

REPUBLIQUE DU CAMEROUN
Paix – Travail – Patrie

MINISTERE DE LA RECHERCHE
SCIENTIFIQUE ET DE L'INNOVATION

INSTITUT DE RECHERCHES
MEDICALES ET D'ETUDES DES
PLANTES MEDICINALES



REPUBLIC OF CAMEROON
Peace – Work – Fatherland

MINISTRY OF SCIENTIFIC RESEARCH
AND INNOVATION

INSTITUTE OF MEDICAL
RESEARCH AND MEDICINAL
PLANT STUDIES

PUBLICATIONS SCIENTIFIQUES DES CHERCHEURS DE L'IMPM AU COURS DE L'ANNÉE - 2022 - 118 publications -

Programme VIH/SIDA et autres maladies virales (07)

1. **Oyono M.G., Kenmoe S.,** Abanda N.N., **Takuissu G.R., Ebogo B.J.T.,** Kenfack M.R., Kengne N.C., Mbaga D.S., Tchatchouang S., Kenfack-Zanguim J., Fogang R.L., Menkem E.Z., Ondigui J.L.N., **Kame N.G.I.,** Magoudjou P.J.N., Bowo N.A., Esemu S.N., Ndip L., (2022). Epidemiology of yellow fever virus in humans, arthropods, and non-human primates in sub-Saharan Africa: A systematic review and meta-analysis. PLOS Neglected Tropical Diseases. 16(7), e0010610, <https://doi.org/10.1371/journal.pntd.0010610>.
2. Mbaga S.D., **Kenmoe S., Bikoï N.J., Takuissu R.G., Amougou A.M.,** Okobalemba A.E., **Ebogo B.T.J.,** Bowo N.A., Oyono G.M., Magoudjou P.N.J., Kame N.I.G., Nka D.A., Feudjio F.A., Zemnou T.C., Velhima A.E., Ondigui N.L.J., Nayang M.A.R., Touangnou C.A.S., Takeu K.Y., (2022) Global prevalence of occult hepatitis C virus: A systematic review and meta-analysis. World Journal of Methodology. 12(3), 179.
3. **Takuissu G.R., Kenmoe S.,** Ndip L.J., **Ebogo-Belobo T.,** Kengne-Ndé C., Mbaga D.S., Bowo-Ngandji A., (2022). Hepatitis E Virus in Water Environments: A Systematic Review and Meta-analysis. Food and Environmental Virology. 1-13, <https://doi.org/10.1007/s12560-022-09530-3>
4. **Takuissu G.R., Kenmoe S., Amougou A.M.,** Atenguena O.E., Mbaga D.S., **Ebogo-Belobo J.T.,** Bowo-Ngandji A., Oyono M.G., Magoudjou P.J.N., **Kame N.G.I.,** Menkem E. Z., Selly Ngaloumo A.A., Banlock A.T.R., Feudjio A.F., Zemnou-Tepap C., **Meta D.D.,** Nyimbe M.G.L., Nyebe E.I., Yéngué, J.F., Ndip L., (2022). Global epidemiology of occult hepatitis B virus infections in blood donors. A systematic review and meta-analysis. PloS One. 17(8), e0272920, <https://doi.org/10.1371/journal.pone.0272920>
5. Kenfack-Momo R., **Kenmoe S., Takuissu G.R., Ebogo-Belobo J.T.,** Kengne N.C., Mbaga D.S., Tchatchouang S., Oyono M.G., Kenfack Z.J., Fogang R.L., Mikangue C.A.M., Menkem E.Z., Ondigui J.L.N., Kame-Ngasse G.I., Magoudjou P.J.N., T.F.J.B., Bowo N.A., Esemu S.N., Thiomo D.K., Njouom R., (2022). Epidemiology of hepatitis B virus and/or hepatitis C virus infections among people living with human immunodeficiency virus in Africa: A systematic review and meta-analysis. Plos One. 17(5), e0269250, <https://doi.org/10.1371/journal.pone.0269250>
6. Mbaga D.S., **Kenmoe S.,** Kengne-Ndé C., **Ebogo-Belobo J.T., Mahamat G., Foe E.J.R., Amougou A.M.,** Tchatchouang S., Nyebe I., Feudjio A.F., **Kame N.G.I.,** Magoudjou P.J.N., Fokou L.K.M., **Meta D.D., Maïdadi F.M.,** Touangnou C.S.A., Daha T.A.G., Selly N.A.A., Nayang M.R.A., Essama S.H.R., (2022). Hepatitis B, C and D virus infections and risk of *hepatocellular carcinoma* in Africa: A meta-analysis including sensitivity

analyses for studies comparable for confounders. Plos One. 17(1), e0262903, <https://doi.org/10.1371/journal.pone.0262903>

