
BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

| NAME Gopal, Satish | POSITION TITLE Clinical Assistant Professor of Medicine Divisions of Hematology-Oncology & Infectious Diseases | | |
|---|--|-------|--------------------------------|
| eRA COMMONS USER NAME (credential, e.g., agency login) satish_gopal | | | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.) | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | MM/YY | FIELD OF STUDY |
| University of North Carolina, Chapel Hill NC | BA | 05/97 | Biology & music |
| University of North Carolina, Chapel Hill NC | MPH | 05/00 | Public health |
| Duke University, Durham NC | MD | 05/01 | Medicine |
| University of Michigan, Ann Arbor MI | Internship & residency | 06/05 | Internal medicine & pediatrics |
| University of North Carolina, Chapel Hill NC | Fellowship | 06/11 | Infectious diseases |
| University of North Carolina, Chapel Hill NC | Fellowship | 06/12 | Medical oncology |

NOTE: The Biographical Sketch may not exceed four pages. Follow the formats and instructions below.

A. Personal Statement

I completed a combined fellowship in medical oncology and infectious diseases in June 2012 at UNC-Chapel Hill. I previously have extensive experience working in sub-Saharan Africa as an employee of the Baylor International Pediatric AIDS Initiative. I am currently based in Lilongwe as Clinical Assistant Professor of Medicine at the longstanding UNC Project-Malawi research collaboration, jointly appointed in the Divisions of Hematology-Oncology and Infectious Diseases. In this capacity, I participate in the development of cancer-related activities in Malawi, as 1 of only 2 oncologists in the country at present. My activities include clinical mentoring and training of Malawian providers, patient care, conduct of basic and translational research, and design and execution of observational studies and clinical trials. To date, my own research has primarily focused on lymphoma, and I currently serve as principal investigator of one of the largest observational cohort studies of HIV-associated lymphoma, comprised of ~500 patients in the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS). I am also the recent recipient of a five-year K01 International Research Scientist Development Award from the NIH Fogarty International Center to develop one of the largest prospective longitudinal cohorts of lymphoma patients from sub-Saharan Africa in Malawi. I additionally participate in a number of clinical research projects related to many other cancers in Malawi, including Kaposi sarcoma, breast cancer, head and neck cancer, esophageal cancer, and cervical cancer. I eventually aspire to lead multicenter collaborations to test practical, efficacious cancer therapies with acceptable toxicity for specific application in sub-Saharan Africa, as well as to generate insights into the underlying biology of malignancies in the region.

B. Positions and Honors

Positions and employment

2005-2007 Hospitalist Clinician-Educator, Department of Internal Medicine, Norwalk Hospital, Norwalk CT
2007-2009 Pediatric AIDS Corps Physician, Baylor International Pediatric AIDS Initiative, Moshi, Tanzania

2009-2012 Clinical Fellow, Divisions of Hematology-Oncology and Infectious Diseases, University of North Carolina, Chapel Hill NC

2012- Clinical Assistant Professor of Medicine, Divisions of Hematology-Oncology and Infectious Diseases, University of North Carolina, Chapel Hill NC

Honors

1993-1997 Davie Scholar, UNC-Chapel Hill
2001 Hippocratic Oath Ceremony Student Speaker, Duke University School of Medicine
2001 Intern of the Month, University of Michigan Department of Internal Medicine
2004-2005 Chief Resident, University of Michigan Internal Medicine-Pediatrics Residency Program
2012 Lineberger Clinical Fellows Award
2012 Fogarty Global Health Fellow
2013 AIDS Malignancy Consortium Fellow (inaugural year)
2013 North Carolina Cancer Hospital Endowment Fund Award

Other experience and professional memberships

1996 Intern, Tulsi Rural Development Trust, Chennai, India
1996 Intern, Sankara Nethralaya Ophthalmic Hospital, Chennai, India
1999-2000 Davison Council Service Chair, Duke University School of Medicine
1999-2001 HEY-Durham educator (school-based adolescent health education curriculum), Duke University School of Medicine
2004-2005 Residency Selection Committee, University of Michigan Internal Medicine-Pediatrics Residency Program
2005 Volunteer pediatrician, Hôpital Albert Schweitzer, Deschappelles, Haiti
2005-2007 Volunteer pediatrician, AmeriCares Free Clinic, Norwalk CT
2009- Member, Infectious Disease Society of America
2010- Member, American Society of Clinical Oncology
2010- Member, American Society of Hematology
2011-2012 Invited contributor, US Department of Health and Human Services Panel on Antiretroviral Guidelines for Adults and Adolescents
2012 Reviewer, *AIDS Research and Human Retroviruses*
2012 Reviewer, *PLoS ONE*
2012 Reviewer, *Antiviral Therapy*

