Developing Technologically Advanced Research in Low- and Middle-Income Countries

Isa Abdulkadir
Tina Slusher
Fidelia Bode-Thomas
Sean Riordan
Children's Mercy Hospital, smriordan@cmh.edu

Jean-Baptiste LePichon
Children's Mercy Hospital, jlepichon@cmh.edu

See next page for additional authors

Follow this and additional works at: https://scholarlyexchange.childrensmercy.org/posters

Part of the Bioethics and Medical Ethics Commons, Genomics Commons, International Public Health Commons, and the Neurology Commons

Recommended Citation
Abdulkadir, Isa; Slusher, Tina; Bode-Thomas, Fidelia; Riordan, Sean; LePichon, Jean-Baptiste; Hassan, Laila; Abdullahi, Shehu; Ofakunrin, Akinyemi; Oguche, Stephen; Shapiro, Steven; and Ogala, William, "Developing Technologically Advanced Research in Low- and Middle-Income Countries" (2019). Posters. 81.
https://scholarlyexchange.childrensmercy.org/posters/81

This is brought to you for free and open access by SHARE @ Children's Mercy. It has been accepted for inclusion in Posters by an authorized administrator of SHARE @ Children's Mercy. For more information, please contact library@cmh.edu.
Authors
Isa Abdulkadir, Tina Slusher, Fidelia Bode-Thomas, Sean Riordan, Jean-Baptiste LePichon, Laila Hassan, Shehu Abdullahi, Akinyemi Ofakunrin, Stephen Oguche, Steven Shapiro, and William Ogala

This is available at SHARE @ Children's Mercy: https://scholarlyexchange.childrensmercy.org/posters/81
Developing Technologically Advanced Research in Low- and Middle-Income Countries

Isa Abdulkadir1, Tina Slusher2, Fidelia Bode-Thomas3, Sean Riordan4, Jean-Baptiste Le Pichon5, Laila Hassan1, Shehu Abdullahi5, Akinyemi Ofakunrin3, Stephen Oguche3, Steven Shapiro4, William Ogala1

1Department of Pediatrics Ahmadu Bello University Zaria, Kaduna Nigeria, 2Department of Pediatrics University of Minnesota, Minneapolis, MN; 3Department of Pediatrics University of Jos Nigeria, 4Division of Neurology Children’s Mercy Kansas City, MO, 5Department of Pediatrics Bayero University Kano, Nigeria

BACKGROUND

While there has been a priority in Low- and Middle-Income Countries (LMICs) on addressing urgent clinical issues, there is a strong interest to develop robust more basic and technologically advanced research programs. Achieving this goal often means partnering with High-Income Countries for support with resources and methods. These partnerships raise the old specter of colonialism and inadequate sharing both in the design and the product of research studies.

OBJECTIVE

We present a collaboration between a group of scientists in Nigeria and the USA in developing a genomic research project and the solutions adopted in tackling the ethical implications and partnership equity and ownership of such a project.

METHODS

A collaborative research project was started between 3 large tertiary pediatric hospitals in North and Central Nigeria (Jos, Kano and Zaria) and a pediatric hospital in the USA (Kansas City, MO) & 2nd University (Minneapolis, MN).

The project was constructed on the basis of three basic principles:
1. Equal partnership in development of the project.
2. Equal partnership in sharing in the outcome of the project (abstracts, publications, etc.).
3. Frequent contacts via physical & virtual meetings.

RESULTS

The four steps of the collaboration: Based on a Plan Do Study Act (PDSA) study model

- Plan: Kaduna, February 2017 - Design the study (IRBs, Contracts, MOU…)
- Study: Kano, Zaria and Joss, December 2018 – Preliminary results, evaluate the process
- Act: Ongoing – Implement the decisions taken during the Study phase.

First meeting: Planning, Kaduna, February 2017

METHODS

PHASE 1:

Project Initiation: 1-week retreat in Kaduna, Nigeria.
- Develop the methodology
- MOU: Clear and transparent rules in data sharing and publication credits.

Project Launching: 10-day retreat one year later in Abuja Nigeria: Review and practice:
- Clinical procedures
- Lab techniques

Study and Assess: Review of preliminary data collection after 6 months.
- Interactive observatory group-based observation & feedback process
- Identification of methodological problems in each center (USA and Nigeria).
- Protocol adjustments

PHASE 2:

- Resume data collection.
- Presentation of initial results at PAS (poster 356).
- Continue PDSA process

CONCLUSIONS

We present a model of collaborative research project between LMICs and a High-Income Country that was developed with attention to ethical issues as they pertain to equal participation in development and distribution. We believe that successful collaborative research in LMICs can be developed if a strong emphasis is placed on interactive and egalitarian principles in all aspects of the research project.

REFERENCES


ACKNOWLEDGEMENTS

We wish to thank the entire Stop Kernicterus in Northern Nigeria represented by: USA: Jean-Baptiste Le Pichon MD, Steven Shapiro MD, Richard Woreng MD, Sara Rivera, PA, Tina Shearer, MD. SKINN leadership: Stephen Oguche, IM BCh, Fidleta Bode-Thomas, MBBS, Chris Isichei, MBBC, William N Ogala MBBS.
Jos: Bode Toma, MBBS, Christopher S Yigbea MBBS, Zainab Hassan Hassain, MBBS, David Shew, MBBS, Victor Olupot O Okooye MBBS, Kehinde Adegun, MBBS, Lai Usman, MBBS, E Osilagun, DON, Nursing: Victor C Femi, MBBS, Joseph O Abba, MBBS; Sara N Aro, OND, Samuel Maris, MBBS.
Kano: Zubaida I Farouk, MBBS; Ibrahima Bolu MBBS, MBBS; Ibrahima Bbolu MBBS, MBBS; Binta W Jibir, MBBS, MSc; Zuwaira Hassan MBBS, MBBS, MBBS; Binta W Jibir, MBBS, MSc.
Zaria: Jos Abdulkadir, MBBS, MPH, Lalai Hassan MBBS, MBBS; Fatimah Abdullahi MBBS, MBBS; Sanita Pande MBBS, MBBS; Fatimah Abdullahi MBBS, MBBS; Ibrahima Bbolu MBBS, MBBS.