IMPAACT Network Overview

May 2024





IMPAACT's Mission

To improve health outcomes for infants, children, adolescents, and pregnant and postpartum people who are impacted by or living with HIV by evaluating novel treatments and interventions for HIV and its complications and for tuberculosis and other HIVrelated conditions



3 History and Funding

- Formed in 2006 (preceded by Pediatric AIDS Clinical Trial Group [PACTG])
- Successfully renewed in 2013 and in 2020
- Funded by US National Institutes of Health
 - Division of AIDS (DAIDS), National Institute of Allergy and Infectious Diseases (NIAID)
 - Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
 - National Institute of Mental Health (NIMH)



	gnant & People		Infants	Image: Children		Adolescents		
No	vel and	Durabl	e Therapeuti	ic/Preventive Interv	vention	S		
			Cure and I	mmunotherapy				
Tuk	berculos	sis					BD	
Bra	ain and	Mental	Health					
								International Maternal Pediatric Adolescent AIDS Clinical Trials Network

Research Agenda

5

- Advance treatment during pregnancy and postpartum, aiming to optimize maternal and child health outcomes, and accelerate the evaluation (PK, safety, antiviral efficacy), licensure and optimal use of potent and durable ARVs and other therapeutics for pregnant people and infants, children, and adolescents with HIV and related diseases and conditions
- Evaluate the potential for ART-free remission through therapeutic interventions aimed at prevention, clearance and post-treatment control of HIV reservoirs in infants, children, and adolescents with HIV and leverage expertise for evaluation of vaccines for HIV and related/co-occurring conditions in these populations





6 Research Agenda



- Evaluate novel approaches for tuberculosis prevention, diagnosis and treatment in infants, children, and adolescents and in pregnant and postpartum people with and without HIV that will lead to optimal dosing and regimens, licensing and improved treatment outcomes
- Determine optimal and feasible biological and behavioral methods for the prevention and management of neuropsychological and mental health complications of HIV and its treatment infants, children, and adolescents and in pregnant and postpartum people



7 Organization

IMPAACT is comprised of:

- Clinical research sites where studies are conducted
- Scientific and management leadership groups
- Central resources that support study operations, data collection and analysis, and laboratory testing for Network studies



Science Services Cores

- Social Behavioral
- Pharmacology

Scientific Leadership Group (SLG)

Network Chair* Network Vice Chairs* SDMC Principal Investigators* LC Principal Investigator* Operations Center Director* SMC Chair ICAB Representatives At-Large Investigators NIH Representatives*

*Management Oversight Group (MOG)

Leadership and Operations Center (LOC)

Statistical and Data Management Center (SDMC)

> Laboratory Center (LC)

UCLA (lab support)

JHU

FHI 360

Harvard

Frontier Science

IMPAACT Community Advisory Board (ICAB)

Scientific Committees (SC)

- Therapeutics
- Cure & Immunotherapy
- Tuberculosis
- Brain & Mental Health

Oversight Groups

- Multidisciplinary Protocol Review Group (MPRG)
- Study Monitoring Committee (SMC)
- Network Evaluation Group (NEG)
- Publications Review Group



37 studies enrolled 1st participant

56 studies completed follow-up

11,872 participants enrolled

14,433 participants followed

IMPAACT by the Numbers over the last decade



postpartum

52 **IMPAACT** Sites

Asian Sites

North American Sites

South American Sites





Significant IMPAACT Research Accomplishments over the last decade



transmission during breastfeeding



Significant IMPAACT Research Accomplishments over the last decade



suppressed HIV

Scientific Leadership



22 Network Leadership

The Network is under the leadership of the Network Chair, Sharon Nachman, and the Network Vice Chairs, Patricia Flynn and Philippa Musoke.



