



3rd leDEA All Africa Meeting 2019

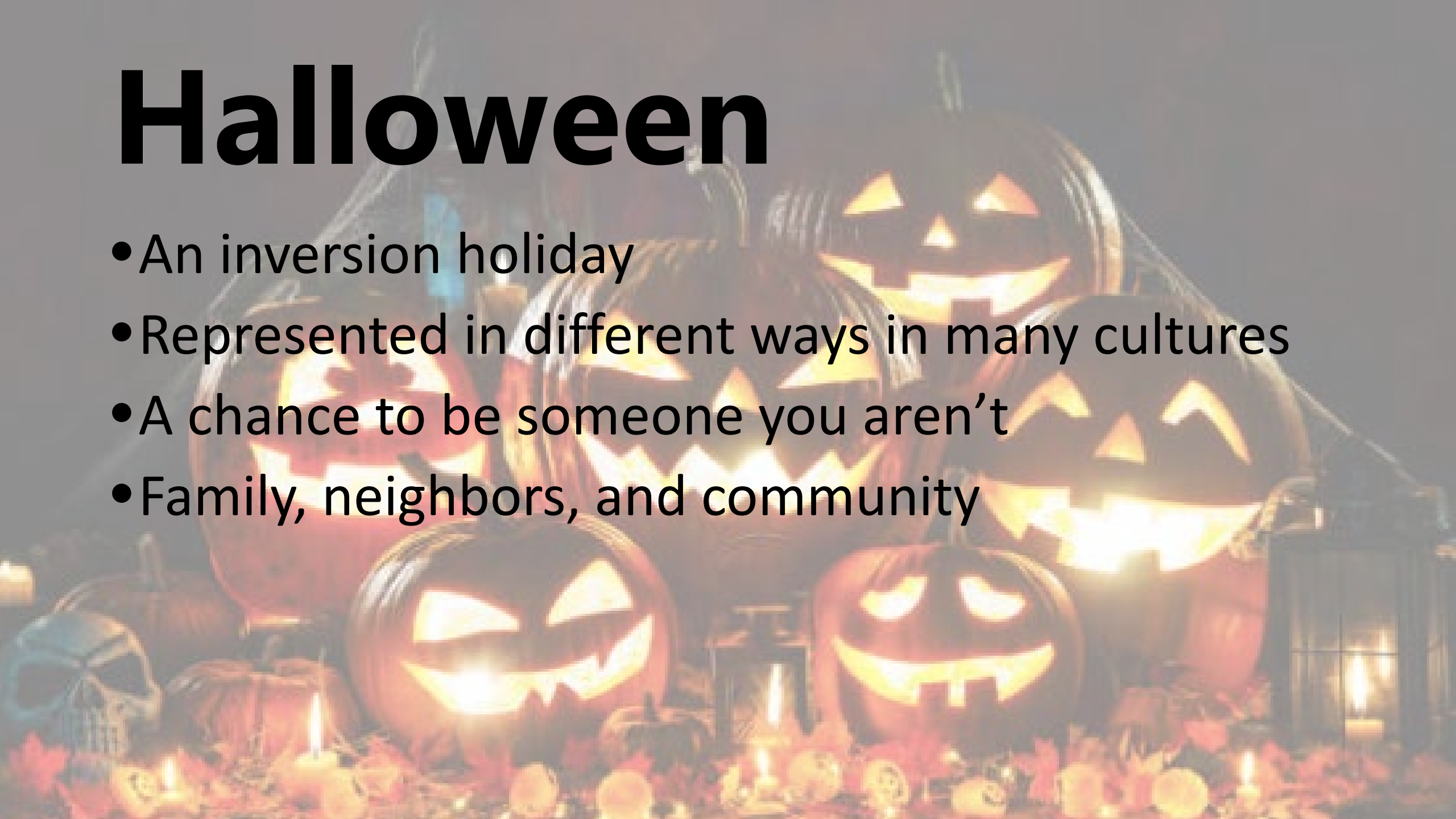
*“Going beyond HIV: fostering early career investigators and
multiregional collaboration”*

