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SUMMARY

Dr Khadime SYLLA is a physician with specialization in infectious diseases, parasitology, epidemiology, monitoring, and evaluation, planning and management of tropical diseases control program. He has more than ten years of experience working in Infectious Diseases Control and Prevention, Malaria and Neglected Tropical Diseases (NTDs) in Senegal and countries across francophone west Africa. In the past ten years, Dr. SYLLA has worked with several positions in Senegal Ministry of Health and High Education. In 2008, he was employed by the National Malaria Control Program (NMCP) as an external member and technical advisor of NMCP team. Since this date, he routinely supports the NMCP and participates on NMCP committees including coordination, monitoring and evaluation, epidemiological surveillance, and malaria diagnostic technical committees. He has also been engaged in periodic reviews of program performance and evaluation of the national malaria strategic plan. Dr SYLLA has worked at the operational level at Mbao health district during 2009. Since 2013, he has held the position of scientist and lecturer at the faculty of Medicine of University Cheikh Anta Diop of Dakar (UCAD). Through his academic position at UCAD, Dr Sylla has implemented several clinical interventional and observational studies on malaria and NTDs topics, with the aim of informing NMCP and NTDs programme management and policies. Dr Sylla also has experience at the international level. In 2019, he provided technical assistance to the Nigerian Ministry of Health to develop a strategic transition plan against soil transmitted helminths. Currently, he is supporting five West African countries (Sénégal, Mali, Guinée, Bénin and Togo) for optimizing the use of Praziquantel during Mass Drug Administration campaigns. Having strong interpersonal and communication skills, he is a natural team leader able to manage diversity and conflict. He speaks fluently both French and English. His domains of expertise include capacity building, training, research, health program management, infectious disease control and prevention, technical assistance, data monitoring and analysis (using Stata, Excel, and R softwares), effective partnership development, NGOs and private sector experience, and advocacy and communication.

EDUCATION

- PhD (Parasitology), University Cheikh Anta Diop, Dakar - Senegal, 2016.
- Diploma of Infectious Disease, Faculty of Medicine, University Cheikh Anta Diop, Dakar - Senegal, 2011.
- MSc Biology and Parasite Control, Faculty of Medicine, University Cheikh Anta Diop, Dakar - Senegal, 2011.
- Diploma of Medical Doctor, Faculty of Medicine, University Cheikh Anta Diop, Dakar - Senegal, 2009.

Public Health Specific Education and Training Programs Completed:

- Certificate Policy Development and Advocacy in Global health, University of Washington, Seattle (September 2021).
- Certificate in Leadership and Management in Health, University of Washington, Seattle (June 2021).
- Master in Public Health (Epidemiology), Institute of Health and Development, University Cheikh Anta Diop, Dakar – Senegal, 2020.
- Certificate in Planning and Management of Tropical Disease Control Programmes, Institute of Tropical Medicine, Anvers, Belgium, 2019.
- Certificate in Applied Epidemiology, Emory University, Rollins School of Public Health and Center for Disease Control and Prevention (CDC), Atlanta, October 2016
- Certificate in Monitoring and Evaluation of Health Programmes; Measure Evaluation and National Institute of Public Health Ivory Coast, 2013.
- Diploma of Epidemiology, Victor Segalen University, Bordeaux 2, France, 2011.
- Diploma of Malaria Control, AIX Marseille University, 2010.
- Diploma of Tropical Medicine, Tropical Medicine Institute, University Cheikh Anta Diop, Dakar - Senegal, 2008.

Research Specific Education Programs Completed:

- Diploma of Clinical Trial of Infectious and Tropical Diseases, Institut Pasteur de Paris, 2013.
- Diploma of Advance Good Clinical Practice, Vienne School of Clinical Research, 2012.
- Diploma of Clinical Research, Vienna School of Clinical Research, 2011.
- Diploma of Good Clinical Practice, Vienna School of Clinical Research, 2010.

