



RePORT South Africa



Mark Hatherill
University of Cape Town
RePORT International Meeting-Rio Brazil Sept 2017

RePORT SA

- Agreement for RePORT SA between SAMRC and NIAID/NIH signed April 2015
- RePORT SA initiated in 2016
- Funding provided through the South African Medical Research Council (SAMRC), with funds from the South African Department of Health (NDoH), and National Institute of Allergy and Infection Diseases (NIAID) and National Institute of Health (NIH) & PEPFAR
- Bio-repository for specimen storage is hosted by the HIV Prevention Research unit (HPRU), a unit of the SAMRC located in Durban, SA- funded by SAMRC
- The statistical and data management center is hosted by the Perinatal HIV Research Unit (PHRU) located at Chris Hani Baragwanath Hospital in Johannesburg, SA-funded by SAMRC

RePORT SA: Funded Projects

TB RePORT SA				
Proposal Title	SA PI	SA Institute	US PI	US Institute
The Clinical Research Unit (CRU) for Advancement of Tuberculosis (TB) Biomarker-Targeted Interventions	Mark Hatherill	University of Cape Town (SATVI)	Jerrold Jay Ellner	Boston University Medical Campus
TB in hot and cold spots in South Africa: researching index cases and their households.	Neil Martinson	Wits Health Consortium (PHRU)	Richard E. Chaisson	John Hopkins University
Highly sensitive cartridge-based nucleic acid amplification testing for the diagnosis of pulmonary tuberculosis in children	Mark Nicol/ Heather Zar	University of Cape Town	Jeffrey Starke	Baylor College
Quantifying infectiousness of undiagnosed tuberculosis cases and impact of enhanced community-based active case finding strategy using novel diagnostic tools – a randomized controlled trial	Keertan Dheda	University of Cape Town	Tawanda Gumbo	Baylor Research Institute
Identifying Innovative Bacterial and Host- Mediated Biomarkers of Treatment Response to Tuberculosis Chemotherapy	Alexander Pym	Africa Health Research Institute	Timothy Sterling	Vanderbilt University

RePORT SA: RICC RFA's & Cross Consortium

RePORT Paediatric RFA

- Lala: EDICT study- Enhancing diagnostics and improving outcomes in childhood TB
 - Ethics & hospital approval obtained awaiting district approval
- Nicol/Zar: Oral swab testing nested in RePORT study
 - 124 children tested; single swabs per child from 84 children; two swabs per child from 40 children.

TB-Diabetes Cross-consortium project

- Martinson: Ethics to be submitted in Sept
- Pym, Andrade, Sterling: Prospective profiling of eicosanoid and inflammatory balance in TB-diabetes and TB-HIV

RePORT SA: Scientific projects & Publications

Other scientific projects linked to RePORT

- CORTIS trial; PREDICT trial; ACTTIS study
- Steyn (AHRI): Physiochemical and Bioenergetics Dynamics within the Spectrum of Human TB:
 - agreement under review for final execution
- Martinson
 - Digital x-ray collection to allow mathematical algorithm to diagnose TB
 - Validate sputazol to liquefy sputum allowing ease of separation-Martinson

Publications/presentations resulting from RePORT

- Diagnosis Of Pulmonary Tuberculosis In HIV-Infected And Uninfected Children Using Xpert Mtb/rif Ultra. H. J. Zar, L. Workman, M. Nicol. Am J Respir Crit Care Med 2017;195:A7610.
 Abstract from ATS 2017
- TB, HIV, Diabetes Mellitus and Early TB Treatment Response in Durban, South Africa-Farina Karim, Fernanda Maruri, Khadija Khan, Sashen Moodley, Day Munatsi, Alexander S. Pym, Timothy R. Sterling, Yuri F. van der Heijden- Poster @ RePORT International Meeting, Rio Brazil, Sept 2017
- Accuracy of Ultra for the diagnosis of pulmonary tuberculosis in children- Poster presentation @ RePORT International Meeting, Rio Brazil, Sept 2017

