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Predictive, Precise, Personalized and Prognostic Medicine for NAF-DL, NASH and Liver Cancers in Sub-Saharan Africa: Challenges, Solutions and Perspectives

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Abstract

Background: Five P Medicine (Predictive, Personalized, Preventive, Participating, and Precise, Evidence-Based) for the Management of NAFDL, NASH, Fibrosis, Compensated Cirrhosis, Liver Cancer, HCC Risk and Prognosis, is well established in Rich Western Countries. However, Innovations and Artificial Intelligence such as Glycomics, Genomics, Molecular biology are lacking in Democratic Republic of the Congo (DRC).

Abstract: Thus, this lecture of the Art reports the natural history, the pathogenesis, and the prognostic value of Metabolic Hepatic Steatosis (NAFDL and NASH) for Subclinical Hypothyroidism with Insulin Resistances, Metabolic Syndrome, Ischemic Atherosclerosis, Type 2 Diabetes Mellitus, and HCC Complex Liver diseases (CLD) among Central Africans in Kinshasa from 2000 to 2018.

Methods: Cross-Sectional, Comparative, and Prospective Approaches were used between 1999 and 2004 for inclusion of 228 adults aged >= 40 years after rural – urban migration and CLD.

A prospective study of incident comorbidities CLD was undertaken from 2005 to 2018.

Results: All participants were aged 59.1 ± 11.1 yr with 114 men and 114 women, 75 % (n = 171) and 74.1 % (n = 171) occurred with Insulin Resistance / Metabolic syndrome – subclinical Hypothyroidism and Metabolic Hepatic steatosis (MHstea respectively in the MHstea, 66 % n = 113) and 34 % (n = 58) presented NAFDL and NASH, respectively the Most Important and Independent predictors of Metabolic Hepatic were physical inactivity, smoking Non O – ABO groups, low intake of fruits – vegetables, and diet rich in sugar, fat, salt and highly processed foods.

The most important and independent predictors of comorbidities CLD were Metabolic Hepatic Steatosis Insulin, Hypovitaminosis D, elevated CRP, low selenium, and Hypoalbuminemia Compared to Histopathology (Gold Standard), Ultrasound, Metabolic Hepatic steatosis showed excellent diagnostic performances of HCC (Sensitivity = 94 % and Specificity = 95 %).

Conclusions: As the Diagnosis of HCC is epidemic and late in Kinshasa, Glycomics will anticipate the prevention, the diagnosis and the treatment of NAFDL, NASH, and HCC among poor Congolese Central Africans facing nutrition transitions.

Biography

Professor Benjamin LONGO – MBENZA demonstrated Leadership in Training, Supervision of Master/Phd Theses, Mentoring, Coaching, Awards, Patents, and Engagement for Development, Human Rights, and Medecine of 4P to control traditional endemic or pandemic communicable infectious diseases.

Publications

Benjamin LONGO MBENZA, Anna Louise Barr, Kokou Happy Agoudavi, Sociodemographic inequities associated with participation in leisure-time physical activity in sub-Saharan Africa: an individual participant data meta-analysis December 2020BMC Public Health 20(1)

Benjamin LONGO MBENZA, Charles Mbendi, Aliocha Nkodila, Vanessa Malumba Mpala, Evaluation of the survival of patients with cirrhosis of viral etiology B / C in 3 hospitals of Kinshasa in the Democratic Republic of Congo, May 2020 https://www.researchgate.net/publication/341655934_Evaluation_of_the_survival_of_patients_with_cirrhosis_of_viral_etiology_B_C_in_3_hospitals_of_Kinshasa_in_the_Democratic_Republic_of_Congo

Benjamin LONGO MBENZA, Bernard Kianu Phanzu, Aliocha Nkodila, Kintoki Vita Eleuthère, Association between insulin resistance and left ventricular hypertrophy in sub-saharan hypertensive black patients with preserved ejection fraction: A case control study, June 2020 DOI: 10.21203/rs.3.rs-33818/v1

Benjamin LONGO MBENZA, Dieudonné Sanduku Kisile, Dickson Veyi Tadulu, Predictor's factors of mortality during fasting post-operative digestive surgery in Kinshasa, April 2020

DOI: 10.33545/surgery.2020.v4.i2c.409

Benjamin LONGO MBENZA, Sidwell Mvo, Sandeep Vasaikar, Apalata Teke, Prolongation of acid-fast bacilli sputum smear positivity in patients with multidrug-resistant pulmonary tuberculosis, March 2020 DOI: 10.21203/rs.3.rs-16305/v1

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