

Collaboration with the UCLA-DRC Health Research and Training Program

Student: Daniel Hanberry *Second Year MsGH Candidate*



OBJECTIVES OF THE PROGRAM



Assisting in the creation of educational materials for public disclosure with INCEF and WHO in southern Kinshasa

Conduct critical infectious disease research to strengthen local and international capacity to rapidly identify and respond to disease outbreaks while training the next generation of global public health leaders.

STUDENT RESPONSIBILITIES

Projects completed in collaboration with University of California – Los Angeles faculty, Institut National de Reserche Biomedicale staff, and Kinshasa School of Public Health faculty.

- Assisted in QA of attenuated Ebola samples in order to ascertain a novel diagnostic tool for low resource regions
- Screened Congolese social media in order to surmise public opinion regarding Covid-19. Compiled and disseminated weekly reports.

METHODOLOGY FOR SUMMER WORK

For the Ebola Project:

- Utilize MagPix plate scanning tech in order to analyze and assess serological plates.
- Included testing of Serum, PBMC's (Peripheral Blood Mononucleated Cells), and other biomarkers
- Overall project goal is to create a field-stable serological assay capable of testing for all key strains of Ebola such as: EBOV NP, MARV GP, and EBOV VP 40

For the Covid-19 Project:

- Utilize Brand24 social media screening tech in order to compile posts from Twitter and Facebook using a targeted search for key words.
- Assign sentiment scores as well as label tags in order to categorize each post and enable analysis.
- Analyze social media posts to discern public opinion of Covid-19 on a weekly basis
- Compile information into weekly reports, send out to relevant stakeholders in the Ministry of Health, WHO, and other programs.

UCLA



Ecole de Santé Publique de Kinshasa
Kinshasa School of Public Health
UNIVERSITE DE KINSHASA

COVID-19 Vaccination in DRC Week 26

**TITRE: DONNEES DE L'ECOUTE SOCIALE SUR LA COVID-19 EN REPUBLIQUE
DEMOCRATIQUE DU CONGO**

Project Name:

Vaccination contre la Covid-19 en République
Démocratique du Congo : Evaluation des déterminants
comportementaux et sociaux de la vaccination dans les
populations cibles pour améliorer les stratégies de
communication

Date de creation

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Version du rapport

42

Plage de dates :

Du 25 Juin au 1 Juillet 2021

Nombre de jours :

7 jours

FRENCH VERSION

Introduction

L'analyse réalisée dans ce rapport à l'aide de Brand24 avait deux objectifs principaux. Tout d'abord, nous avons analysé les tweets/posts contenant les mots " Covid-19 " ou " Astrazeneca " ou " covid19 " ou " coronavirus " ou " covid " ou " SARS-COV-2 " ou " moderna " ou " Pfizer-BioNTech " ou " SINOVAC " ou " spoutnik " sur les réseaux sociaux, notamment Twitter et Facebook, afin de comprendre les principaux thèmes abordés et les perceptions qui y

sociaux, la portée des médias sociaux, et le sentiment de la population lié à ces posts. Seules les pages de profils ayant plus de 10.000 followers ont été sélectionnées. (Voir Annexe 2 pour les pages). À cette fin, nous avons développé des thèmes émergents pour l'analyse de contenu en lisant les messages et en annotant manuellement ces messages pour déterminer les thèmes généraux (voir l'annexe 1 pour la description des thèmes).

MASTER'S THESIS

Aside from summer work, I am on the Thesis-Based pathway for the MsGH program here at Duke.

My Project: A descriptive data analysis of an original project from 2016. The goal of this analysis is to ascertain the main risk factors for transmission of human respiratory illness to habituated bonobo populations, notably in the DRC.

My Data: I have access to numerous data pools containing human (veterinarians, surrogate mothers, general staff) and bonobo samples such as respiratory swabs, fecal swabs, blood samples, nasopharyngeal swabs, etc. In addition to general knowledge of Lola Ya Bonobo Sanctuary, this data should prove valuable for analysis.



Members of the UCLA-DRC Health Research and Training Program