COMPLEMENTARY TRAINING

- Certificate of Course Completion **Monitoring and Evaluation Fundamentals**, Global Health eLearning Center, USAID, February 2021.
- Training in **Safeguarding, children and women right protection**, Social Development Direct, Dakar June 2019.
- Epidemiology (eLearning training), Institute Pasteur Paris 2015.
- Training in **Pharmacovigilance**; Agency of Medicine Preventive (AMP) and GSK, Ouagadougou, Burkina Faso, April 2014;

- Inaugural West African Regional Workshop on **Protozoan Pathogens**, The US NIAID/NIH, Bamako, Mali 2012.
- Certificate of **Malaria Course Completion**, Global Health eLearning Center, USAID, September 2010.
- **Monitoring and Evaluation of Malaria Control Strategies**, National Malaria Control Program, Dakar 2008.
- **Good Clinical Practice** course, AMANET/INDEPTH-MCTA, 2007.
- **Basic Epidemiology** course, Institute of Health and Development, University Cheikh Anta Diop, Dakar - Senegal, 2007.
- English course, British Council Dakar.
- Informatics course (Word and Excel), Université Cheikh Anta Diop, Dakar - Senegal, 2006.

PROFESSIONAL PUBLIC HEALTH & RESEARCH EXPERIENCES AND COMPETENCIES

- **Current Professional Positions:**
 - **February 2011 to Present: Practicing Medical Doctor, Ministry of Health, Senegal**
 - Providing health care to the population,
 - Providing technical medical guidance and support to clinicians (diagnostic aid, advising clinician on appropriate treatment, etc),
 - Performing supervision of lab technicians, students, and biologists,
 - Conducting hospital-based research and training students who are doing their internship
 - Analyzing using STATA, Excel, and R,
 - Experience in epidemiological surveillance, prevention, and control of infectious and tropical diseases
 - **January 2013 to Present: Scientist and Lecturer, Department Parasitology and Mycology, Faculty of Medicine, University Cheikh Anta Diop, Dakar - Senegal.**
 - Teaching Parasitology, Mycology, Clinical Research and Epidemiology,
 - Training and supervising teams,
 - Research protocol designing, coordinating research implementation, data collection, data monitoring and analysis using STATA, Excel, and R,
 - Performing clinical trial and field epidemiological studies,
 - Publication writing,
 - Performing budget and grant management,
 - Overseeing partnerships development for our department,
 - Designing, planning and implementing research, monitoring and evaluation,
 - Engaging with the Ministry of health to ensure that research findings are known and understood to inform public health policy related to Malaria and Neglected Tropical Diseases.

- Providing routine support to the National Malaria Control Program (NMCP), participating on the NMCP monitoring and evaluation activities, epidemiological surveillance, and malaria diagnostic technical committees,
- Supporting the program of NTDs in the development of National Strategic Plan against NTDs and annual work plan, scaling up of Preventive Chemotherapy strategy, supervising activities,
- Developing partnership with the Ministry of Health and other partners.
- **October to December 2019: ESPEN/WHO Consultant in Niamey, Niger**
 - Technical assistance to the Niger Control Program of Schistosomiasis and Soil Transmitted Helminths (STH) to develop a National Strategic Transition Plan against STH
- **October 2021 to Now: ESPEN/WHO Consultant in Senegal, Mali, Bénin, Guinea and Togo:** Technical assistance “Sub-district data analysis toward optimization the use of Praziquantel during preventive chemotherapy campaign in Africa.

• **Past Professional Positions**

- **July 2010 to January 2011: Research investigator, Department of Parasitology, University Cheikh Anta Diop of Dakar**
 - Project manager: Designing research proposal, planning, implementing, and coordinating activities, monitoring, and evaluation,
 - Supervisor of study team,
 - Training of study staff, nurse and community health worker,
 - Data collection, monitoring, and analysis,
 - Report writing,
 - Presenting data from the study to partners (National Malaria Control Programme, Minister of Health, USAID/PMI).
- **July 2009 to January 2010: Physician in Mbao Health District, Dakar, Ministry of Health, Senegal**
 - Providing health care to the population,
 - Training nurses and community health workers on the National Malaria Control strategies implemented by the NMCP,
 - Supporting the Health District on the supervision of health posts.
- **May 2008 to May 2009: External member of National Malaria Control Program (Prestataire externe)**
 - Providing routine support to NMCP in the field of monitoring and evaluation of malaria control strategies

