



Vitamin D Publications and Nutri-Genomic Study Update

M. Edwina Barnett, MD, PhD, MBA, CCBMI, FACP
Director, Data Coordinating Center

Steering Committee Meeting
13 December 2016



CLARK ATLANTA
UNIVERSITY



CHARLES DREW UNIVERSITY
OF MEDICINE AND SCIENCE



TEXAS SOUTHERN UNIVERSITY



UNIVERSITY
of HAWAII®
MĀNOA



XAVIER UNIVERSITY OF LOUISIANA
Unique History, Mission & Faith



Active Research Projects

Title	PI(s)- Institution	Status
<p>To Study the Nutri-Genomic response of Vit-D supplementation in African-Americans</p>	<p>David Martins- CDU and Yuan-Xiang Meng- MSM (Co-PI) Naureen Tareen- CDU</p>	<ul style="list-style-type: none"> • IRB Renewal Approvals: <ul style="list-style-type: none"> ▪ DCC effective until - Mar 10, 2017 ▪ MSM Jun 15, 2016 - Jun 14, 2017 ▪ CDU Sep 12, 2016 - Sep 11, 2017 • Statistical Analyses: <ul style="list-style-type: none"> ▪ Final data analysis and data released on Friday, Sep 09, 2016 ▪ The data tables were provided to the PIs for review ▪ Additional tables requested by the PIs were provided by Dr. Lee • Weekly Meetings and Reports: <ul style="list-style-type: none"> ▪ Last team meeting occurred on Friday Sep 26, 2016 ▪ Last NIH Cumulative report sent on Monday, Oct 17, 2016 ▪ Updates for Monthly RTRN Project Census Report continue to be sent • Publications and Manuscripts (Pilot VitD & Nutri-Genomics) <ul style="list-style-type: none"> ▪ Bi-monthly meeting started Fridays, Oct. 14, 2016 (PIs, Drs. Norris, Lee , Barnett and Sayre in attendance) ▪ Recruitment - Dr. Meng ▪ Methodology - Dr. Norris ▪ HOMA – Dr. Meng ▪ BMI – Dr. Martins

Data Coordinating Center Update

M. Edwina Barnett, MD, PhD, MBA, CCBMI, FACP
Director, Data Coordinating Center

Steering Committee Meeting
13 December 2016



CLARK ATLANTA
UNIVERSITY



CHARLES DREW UNIVERSITY
OF MEDICINE AND SCIENCE



TEXAS SOUTHERN UNIVERSITY
UNIVERSITY
of HAWAII®
MĀNOA



XAVIER UNIVERSITY OF LOUISIANA
Unique History, Mission & Faith



Active Research Projects

Adherence to Highly Active Anti-Retroviral Therapy (HAART): a Trans-Caribbean Study

Dr. Zorrilla, UPR

Status

#2

- **Haiti, UPR and Jamaica**
 - Updating Tracking Form to identify which forms have been completed in REDCap and are available for review.
 - Working on the next set of Data Clarification Forms (DCFs) to be sent to the site.

All sites have been informed that the data collection phase is ending as well as the use of funds. However, data analysis will continue and all the IRBs should be renewed.
- **Regulatory**
 - Haiti / IRB Continuing Review approval – effective until **Sep 25, 2016**
(PI collecting the document from site)
 - Jamaica/IRB Continuing Review approved –effective until **Nov 24, 2016**
(PI collecting the approval letter from site)
 - DCC / IRB Continuing Review approval – effective until Feb 17, 2017
 - UPR / IRB Continuing Review approved – effective until Jun 06, 2017

Database Status	Haiti			UPR			Jamaica			Total		
11-Nov-2016	Female	Male	UNK	Female	Male	UNK	Female	Male	UNK	Female	Male	UNK
	132	67	1	2	0	0	32	30	1	166	97	2
TOTAL	200			2			63			265		

	Total # DCFs Generated	Total # DCFs Sent to Site	Total # DCFs Received back from Site	Total # DCFs Outstanding
Haiti	255	255	216	39
UPR	0	0	0	0
Jamaica	39	39	6	33
Total	294	294	222	72



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), National Institutes of Health.