**Carolyn Williams, Chief Epidemiology, BSP, DAIDS, NIAID
October 31, 2019**



National Institute of
Allergy and
Infectious Diseases

Halloween

A festive Halloween scene featuring several glowing jack-o'-lanterns with various carved faces, including a large one with a wide, toothy grin. The pumpkins are illuminated from within, casting a warm, orange glow. In the foreground, there are smaller pumpkins, some with candles, and scattered autumn leaves in shades of red, orange, and yellow. The background is dark, suggesting an outdoor setting at night.

- 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.



porfly Next%, a shoe designed to improve running economy by a
it's the only racing shoe in the V-shape formation that shepherds
Eliud Kipchoge to the first sub-two hour marathon in
something different—an iteration of the Next%
if you listen to the Intern

Denis Nash

The effect of 'Treat All' on rapid ART initiation in SSA:
6-country regression discontinuity analysis

- Treat All Priorities

- Generating Clinical metrics
- Economic and intervention evaluations
- Key Populations

- Several publications showing progress and gaps

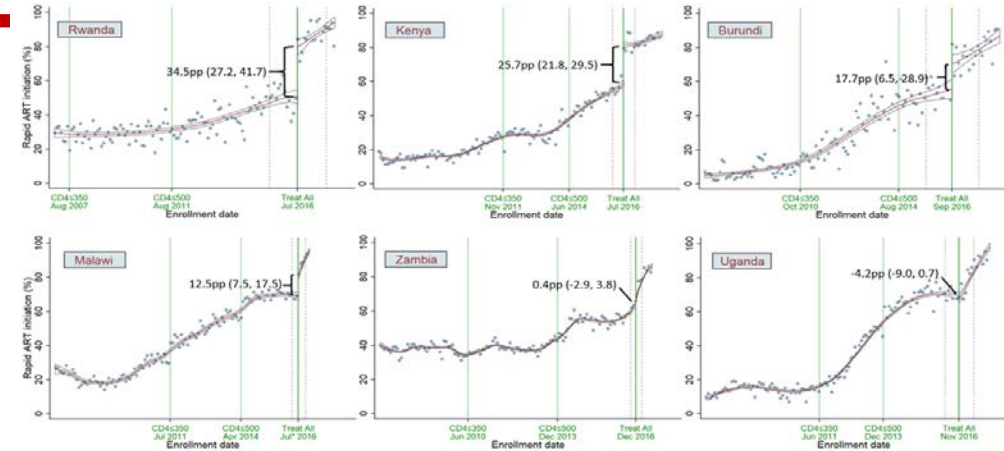
- Treatment is increasing
- not crowding out sicker patients
- Retention not negatively impacted

