Clinical Research Unit of Nanoro
Nanoro HDSS, Burkina Faso

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Site Leader
Where is Nanoro ???

Located at Center Western BF, 85 km from Ouagadougou
(latitude 12.41262, longitude -2.11547)
Clinical Research Unit of Nanoro (CRUN)

- Platform with Good Capacity for conducting clinical trials at high standard level (ICH/GCP) created in 2009.

- Aiming at:

  - Contributing to the formulation and orientation of African public health strategies and programs,

  - And providing competent young scientists with solid experience in clinical and biomedical research
The Nanoro HDSS

- Set up in 2009
- Joined INDEPTH Network in 2010

- HDSS baseline → Avril 2009
- RTS,S trial → Octobre 2009
- PV study → May 2010
Health Demographic Surveillance System

A key platform for research activities at CRUN

Staff:

Demographer: 01
Geographer: 01
Field workers: 19
Community informants: 22

Activities:

1. Collect accurate data and establish the demographic trend, health and socio-economics rates (fertility, mortality, causes of death, migration, immunization);

2. Provide an accurate denominator data used in evaluation of disease burden profiles;

3. Produce comprehensive data easy to use by national health policies makers.

4. Study participants identification and follow-up
Health Demographic Surveillance System

- 64,500 inhabitants recorded

- Regular 4-monthly household updated visits

- Demographics events monitored:
  - Marriages
  - Pregnancies
  - Births
  - In/out migrations
  - Deaths + Verbal autopsies
Demographic Surveillance Area

2 Departments; 24 villages; 1 referral hospital; 7 peripheral HC.
Health Demographic Surveillance System

- Compounds refresh numerating in one village (Poessi) in DSA, October 2010
- Field's staff refresher training before the 6th round, May 2011
- Geo-localization in a new compound by the Geographer, October 2010
- Household interviewing during the 6th round by a Fieldwork, May 2011
Population profile

3 Major ethnic groups: (Mossi 90%, Gourounssi 7.9% and Fulani 1.7%)

Typical of rural low and middle-income countries:
- High birth rate (Total Fertility Rate ~ 5);
- Population is growing rapidly;
- Out-migration is especially high for adult men who move to urban areas looking for jobs

Source: Nanoro HDSS data, 2015
Ongoing Research Projects at CRUN

- **Mal 076**: Extension to study MALARIA-055 PRI (110021) for evaluation of long-term efficacy, safety and immunogenicity of RTS,S’candidate malaria vaccine in infants and children in Africa

- **Mal063**: Immunogenicity of the hepatitis B antigen of the GSK Biologicals’ candidate malaria vaccine (RTS,S/AS01E)

- **SIGMA-TAU**: A phase 2, open-label, multicentre, pharmacokinetic, pharmacodynamics and safety study of a new paediatric eurartesim dispersible formulation and crushed film coated eurartesim tablet, in infant patients with Pf malaria

- **MMV-OZ**: A randomised, double-blind, phase 2b study to investigate the efficacy, safety, tolerability and pharmacokinetics of artefenomel in loose combination with piperaquine phosphate in adults and children with uncomplicated malaria.

- **COSMIC**: Community-based scheduled screening and treatment of malaria in pregnancy for improved maternal and infant health: a cluster-randomized trial (Burkina Faso, Benin and the Gambia)

- **H3AFRICA**: Genomic and environmental risk factors for cardiometabolic diseases in Africans (Kenya, Ghana, Burkina Faso and South Africa)

- **RAPDIF**: A rapid diagnostic test for non-malaria fevers

- **SANOFI – DRI12805**: A Randomized, Double-blind, Phase IIb Study to Investigate the Efficacy, Safety, Tolerability and Pharmacokinetics of a Single Dose Regimen of Ferroquine (FQ) with Artefenomel (OZ439) in Adults and Children with Uncomplicated Plasmodium falciparum Malaria
Move to electronic data collection using tablets.

For the next (15th) round in August 2015.
Perspectives (2)

- **Staff:**
  - Increase the number of highly trained staff (PhD level)
  - Provide a clear career development plan

- **Clinical trials**
  - Expand the trial portfolio to other diseases
  - HIV, TB, Meningitis, Neglected diseases (Schistosomiasis, leishmania, ...)

- **Training**
  - Offer the site platform and expertise for the training of health professionals (Clinical trials, GCP, GCLP, Evidence based medicine...
CRUN: Our partners

- Programme National de Lutte contre le Paludisme (PNLP)
- Direction Générale de la Pharmacie, du Médicament et des Laboratoires (DGPML)
- Institut de Médecine Tropicale (IMT), Anvers, Belgique
- University of Washington
- KIT, Amsterdam
- London School of Tropical Medicine, UK
- Liverpool School of Medicine, UK
- GlaxoSmithKline
- Pfizer
- Sanofi Aventis
- Sigma Tau
- Malaria Vaccine Initiative (MVI)
- Medicine for Malaria Venture (MMV)
- Fondation Bill & Melinda Gates
- OMS / TDR
- EDCTP
- European Union
CRUN : An efficient Platform for population and health research

Thanks!