3rd IeDEA All Africa Meeting 2019

“Going beyond HIV: fostering early career investigators and multiregional collaboration”

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Halloween

• An inversion holiday
• Represented in different ways in many cultures
• A chance to be someone you aren’t
• Family, neighbors, and community
Welcome

• Third meeting of All-Africa (Uganda, Rwanda and now South Africa)
• 180 people, 20 countries, 53 abstracts
• Meet a new collaborator
• Going beyond HIV and accelerate research progress
• Technology some have shoes, and some have Harmonist
• Some just have a CRAZY and BOLD IDEA

You cannot train alone and expect to run a fast time. There is a formula 100% of me is nothing compared to 1% of our team.
• Treat All Priorities
  • Generating Clinical metrics
  • Economic and intervention evaluations
  • Key Populations

• Several publications showing progress and gaps
  • Treatment is increasing
  • not crowding out sicker patients
  • Retention not negatively impacted

• Adding a metric of time to 90:90:90
  • Test often, treat >500, suppress quickly

• Next steps – new site assessment
• Treat All dashboard enhancing visualization and access at multiple levels
• Concurrent epidemics must be managed with equivalent urgency
• South Africa is looking forward
  • Genomics and precision medicine
  • Open Science
  • Partnerships with African neighbors, France and even the Swiss
• Still have major challenges
  • Nutrition, Drowning, Violence
  • Men
Changes from the last initiative

• **Tuberculosis specific sites** under a modified TB RePORT protocol.
  Added in 2019

• **Sentinel Research Network**
  • New co-funding “clinical” ICs: NIDDK, NIAAA, NHLBI
  • Specific sites resourced to prospectively collect data on HIV and co-morbidities
    • Blood pressure, fasting glucose, PeTH DBS, HBV and HCV testing, CD4, VL

• **NICHD and NCI new projects**
  • Cervical cancer treatment outcomes in sub-Saharan Africa
  • Pregnant woman and HIV Exposed Uninfected pharmacovigalence cohort

• **NLM data science support**
  • Development of data support of the SRN
  • Creation of an All-Africa Data dashboard

• **Fogarty supported training program**
  • Trainees from each region, emphasis on D43 & other early stage investigators
Neil Martinson: TB RePORT

Enhancing regional capacity and advancing science using a common protocol

• Find biomarkers for progression risk
• Diabetes as a risk for TB
• Diagnosis of TB in children
• Managing maternal TB
• TB meningitis
• Sage advice as we begin more TB research in | | with TB Report
  • Plan for reductions in TB – there are improvements
  • Not a binary universe – testing and symptoms
  • Rif resistance not MDR
  • True biomarkers can improve research greatly
  • Images of body size
Antoine Jacquet: Sentinel Research Network

• We know NCDs and HIV, and we know risks of NCDs, but less on how these relationships interact in LMIC

• Focus
  • HTA, Diabetes Dyslipidemia (Dr. Gray said 10% of 18 yr RSA boys HTA+)
  • Substance Use, Alcohol and Mental Health – linkages and impact on HIV
  • Liver fibrosis and steatosis

• Labs, questionnaires, fibroscans, Harmonist DES
• Pilot starts January 2020, Enrollment May 2020

Kara Wools-Kaloustian: FIMP

• Skills in study design, data management, interpretation and dissemination of research
• 2 people, 18 months, in 6 regions
• 1 submitted meeting abstract, 1 submitted paper, maybe 1 draft manuscript
Harmonist

• IeDEA DES
  • Added tables, added variables
  • Flexible, updated in real time
  • Robust and reliable transfer of data

• Data Hub
  • Management of study documents

• Will continue to support
  • IeDEA
  • IeDEA TB expansion
  • SRN
  • AYANI
  • and more
Breakout

• Antiretroviral implementation, pharmacovigilance and resistance, including dolutegravir
• Treat All research priorities
  • Differentiated care and desire for delivery options
  • “Same day start” does it work?
    • Emotional distress, isolation, suicide,
    • Fastest starters may not suppress as quickly or durable.
      • Very different from US experience “I would never do testing without having the
        ability to hand them medication at the same time as the positive test result”
• STIGMA
• Comorbidities
• Cancer
• Dolutegravir roll out in Zambia
  • TDF + XTL + EFV + TDF or TAF + XTC + DTG
  • TDF + XTL + LPV-rt to TDF or TAF + XTC + DTG

• Impressive data in smart care and use of these data – VL and chemistries

• Research and implementation questions
  • Safety in children
  • Bone and kidney safety
  • HBV and TB safety (HBV 11% in HIV +)

• Establishment of pharmacovigalence program fully integrated with WHO programs - pharmacist based

• Viral resistance
  • Pre treatment, and acquired resistance

• Challenges – “You will do it, you will manage it well”
  • Viral load
  • Stock availability
  • Moving “happy patients”

\[ s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}} \]
Adolescents and Transition
Vreeman and Tsondai

• HIV is the leading cause of death in 10-19 year olds
• Wave of adolescents infected in 2000 are upon us
• What are the engagement patterns in adolescents
• Lack of provider training in MH and disclosure
• But adolescent means “survivor” - Making them better self managers
• GRADUATE (step 1, build a DES)
• Adolescents and Young Adult Network of IeDEA (AYANI)
  • Exciting prospective cohort of young adults
Screening is vital in cancer survival – breast, cancer and colorectal

• Yet, Screening does harm

• To build a quality program you must monitor it
  • The must be equitable, effective and efficient (cost effective)

• Must understand the structure, the process and the outcomes

• Need Data AND visualization of data
  • The data must move to information to knowledge
Going beyond HIV to accelerate research

• Impressive presentations, scope of work
• Strong underlying structures
  • Staff,
  • Training
  • Technology and approach
• Responsive to the epidemic around us
• Moving beyond basic clinical care
• Addressing challenges of patients as Health Challenges not just “outside our reach”
  • Stigma
  • Gender inequities
  • Violence
Mortality estimates for Children aged <15 years for the Spectrum model: an updated analysis