Sharon Nachman, MD Network Chair SUNY Health Science Center at Stony Brook



Philippa Musoke, MD International Vice Chair Makerere University-Johns Hopkins University Research Collaboration



Patricia Flynn, MD Domestic Vice Chair St Jude Children's Research Hospital



Scientific Leadership Group Members



Elaine Abrams, MD At-large member Columbia University



Grace John-Stewart, MD At-large member University of Washington



James McIntyre, MBChB, FRCOG Emeritus vice chair Anova Health Institute



John Sleasman, MD At-large member Duke University



Emanueli Msuya ICAB Chair Moshi, Tanzania



David Shapiro, PhD SDMC Co-Principal Investigator Harvard University



Marlene Cooper, MS SDMC Co-Principal Investigator Frontier Science



Grace Aldrovandi, MD LC Principal Investigator University of California, Los Angeles



Operations Center Director

FHI 360

International Maternal Pediatric Adolescent AIDS Clinical Trials Network

24 Scientific Leadership Group (SLG)

- Sets the overall scientific agenda of the Network
- Prioritizes studies across the four research areas and the overall network portfolio
- Reviews proposals for new studies based on scientific merit, potential public health impact, and suitability for network implementation
- Fosters collaboration with other networks and partners



25 Management Oversight Group (MOG)

- Subset of SLG members including the Network chairs and leaders of the Operations Center, Statistical and Data Management Center, and Laboratory Center
- Responsible for
 - -Fiscal oversight
 - -Regulatory compliance
 - -Collaboration agreements
 - -Policies and procedures
 - -Performance monitoring and evaluation



Scientific Committees



28 Scientific Committee Leadership

Cure & Immunology





Deborah PersaudElizabeth McFarlandJohns HopkinsUniversity of Colorado

Therapeutics

Tuberculosis



Anneke Hesseling Desmond Tutu TB Centre



Amita Gupta Johns Hopkins

Brain & Mental Health



Theodore Ruel University of California, San Francisco



Moherndran Archary University of KwaZulu-Natal





Jackie Hoare Megan McHenry University of Cape Town Indiana University

29 Scientific Committee Responsibilities

- Review respective portfolio of studies in the context of evolving science and standards of care
- Identify gaps in the science and new interventions for priority populations
- Ensure that new high priority study proposals are developed for consideration by the SLG



Central Resources



47 Central Resource Components



Leadership and Operations Center (LOC)

Johns Hopkins University (Grantee organization / Network financial management)

FHI 360 (Study development and implementation / Network support)



Statistical and Data Management Center (SDMC)

CBAR at Harvard School of Public Health (Statistical support)

Frontier Science Foundation (Data management support)

Laboratory Center (LC)

University of California, Los Angeles (Laboratory support)



48 Statistical and Data Management Center (SDMC)



ontier

- Located at Center for Biostatistics in AIDS Research (CBAR) at the Harvard School of Public Health in Boston, MA, and at Frontier Science Foundation (FSTRF) in Amherst, NY
- Provides statistical leadership and support through all phases of study design, implementation, and reporting of results
- Maintains databases for IMPAACT studies
- Provides training and technical assistance on data collection and data management for IMPAACT studies



49 Laboratory Center (LC)



- Located at University of California, Los Angeles
- Identifies and implements state-of-the-art laboratory testing in support of IMPAACT's scientific agenda
- Assists in the development and quality assurance of local laboratory capacity at IMPAACT NIAID sites
- Provides technical assistance and support for laboratory aspects of IMPAACT studies



50 Finance and Contracts



- Located at Johns Hopkins School of Medicine
- Administers the IMPAACT grant
- Administers Master Member Agreements (MMA), Protocol Specific Task Orders (PSTO), and Significant Financial Interest (SFI) with each IMPAACT NIAID site and any study-specific sites



51 Operations Center



- Located at FHI 360, in Durham, North Carolina
- Supports the development, implementation and reporting of all IMPAACT scientific protocols
- Provides a central point of coordination, communications, and support to IMPAACT leadership and all Network committees and working groups, protocol teams, and clinical research sites
- Arranges and supports all Network meetings and leadership travel