Active Research Projects

Adherence to Highly Active Anti-Retroviral Therapy (HAART): a Trans-Caribbean Study	11-Nov-2016	Haiti			Total	Puerto Rico			Total	Jamaica			Total	Grand Total Enrolled 422
		n=201 Enrolled				n=125 Enrolled				n=96 Enrolled				
	DATABASE Forms	Incomplete	Unverified	Complete	Incomplete	Unverified	Complete	Incomplete	Unverified	Complete				
Medication Adherence Assessment		103	0	97	200	0	0	2	2	24	0	39	63	265
Informed Consent		96	0	104	200	0	0	2	2	19	0	44	63	265
Participant Information		103	0	97	200	1	0	1	2	25	0	38	63	265
Lab Results		119	0	81	200	0	0	2	2	25	0	38	63	265
Laboratory Form		200	0	0	200	2	0	0	2	63	0	0	63	265
Adherence Questionnaire		102	0	98	200	1	0	1	2	29	0	34	63	265
CES-D Depression Scale		101	0	99	200	0	0	2	2	19	0	44	63	265
Socio-Demographic Lifestyle Questionnaire		102	0	98	200	1	0	1	2	33	0	30	63	265
Stigma of HIV/AIDS: Personal View		103	0	97	200	0	0	2	2	21	0	42	63	265

Status

#3



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), National Institutes of Health.



Communication Update

Communications Support for the **Jackson Hinds Comprehensive Health Centers** – A PMI Cohort Program Federally Qualified Health Centers Pilot

- Opportunity for the RTRN DCC Communications Division to interact and support the efforts of the Jackson Hinds Comprehensive Health Center (**JHCHC**), a PMI Cohort Site (*selected July 2016*)
- JHCHC serves 48,000+ patients (mostly underserved minority individuals and communities) from 24 locations across Mississippi (16 Community Clinics + 8 School-based Clinics) plus 2 Mobile Units
- DCC Director (Dr. M. Edwina Barnett) and the Director of Communications & Marketing (Traci Hayes) met with **JHCHC CEO, Dr. Jasmine Chapman** and the **PMI Leadership Team** (n= 9 physicians and administrators) on Tuesday, **December 6, 2016**



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), National Institutes of Health.



Communication Update

Communications Support for the **Jackson Hinds Comprehensive Health Centers** – A PMI Cohort Program Federally Qualified Health Centers Pilot

Meeting Outcomes:

- **Contract Work** -- JHCHC CEO agreed to **collaborative partnership**; DCC Communications services to be supported through Subcontract (*Scope of work & fee to be determined*)
- **Grant Submission** -- JHCHC and DCC discussed **NOT-PM-17-001** and agreed to **collaborate on application** for *Soon to be Issued Funding Opportunity for All of Us Research Program Community Engagement (OT2)* to support expanded communications efforts; **RFA expected First Quarter 2017**
- **Collaborative Research Partner** – JHCHC is interested in serving as Community partner on RTRN/DCC future grant applications and wishes to look to DCC as a technical partner for their future grant applications



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), National Institutes of Health.

Active Infrastructure Project

Title	RTRN i2b2 & Integration with the SCILHS Network - Project personnel, infrastructure and ETL plan (Phase I and II)
Description	<ul style="list-style-type: none"> • The RTRN i2b2 -- Readiness Status, Installation and Configuration • <u>DCC Information Security & Technology Integration Division (ISTI)</u> is to : <ol style="list-style-type: none"> 1. Coordinate the RTRN-i2b2 implementation at RTRN medical centers 2. Provide technical assistance in deploying hardware and software for i2b2 database node(s), the i2b2 core server node and the i2b2 web client software. 3. Create the i2b2 star schema and the SHRINE integrator 4. Populate the schema and SHRINE with the standard i2b2 ontology 5. integrate different i2b2 nodes with the SCILHS Network 6. Build extract, transform, and load (ETL) processes to streamline loading patients' clinical and demographic data. 7. Participate in RTRN i2b2 weekly meetings (Technical Meetings alternating with Governance Meetings)
Status	<p style="text-align: center;">NIMHD Awarded Administrative Supplement for Project Support</p> <p>Current ACTIVE Sites: Howard (HU), Meharry (MMC), Morehouse (MSM), UPuerto Rico (UPR)</p> <ul style="list-style-type: none"> • Oct 2016 – Built an RTRN-i2b2 deployment team site https://sites.google.com/site/rtrni2b2/home • Oct 2016 - UPR identified 10 clinical partners to be part of the SCILHS Network • Oct and Nov 2016 – Bi-weekly meetings with the SCILHS team and i2b2 Technical team • Oct 2016 - MMC started the SHRINE installation and configuration • Nov 2016 - DCC started the deployment of an i2b2 node and SHRINE at DCC as a proof of concept • Nov 2016 –Institutions will join the SCILHS Network through the SCILHS pre-established centralized SHRINE and <u>not</u> through an RTRN centralized SHRINE • Nov 2016 – DCC seeking an i2b2 Consultant for assistance with the EHRs, ETL of clinical data, and ontology mapping



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), [National Institutes of Health](#).