- 1- **Sylla K**, Tine RC, Ndiaye LA, Sow D, Lelo S, Dia M, Faye B, Dieng T. Distribution of Candida Species and Their Susceptibility to Antifungal Drugs in Dakar, Senegal. *International Journal of Infectious Diseases and Therapy*. 2019, 4; 50-55.
- 2- **Sylla K**, Tine,R.C, Sow D, Lelo S. Dia M, Traoré S, Dieng T. (2019). Epidemiological and Mycological Aspects of Onychomycosis in Dakar (Senegal). *Journal of Fungi*, 5(2), 35.
- 3- **Sylla K**, Tine R.C, Sow D, Lelo S, Ndiaye L.A, Faye B.T. Epidemiological profile of intestinal parasitic infection among preschool and school children living in a rural community in Senegal: A cross sectional survey. *J Bacteriol Parasitol* 2018, 9:4
- 4- **Sylla K**, Tine R.C, Sow D, Ndiaye M, Sarr A, Tshibola Mbuyi M.L, and al. Effect of Seasonal Malaria Chemoprevention (SMC) with Sulfadoxine-Pyrimethamine (SP) and Amodiaquine (AQ) on the acquisition of anti-AMA1 and anti-MSP1₄₂ antibodies among children under 10 years living in the southern part of Senegal (Velingara). *Malar Chemoth Cont Elimination* **2017**, 6:1
- 5- **Sylla K**, Tine RC, Ndiaye M, Sow D, Sarr A, Mbuyi ML, Diouf I, Lô AC, Abiola A, Seck MC, Ndiaye M, Badiane AS, N'Diaye JL, Ndiaye D, Faye O, Dieng T, Dieng Y, Ndir O, Gaye O, Faye B. Sero-epidemiological evaluation of Plasmodium falciparum malaria in Senegal. *Malar J*. **2015**, 16 ;14:275.
- 6- **Sylla K**, Abiola A, Tine R, Faye B, Sow D, Ndiaye J.L, Ndiaye M, Lo A.C, Folly K, Ndiaye L.A and Gaye O. Monitoring the efficacy and safety of three artemisinin based-combinations therapies in Senegal: results from two years surveillance. *BMC Infectious Diseases* **2013**, 13:598
- 7- **K Sylla**, R.C.K Tine, D Sow, T Dieng, B Faye, J.L Ndiaye, A.K Niane, O Gaye et Y Dieng. Epidemiological aspects of intestinal parasitic infection diagnosed in Parasitology and Mycology laboratory of Fann hospital, Dakar. *Médecine d'Afrique Noire Juillet* **2013**
- 8- Tine R.C, **Sylla K**, Faye B.T, Poirot E, Fall F.B, Sow D, Wang D, Ndiaye M, Ndiaye J.L, Faye B, Greenwood B, Gaye O, Milligan P. Safety and efficacy of low-dose primaquine in the treatment of adult patients with Plasmodium falciparum malaria in Senegal : a randomized controlled trial. *Clin Infect Dis*. 2017 Jun 12. doi: 10.1093/cid/cix355.
- 9- Diallo A[†], Sié A[†], Sirima S[†], **Sylla K**[†], Ndiaye M, Bountogo M, et al. An epidemiological study to assess Plasmodium falciparum parasite prevalence and malaria control measures in Burkina Faso and Senegal. *Malar J* (**2017**) 16:63
- 10- Ndiaye M, **Sylla K**, Sow D, Tine R, Faye B, Ndiaye JL, et al. Potential Impact of Seasonal Malaria Chemoprevention on the Acquisition of Antibodies Against Glutamate-Rich Protein and Apical Membrane Antigen 1 in Children Living in Southern Senegal. *Am J Trop Med Hyg*. **2015** Oct 7;93(4):798-800.

