickle Cell Association of America; 2009 Dec 7; Mobile, AL.

Haynes J. Invited speaker. Leadership characteristics. Bishop State Community College; 2010 Apr 13; Mobile, AL.

Haynes J. Invited speaker. Primary care provider guide to preventative care in adults with sickle cell disease. 10th Annual Sickle Cell Regional Conference; 2010 Apr 24; Mobile, AL.

Haynes J. Invited speaker. A primary care provider's guide to preventive and acute care management of sickle cell disease. Southeastern Sickle Cell Disease Association; 2010 Jul 26; Dothan, AL.

Haynes J. Invited speaker. Pulmonary hypertension in sickle cell disease. Morehouse School of Medicine; 2010 Sep 22; Atlanta, GA.

Imran H. Invited speaker. Splenic sequestration crisis: a dreadful complication of sickle cell disease. 10th Annual Sickle Cell Regional Conference; 2010 Apr 24; Mobile, AL.

Pack-Mabien A. Invited speaker. Nursing management of the hospitalized individual with sickle cell disease: the ABCs and one, two, threes. 10th Annual Sickle Cell Regional Conference; 2010 Apr 24; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr., Listed in "America's Top Doctors" by Ltd. Castle Connolly Medical, Castle Connolly Medical, all editions; "Best Doctors in America" by Naifeh and Smith, Woodward White, Inc., 2009-2010.

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 most recently received approval of funding from 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 B⁰ - Thalassemia." Novartis Pharmaceuticals to study the "Incidence of Secondary Iron Overload in Adults with Sickle Cell Disease Following Chronic, Intermittent Red Blood Cell Transfusions." In addition, Dr. Haynes is 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 at the University of South Alabama.

This study is sponsored by NIH and led by St. Jude Children's Research Hospital. It is a national clinical trial for children with sickle cell disease on chronic transfusion therapy for critical TCD velocity. This is a 3-year project.

Clinical Operations: The 2009-2010 academic year marks the close of the 11th 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 Medicine and Family Medicine at the University of South Alabama.

The clinic is staffed by Dr. Johnson Haynes Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner; Ms. Stephanie Durggin, R.N.; and Ms. Adrienne Petite, Case Manager. Both Internal Medicine and Family Medicine residents continue to rotate on a monthly basis through the outpatient Adult Sickle Cell Clinic. The Adult Sickle Cell Clinic continues to serve the greater Mobile area in addition to a continuous influx of patients from surrounding areas. Ms. Pack-Mabien and Ms. Durggin continue to support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from pediatric to the adult services.

Drs. Felicia Wilson and Hamayun Imran are the physicians caring for patients in the Pediatric Sickle Cell Outpatient Clinic. A new pediatric hematologist Abdul Siddiqui, MD recently joined the Department of Pediatrics and has begun providing services in the Pediatric Sickle Cell Clinic.

An adult hematologist and urologist to support the adult operations remain lacking and 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 continues to support the Educator/Counselor Certification Program, which took place 3 times this academic year at the Sickle Cell Disease Association of America, Mobile Chapter. On April 24, 2010 the Center hosted its' tenth conference on "Practical Issues in Sickle Cell Disease X: "Casting The Net." Dr. Kathryn Hassell, Professor of Medicine and Director of the Sickle Cell Center in the Department of Medicine at the University of Colorado in Denver delivered the Cecil Parker Lectureship, "Life's Passages: Making Transition Work in Sickle Cell Disease." Local speakers from the University of South Alabama: Rachel Weaver, PharmD, Johnson Haynes, Jr., MD, Ardie Pack-Mabien, CRNP, Hamayun Imran MD, and Benjamin Estrada MD. Dr. Rachel Weaver discussed "Opioids: The Good, Bad, and Ugly". Dr. Johnson Haynes, Jr. addressed guidelines for the primary care physician that could be used in the preventive and acute care of individuals with sickle cell disease. Ms. Pack-Mabien discussed nursing management of the hospitalized individual with sickle cell disease. Dr. Hamayun Imran's topic concerning splenic sequestration crisis diagnosis and management in sickle cell disease,

and Dr. Benjamin Estrada provided an update on vaccine preventable diseases in patients with sickle cell disease. 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 go forward, we plan to continue the clinical operations with the same vigor 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 being made available by the University of South Alabama College of Medicine.

Other Activities: Dr. Haynes continues to serve as a Sickle Cell Oversight Regulatory Commissioner. Dr. Haynes also serves on several national committees. He currently serves on the Data and Safety Monitoring Board for the Clinical Trials Consortium, National Institutes of Health and the American Thoracic Society Membership Committee. Dr. Felicia Wilson also serves on the Sickle Cell Oversight and Regulatory Commission for the State of Alabama as President. The Center's newsletter, "Sickle Cell Today", was distributed across the State of Alabama to clients, client's families, administrators, community sickle cell foundations, and legislators in September 2010.