Active Infrastructure Projects

System/Service	Tasks/Activities
DCC servers Infrastructure	<p style="text-align: center;">NIMHD Awarded Administrative Supplement to Support</p> <ul style="list-style-type: none"> • Oct 2016 – Implemented a version controlled and centralized servers inventory • Oct and Nov 2016 – Finalized the search for a potential Clinical Trials Support System - CTSS for RTRN • Oct and Nov 2016 – Finalized the selection of a Small Grant Program management software for RTRN • Oct and Nov 2016 – Built REDCap survey for RTRN Evaluation Core entitled “Assessing clinical trials readiness, research capacity, and research networking across and beyond RTRN” • Nov 2016 – Decommissioned 4 servers from the DCC infrastructure • Nov 2016 – Added a dedicated server to the infrastructure for VM archiving and data backup • Nov 2016 – Evaluated Sharepoint which includes the Exchange server for Email, Skype conferencing, Microsoft Office 365, and 1TB personal cloud storage as a collaborative platform for RTRN in lieu of the current Oracle Collaboration Suite. • Nov 2016 – Upgraded the CDU and RTRN REDCap servers to version 6.17.2 and added mobile capabilities – tablets and smart phones • Nov 2016 – Built REDCap survey for ACC entitled “RCTR Data Profile”
Profiles: RTRN Research Networking System	<ul style="list-style-type: none"> • Oct 2016 - Customized the co-authorship graph display per range of years • Oct 2016 – Made “required” Profiles fields mandatory • Oct and Nov 2016 – Supported the R3N Division in extracting Profiles usage reports
eagle-i: RTRN Resource Discovery Networking Tool	Maintain hardware, networking, hosting, and OS for Harvard School of Medicine and RTRN <ul style="list-style-type: none"> • Oct 2016 – Completed one server upgrade from RAID 5 to RAID 6
PRCTRC University of Puerto Rico (Dr. Cruz-Correa)	Puerto Rico Clinical and Translational Research Consortium /Hispanic BioBank i2b2 Workgroup <ul style="list-style-type: none"> • Recommended the optimal architecture of the PRCTRC infrastructure to adopt new clinical partners • Recommended the structure of the EMR data for loading information other than the main observation table to the i2b2 datamart
Tech Transfer	<ul style="list-style-type: none"> • Sep 2016 - JSU Patent Office evaluated the ETL Process developed by Mohamad Malouhi, Sr. Software Engineer. • Nov 2016 – Almesha Campbell, JSU Director Technology Transfer, Commercialization, & Research Communications, moved forward to copyright the ETL software



Communication Update

❑ RTRN “RCTR Data Profile”– (October - November 2016)

- Data from **5 RCTRs** (*CDU, MSM, UHM, UPR-MSU and MMC*) presented visually:
 - charts & graphs for **publications, federal grant support, private/pharma funds, community partnerships & projects**, as well as **number of trials, protocols, subjects screened and participants enrolled**

❑ Communications Support for NRMN RROC – (October - November 2016)

- Communication **planning meetings** w/Dr. Japera Johnson, RROC Program Director (10/10) & 2nd mtg w/ RCC Liaison, Dr. Sandra Chang &, RCC Admin Coordinator, Pam Bullard (11/17)
- **NRMN RROC Presentation** by Dr. Johnson at Communications Liaisons meeting (10/21)
- Created **web pages for NRMN information**– homepage banner, breakout page and downloadable presentations/flyers (11/19)

❑ RTRN Website & Newsletter (October - November 2016)

- **836 unique visits to Website** (*compared to 1,112 last Quarter; decrease possibly due to Holiday*)
 - Most viewed pages: Job Opportunities, VMOVE (UPR-MSU fitness initiative) & Research Hub
- **September/October Newsletter** disseminated on 10/18
- **RTRN Year-in-Review issue *in development* – submission deadline Wed, 12/14**
Please send news & announcements to: Communications@rtrn.net



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), [National Institutes of Health](#).