RePORT SA: Site locations

Site locations in SA *



Western Cape

- Klipfontein (Dheda)
- Mitchells Plain (Dheda)
- Red Cross Childrens Hospital (Nicol/Zar)
- Ravensmead (Walzl)
- Khayelitsha (Wilkinson)
- UCT Lung institute (Dawson)
- Worcester (Hatherill)

Eastern Cape

Dora Nginza (Nicol/Zar)

Kwazulu-Natal

Kwadabeka (Pym)

North West

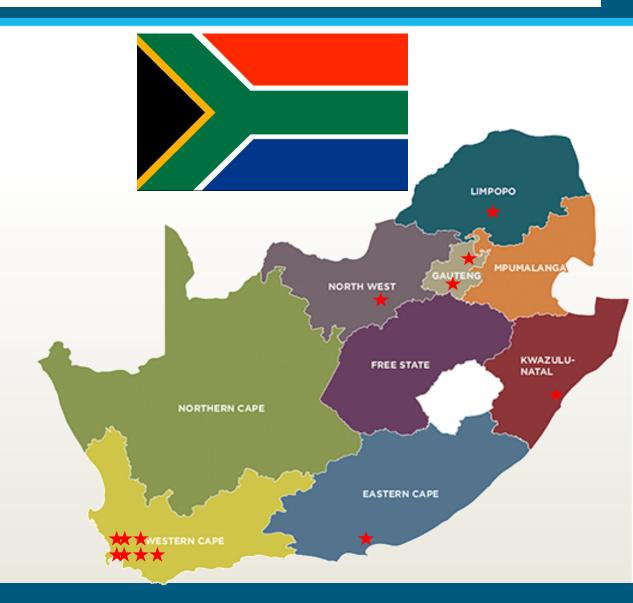
Klerksdorp (Martinson)

Limpopo

Polokwane (Martinson)

Gauteng

- Chris Hani Baragwanath Hospital (Lala)
- Pretoria (Nchabeleng/Fourie/Hatherill)



Common Protocol Status: Cohort A

Site name	Date started enrollment	# Enrolled/ target (%)	Completing 6 mo/24 mo follow up (%)	LTFU* at 6 mo/24 mo (%)	Known endpoints? (failures, relapses)
Nicol/Zar	March 2016	240/450 (53%)	22%/0%	0%	2 relapse
Pym	Dec 2016	64/75 (85%)	3%/0%	0%	None yet
Dheda	March 2017	4/60 (7%)	0%/0%	0%	None yet
Martinson	May 2017	22/300 (8%)	0%/0%	0%	None yet
Hatherill**	pending ethics approval	0/50 (0%)	N/A	N/A	N/A

^{*}LTFU = lost to follow-up

^{**}Supplementary funding from SAMRC March 2017

Common Protocol Status: Cohort B

Site name	Date started enrollment	# Enrolled/ target (%)	Completing 6 mo/24 mo follow up (%)	LTFU* at 6 mo/24 mo (%)	Known endpoints? (failures, relapses)
Dheda	March 2017	3/150 (2%)	0%/0%	0%	None yet
Martinson	May 2017	23/1200 (2%)	0%/0%	0%	None yet
Hatherill	June 2017	50/225 (22%)	0%/0%	0%	None yet

^{*}LTFU = lost to follow-up

Common Protocol Sample updates

Cohort A = 344 (30%)

Sample type	Aliquots
Paxgene	258
QGIT	280
Whole Blood (DNA)	138
PBMC	41
Plasma	731
Urine	832
Saliva	200
Sputum	566
MTB Isolate	272

Cohort B = 76 (4%)

Sample type	Aliquots
Paxgene	70
QGIT	528
Whole Blood (DNA)	29
PBMC	204
Plasma	216
Urine	579
Saliva	288

^{*}Excludes Nicol/Zar sample storage

RePORT SA: Future Data or Sample Sharing

- Data/sample-sharing issues for discussion:
 - Data Sharing agreement under review by RICC
 - Need for a country-level consortium agreement
- Are there any definite or planned RePORT-based projects you would like to propose for discussion?
 - None yet
- Laboratory issues for discussion?
 - Standardization of FBS for PBMC's

Cape Town, South Africa