Community Engagement







64 Site Community Programs

- Community Advisory Boards (CABs) build and foster partnerships between researchers and local study communities impacted by HIV/AIDS
- An active CAB with a committed membership is an integral part in the effort to combat AIDS
- CABs can help strengthen local capacity to respond to critical research needs in the future



65 IMPAACT Community Advisory Board (ICAB)

- Representatives from IMPAACT site community programs participate in the ICAB
 - -1 community educator / community liaison
 - -1 CAB representative
- ICAB members provide input to protocol teams, by reviewing protocols in development and supporting development other studyrelated materials



66 ICAB Representatives on Scientific Committees

- Including community members at all stages and levels of the research process helps build trust and mutual understanding
- Members of the ICAB Leadership Group also participate in IMPAACT scientific committees as voting members
- ICAB representatives on scientific committees review and provide feedback on all new concepts and protocols that are in development



67 Operations Center Community Program

- Coordinates and supports the IMPAACT Network's community participation processes
- Responsible for outlining steps to develop, maintain, support, and encourage the full participation of community representatives in all phases of the research process
- Assists in the development of community education materials and presentations to explain research concepts that support informed consent and increase research literacy



Science Service Cores



70 Scientific Service Cores

Social Behavioral Core

 Ensures that IMPAACT studies are designed and implemented with appropriate consideration of **social-behavioral factors** that may influence outcomes of interest or success of the study

Pharmacokinetic Core

- Develops pharmacokinetic (PK) and pharmacodynamic (PD) models
- Applies statistical methods to optimize study design
- Performs PK/PD analyses of IMPAACT study data



Oversight Groups



73 Oversight Groups

Multidisciplinary Protocol Review Group (MPRG)

 Ensures IMPAACT protocols are scientifically rigorous, accurate, consistent, complete, and standardized to the extent possible

Study Monitoring Committee(s) (SMC)

 Monitors participant safety, progress, and quality and makes recommendations related to study continuation, cohort progression, and dose escalation/dose selection



74 Oversight Groups

Network Evaluation Group (NEG)

- Ensures that the performance of all components of the Network are evaluated
- On behalf of the MOG, oversees periodic evaluations of key Network components

Publications Review Group (PRG)

 Reviews all abstracts and manuscripts reporting on Network studies and relevant investigations to ensure high quality products and scientific rigor





Home / Resources / Manual of Procedures

Manual of Procedures

https://www.impaactnetwork.org/resources/ manual-procedures

This Manual of Procedures (MOP) describes the International Maternal Pediatric Adolescent AIDS Clinical Trials (IMPAACT) Network structure; operating policies; roles and responsibilities of entities and individuals within the IMPAACT Network; protocol development and approval processes; site selection; process; standardized study operations procedures; data and specimen collection and processing procedures; and quality management, monitoring and evaluation of trials conducted by IMPAACT. The IMPAACT MOP is to be used as a reference document for current IMPAACT policies and procedures. Clinical Trial Units are expected to maintain a hard copy of the current IMPAACT MOP at all clinical research sites.

The IMPAACT Network MOP does not replace the study-specific MOP that may be developed for specific IMPAACT studies. The studyspecific MOP contains detailed guidance on study implementation. All study procedures within IMPAACT must be conducted in accordance with the study protocol, the study-specific MOP (if applicable), and this Network MOP. In the event that there are inconsistencies between these documents, the precedence that must be followed is:

- If this Network MOP is inconsistent with the study-specific MOP, the study-specific MOP must be followed.
- If the study-specific MOP is inconsistent with the study protocol, the protocol must be followed.

IMPAACT members are encouraged to contact the relevant individuals within the Network with procedural questions. For study-specific questions related to proper implementation, data collection, and laboratory concerns for a study protocol, contact the IMPAACT Operations Center Clinical Research Manager (CRM), the study-specific statistician and data manager, and the IMPAACT Laboratory Center (ILC) Quality Assurance/Quality Control Group.



THANKS!