Research Resources and Research Networking Division (R³N) Activities

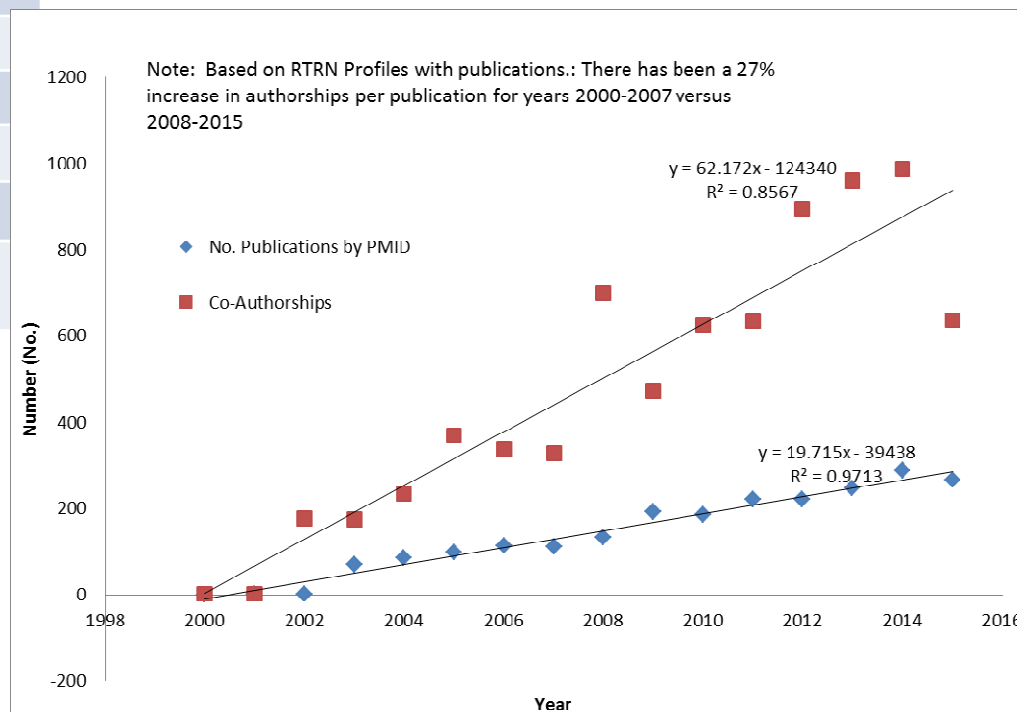
RTRN Profiles: *The metrics were generated from Google Analytics.*

	1 st qrt 2016	2 nd qrt 2016	3 rd qrt 2016
NO. of Profiles	**1841	**1829	**1827
Sessions	2,882	2,879	2,830
Users	2,116	2,150	2,121
Pageviews	14,255	16,202	10,144
Pages/Session	4.95	5.63	3.58
Avg. Session Duration (Mins)	00:04:06	00:03:29	00:02:21

Note: A tertiary cleaning of RTRN Profiles was conducted with the assistance of the Communication Liaisons & Profiles Proxies.

eagle-i Usage

1. The number of resources shared via the eagle-i Resource Discovery Networking Tool has **remained constant** (20,197). Contact information for some resources have been updated as requested.
2. Each institution's core labs are being reviewed within the eagle-i resource discovery tool (www.eagle-i.net). Seven (7) institutions have contributed towards the 3rd Q resource updates ("The Research Hub" – [Resource Discovery Networking Tool](#))



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), National Institutes of Health.

Google Analytics (GA) Definitions

- **Hit** - is ANY request sent to the GA data collection system. This includes pageviews, events, custom variables, measurement protocol uploads, etc.
- **Pageviews** - A pageview is recorded every time a page is viewed. Or, more technically, a pageview is recorded every time the Google Analytics pageview tracking method is executed. When a visitor hits the back button, a pageview is recorded. When a visitor hits refresh, a pageview is recorded. Every time a page is opened in the browser, regardless of whether it has been cached, a pageview is recorded. (Of course this assumes the tracking code is on the page in question.)
- **Pages/Session** – Average number of pages view per user
- **New Sessions** - A session consists of a series of pageviews that a single visitor makes during a period of activity. A visit ends after the visitor either closes the browser, clears cookies, or is inactive for 30 minutes. (The timeout length is customizable in the tracking code settings)
- **Users** - Users are defined by a unique ID - this ID is usually stored in a visitor's cookies. Whenever the tracking code is executed, it looks for cookies on the browser set by the current domain. If they can't be found, new cookies with a new ID are set. Google Analytics emphasizes visits over visitors because of the inherent inaccuracies of trying to track individual users. For example, a visitor who deletes their cookies, uses multiple browsers or shares their computer will show up inaccurately.
- **Bounce Rate** - A visit with one pageview. It doesn't matter how long the visitor was on the page or how they left. Technically, it's a visit with only one interaction.
- **Average Session Duration** - This is measured by subtracting the time a visitor hit a page from the time they hit the next page. (e.g. If they hit Page 1 at 12:00 and hit Page 2 at 12:03, time on Page 1 is three minutes.) This means that the time on page for the last page in a visit is always zero because Google Analytics doesn't track pages being closed.
- **New Visitor** - A visitor who did not have Google Analytics cookies when they hit the first page in this visit. If a visitor deletes their cookies and comes back to the site, the visitor will be counted as a new visitor.
- **Returning Visitor** - A visitor with existing Google Analytics cookies from a previous visit.





Questions ?



RTRN is supported by grant number U54MD008149 from the [National Institute on Minority Health and Health Disparities](#), National Institutes of Health.