- Adding a metric of time to 90:90:90

- Test often, treat >500, suppress quickly

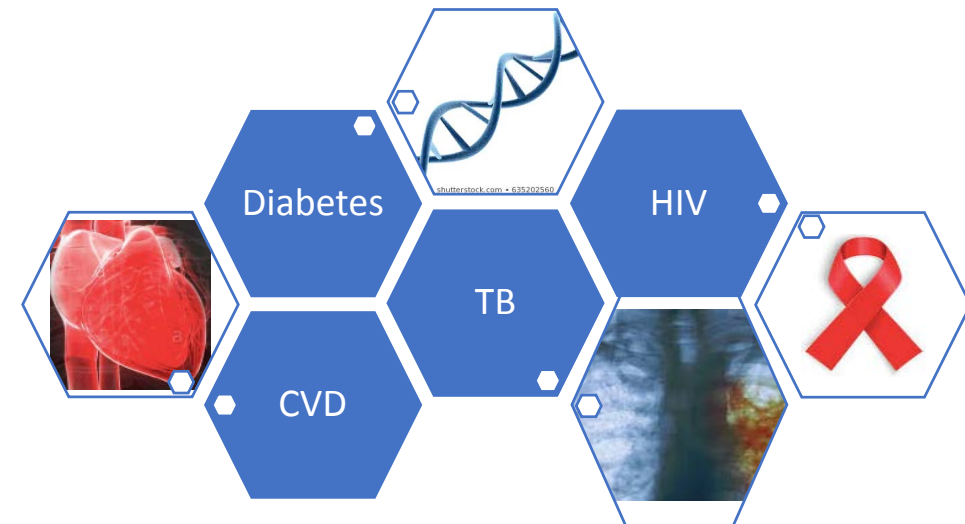
- Next steps – new site assessment

- Treat All dashboard enhancing visualization and access at multiple levels



Glenda Gray

- 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 pharmacovigilance cohort

- **NLM data science support**

- Development of data support of the SRN
- Creation of an All-Africa Data dashboard

- **Fogarty supported training program**

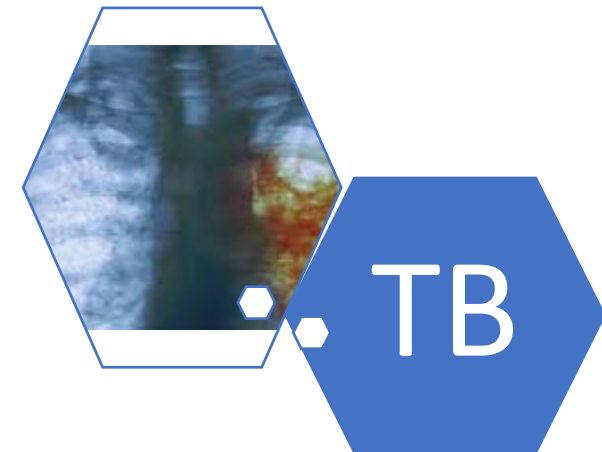
- Trainees from each region, emphasis on D43 & other early stage investigators



Neil Martinson: TB RePORT

Enhancing regional capacity and advancing science using a common protocol

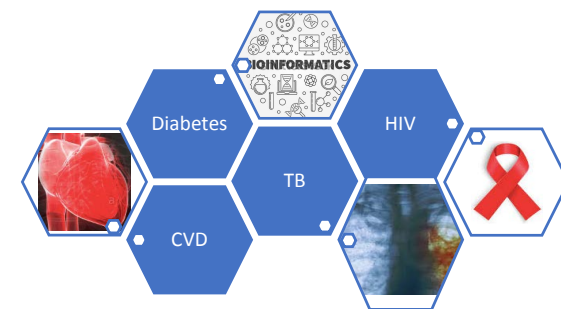
- Find biomarkers for progression risk
- Diabetes as a risk for TB
- Diagnosis of TB in children
- Managing maternal TB
- TB meningitis
- Sage advice as we begin more TB research in || with TB Report
 - Plan for reductions in TB – there are improvements
 - Not a binary universe – testing and symptoms
 - 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

Add resistance testing?



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

- leDEA 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
 - leDEA
 - leDEA TB expansion
 - SRN
 - AYANI
 - and more

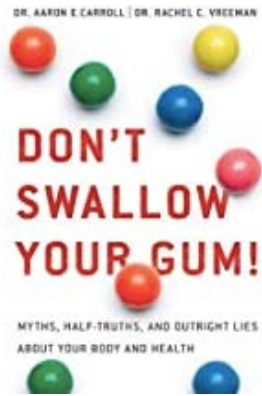
Breakout

- 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

Lloyd Mulenga

- Dolutegravir roll out in Zambia
 - TDF + XTL + EFV + TDF or TAF + XTC + DTG
 - TDF + XTL + LPV-r 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 pharmacovigilance 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

MR 152

Davies

Mortality estimates for Children aged <15 years for the Spectrum model: an updated analysis