C. Selected Peer-reviewed Publications

1. **Gopal S**, Davis MM. Improving delivery of influenza vaccine to nonelderly patients with cardiovascular disease, with and without sufficient national supply of vaccine: a decision analysis. *Human Vaccines* 2005;1:217-223.
2. Frohna JG, Park SM, **Gopal S**. Diagnosing bacterial meningitis after the Haemophilus influenzae vaccine: still a challenge. *Arch Pediatr Adolesc Med* 2001;155:1307-10
3. **Gopal S**. What would I want if this were my father? *JGIM* 2006;21:1121-2.
4. Taylor Z, Bhutani L, Blumberg D, Cowan M, Wara D, **Gopal S**, Gavrilita C, Da-Silva S. Index of suspicion. *Pediatr Rev* 2006;27:463-9.
5. **Gopal S**, Pile JC, Brotman DJ. Clinical conundrum: missing the forest for the trees. *J Hosp Med* 2007;2:105-9.
6. Jain M, **Gopal S**, Trien L. Narrowing in on a diagnosis. *Am J Med* 2007;120:781-2.
7. **Gopal S**, van der Horst C. Tuberculosis and HIV: danse macabre. *AIDS* 2010;24:1953-1954.
8. van der Horst C, **Gopal S**. Primary care for HIV-infected patients in resource-limited settings. *CCO HIV inPractice* 2010. Available at <http://www.clinicaloptions.com/inPractice/Index/HIV.aspx>. Accessed January 19, 2012.
9. Panel on Antiretroviral Guidelines for Adults and Adolescents. Initiating Antiretroviral Therapy in Treatment-Naive Patients, Benefits of Antiretroviral Therapy, Effects of ART on HIV-Related Morbidity, Malignancies. In: Guidelines for the use of antiretroviral agents in HIV-1-infected adults and adolescents. Department of

Health and Human Services. Available at <http://www.aidsinfo.nih.gov/contentfiles/lvguidelines/adultandadolescentgl.pdf>. Accessed October 3, 2012. [pages E6-E7]

10. **Gopal S**, Van Dam C, Wohl D, Richards K, Eron J. Importance of concurrent CART in HIV-associated lymphoma. *Blood* 2012. Available at http://bloodjournal.hematologylibrary.org/content/119/14/3245.short/reply#bloodjournal_el_5297. Accessed September 14, 2012.
11. **Gopal S**, Martin KE, Richards KL, Eron JJ. Clinical presentation, treatment, and outcome among 65 patients with HIV-associated lymphoma treated at the University of North Carolina, 2000-2010. *AIDS Res Hum Retroviruses* 2012;28:798-805.
12. **Gopal S**, Wood WA, Lee SJ, Shea TC, Naresh KN, Kazembe PN, Casper C, Hesselning PB, Mitsuyasu RT. Meeting the challenge of hematologic malignancies in sub-Saharan Africa. *Blood* 2012;119:5078-87.
13. **Gopal S**, Patel MR, Yanik EL, Cole SR, Achenbach CJ, Napravnik S, Burkholder GA, Reid EG, Rodriguez B, Deeks SG, Mayer KH, Moore RD, Kitahata MM, Eron JJ, Richards KL. Temporal trends in presentation and survival for HIV-associated lymphoma in the combination antiretroviral therapy era. *J Natl Cancer Inst* 2013. [in press]
14. **Gopal S**, Patel MR, Yanik EL, Cole SR, Achenbach CJ, Napravnik S, Burkholder GA, Reid EG, Rodriguez B, Deeks SG, Mayer KH, Moore RD, Kitahata MM, Richards KL, Eron JJ. Association of early HIV viremia with mortality after HIV-associated lymphoma diagnosis. [in preparation]

D. Research Support

Ongoing Research Support

UNC Lineberger and CFAR Developmental Research Awards Gopal (PI) 7/1/2012-6/30/2013

Characterizing a large cohort of HIV-associated lymphoma in the CNICS network and examining correlates of clinical outcomes

The aims of this research are to characterize in detail the largest cohort of HIV-associated lymphoma patients receiving routine care in the antiretroviral therapy (ART) era, comprised of nearly 500 patients treated at 8 academic centers across the United States. In this work, we are examining associations between HIV and lymphoma treatment and clinical outcomes, as well as temporal trends in presentation and survival since the beginning of the ART era.

Role: PI

NIH/ FIC K01TW009488-01 Gopal (PI) 9/20/2012-6/30/2017

Developing a prospective clinical cohort of histopathologically characterized lymphoma patients in Malawi

This is an International Research Scientist Development Award to support Dr. Gopal's career development in the areas of HIV-associated lymphoma and lymphoma treatment in resource-limited settings. The goals of this research are to develop one of the only lymphoma cohorts in sub-Saharan Africa which is prospectively and longitudinally characterized with respect to histopathologic, clinical, and laboratory features. Patients receiving treatment according to local standards will be followed for 2 years to evaluate response to therapy, treatment-related toxicities, costs of treatment, and health-related quality of life (HRQOL) measures.

Role: PI

NIH/ NHLBI U54 (not assigned) Ataga (PI) 4/1/2013-3/31/2018

Targeted anticoagulant therapy for sickle cell disease

The goals of this proposal are to deliver training in core competencies necessary for translational researchers, to provide mentoring support to investigators as they progress from mentored research to independence, and to provide opportunities for experiential learning which facilitate linkages between basic and clinical scientists in the area of sickle cell disease.

Role: Translational training core

Pending Research Support

NIH/ NCI R21 (not assigned)

Gopal (PI)

12/1/2013-11/30/2015

Molecular profiling of HIV-associated lymphoma in the US and Malawi

The aims of this research are to perform the first large-scale genomic characterization of HIV-associated lymphoma, using a next generation sequencing approach applied to lymph node specimens from the United States and Malawi. Patient specimens will be taken from two ongoing lymphoma cohort studies in the multicenter CNICS network in the US and in Malawi, for which Dr. Gopal serves as principal investigator, and which will allow correlation of all genomic analyses with robust clinical data.

Role: PI