- 11-Lakhe, N. A., Mbaye, K. D., **Sylla, K.**, & Ndour, C. T. (2020). HIV screening in men and women in Senegal: coverage and associated factors; analysis of the 2017 demographic and health survey. *BMC Infectious Diseases*, 20(1), 1.
- 12-Lakhe, N. A., **Sylla, K.**, Mbaye, K. D., Ndiaye, R., & Diallo, V. M. P. C. (2018). Bacteremia: Profile and Antibiotic Resistance at the Infectious and Tropical Diseases Clinic in Fann Hospital, Dakar, Senegal. *J Infect Dis Ther*, 6(348), 2332-0877.
- 13-Lakhe N.A, **Sylla K**, MBaye K.D, Dia N.M, Jaber C, Massaly A, Current Aspect of Severe Malaria at the Infectious and Tropical Disease Service in Fann (Dakar). *Archives of Infect Diseases and Therapy*, 2018, 2 :7
- 14-Tine R.C, Faye B, **Sylla K**, Ndiaye J.L, Ndiaye M, Sow D, Lo A.C, Abiola A, Ba M.C, and Gaye O. "Efficacy and tolerability of a new formulation of artesunate-mefloquine for the treatment of uncomplicated malaria in adult in Senegal: open randomized trial." *Malaria journal* 11, **2012**; 416.
- 15- Sow D, Ndiaye J.-L, **Sylla K**, Ba M.S, Tine R.C.K, Faye B, Pene M, Ndiaye M, Seck A, Lo A. C, Abiola A, Dieng Y, Gaye O. Evaluation of the efficacy and safety of three 2-drug combinations for the treatment of uncomplicated *Plasmodium falciparum* malaria in Senegal: artesunate-amodiaquine, dihydroartemisinin-piperaquine, and artemether- lumefantrine. *Médecine et Santé Tropicales* **2016**; 26 : 45-50
- 16-Lakhe NA, Mbaye KD, **Sylla K**, Dia ML, Badiane NMD, et al. Knowledge, Attitudes and Practices towards Ebola Virus Disease among Participants in an Ebola Vaccine Trial in Dakar, Senegal. *J Trop Dis* 2018, 6:4
- 17-Tine RC, Dieng T, **Sylla K**, Sow D, Lelo S, Ngom D, Ndour JD, Faye B, Gaye O. Low prevalence of soil transmitted helminths among children in rural areas in Senegal: A cross sectional survey. *Journal of Parasitology and Vector Biology*. 2018 Jan 31;10(1):19-25.
- 18-Sow D, Parola P, **Sylla K** et al. Performance of real-time PCR system for the detection of 20 gastrointestinal parasites in clinical samples from Senegal. *Am. J. Trop. Med. Hyg.*, 97(1), **2017**, pp. 173–182
- 19-Faye B, Ndiaye J.L, Tine R, **Sylla K**, Gueye A, Lô A.C, and Gaye O. A randomized trial of artesunate mefloquine versus artemether lumefantrine for the treatment of uncomplicated *Plasmodium falciparum* malaria in Senegalese children. *American Journal of Tropical Medicine and Hygiene* 82, 1; **2010**: 140.
- 20-Tine Roger CK, Ndour C.T, Faye B, Cairns M, **Sylla k**, Ndiaye M, et al. Feasibility, safety and effectiveness of combining home-based malaria management and seasonal malaria chemoprevention in children less than 10 years in Senegal: a cluster-randomised trial. *Transactions of The Royal Society of Tropical Medicine and Hygiene* **2014**, 103
- 21-Tine RC, Ndiaye P, Ndour CT, Faye B, Ndiaye JL, **Sylla K**, Ndiaye M, Cisse B, Sow D, Magnussen P, Bygbjerg IC, Gaye O. Acceptability by community health workers in Senegal of combining community case management of malaria and seasonal malaria chemoprevention. *Malaria Journal*, 2013, 30;12:467;

22-Faye B, Nath-Chowdhury M, Tine R.C, Ndiaye J.L, **Sylla K**, Camargo F.V, Martel N et al. Accuracy of HRP2 RDT (Malaria Antigen Pf H) compared to microscopy and PCR for malaria diagnosis in Senegal. *Pathogens and Global Health* **2013**, 107, 6: 335-335.

WORKING PAPERS

- Community-based implementation versus district-based implementations: keys findings for better estimation of Praziquantel during preventive chemotherapy campaign against Schistosomiasis in Benin
- Optimization of the use of praziquantel at community level for schistosomiasis control and elimination using recent survey data in Mali
- Community based analysis for better implementation of preventive chemotherapy campaign with Praziquantel in Senegal
- Evidence of the use of praziquantel at community level for sustainable control and elimination of schistosomiasis in Togo
- Schistosomiasis control and elimination in Guinea: Results from community data analysis
- Impact of Mass Preventive Chemotherapy on the distribution of Schistosomiasis and Soil Transmitted Helminth in Senegal: Results from surveys conducted from 2016 - 2018

MEMBERS OF TECHNICAL GROUP

- Global Schistosomiasis Alliance: Research working group
- Global Schistosomiasis Alliance: Monitoring and Evaluation working group
- WHO Diagnostic Technical Advisory Group (DTAG): Female Genital Schistosomiasis (FGS) sub-group

LANGUAGES

- French – Fluent, native speaker
- English – Fluent
- Wolof (Senegalese language) – Fluent