7. Fall A., **Kenmoe S.**, **Ebogo B.J.T.**, **Mbaga D.S.**, Bowo N.A., **Foe E.J.R.**, Tchatchouang S., **Atsama M.A.**, Yéngué J.F., Kenfack M.R., Feudjio A.F., Nka A.D., Mikangue C.A.M., Taya F.J.B., Magoudjou P.J.N., **Noura E.A.**, Zemnou T.C., **Meta D.D.**, **Maïdadi F.M.**, Njouom R., (2022). Global prevalence and case fatality rate of Enterovirus D68 infections, a systematic review and meta-analysis. Plos Neglected Tropical Diseases. 16(2), e0010073, <https://doi.org/10.1371/journal.pntd.0010073>

Programme paludisme (06)

1. Djuidje C.I.A., Masumbe N.P., Kamdem D.S., Moni N.E., Maloba F., **Ngum N.L.**, Yawat D.A.M., Fotsing K.P.R., Nyegue M.A., (2022). Role of Epstein-Barr virus reactivation in malaria severity. Fortune Journal of Archive of Clinical and Biomedical Research. 6 (3), doi:10.26502/acbr.50170270.
2. **Dongang N.R.R.**, **Bayengue S.S.B.**, Mogtomo M.L.K., Ngane A.R.N., Vineeta S., (2022). Anti-folate quintuple mutations in *Plasmodium falciparum* asymptomatic infections in Yaoundé, Cameroon. Parasitology International. 92, 102657.
3. Fokou P.V.T., Talia B.M.T., Dize D., Mbouna C.D.J., Ngansop C.A.N., **Keumoe R.**, **Tchokouaha L.R.Y.**, Tchouankeu J.C., Escudie F., Duffy J., Fekam F.B., (2022). Implementation and continued validation of the malaria *Plasmodium falciparum* lactate dehydrogenase-based colorimetric assay for use in antiplasmodial drug screening. Analytical Biochemistry. 648, 114669, <https://doi.org/10.1016/j.ab.2022.114669>.
4. **Ngum L.N.**, Ali M.I., Netongo M.P., Nji N.A., Chedjou K.P.J., Ngwafor R., Kom T.V.P., Ekollo M.A., Niba N.T.P., Mbu'u M.C., Fomboh T.C., Nana W.D., Mbacham F.W., (2022). Evolution of the Pfcrt and Pfmdr1 markers and revert of chloroquine sensitive *Plasmodium falciparum* in a seasonal malaria chemoprevention setting in Cameroon. Fortune Journal of Health Sciences. 5(2), 310-320.
5. Nji M.A., Mbange E.H.A., Selly N.A.A., Niba N.T.P., Chedjou K.J.P., **Ngum L.N.**, Monju T., Fokou K.M.L., Achonduh A.O., Ali M.I., Mbu'u M.C., Fumbah T.C., Kenmoe S., Bigoga J., Mbacham F.W., (2022). Genetic Diversity of *Plasmodium falciparum* before and after intensive and massive relocation of populations into Yaoundé, Cameroon. Fortune Journal of Health Sciences. 5(2), 334-351.
6. Tene F.B., Fotso T.Y.G., **Amvongo A.N.**, Ranson H., Wondji C.S., (2022). Temporal variation of high-level pyrethroid resistance in the major malaria vector *Anopheles gambiae* s.l. in Yaoundé, Cameroon, is mediated by target-site and metabolic resistance. Medical and Veterinary Entomology. 1-13, doi: <https://doi.org/10.1111/mve.12577>.

Programme maladies émergentes et ré-émergentes (43)

1. Tejiokem M.C., Sadeuh M.S., Tchatchueng M.J.B., Tagnouokam N.P.A., Ngondi G., Fokam J., Hamadou A., Nke G., Nwobegahay J., **Tongo M.**, Sander M. , Ndip L., Perraut R., Okomo A.M.C., Pefura Y.E.W., Etoundi M.G.A., Njouom R., Eyangoh S.,

- (2022). Clinical presentation of the Coronavirus disease 2019 at the time of testing and associated factors to pre-symptomatic cases in Cameroon. *IJID Regions*. 4, 33-41, doi: 10.1016/j.ijregi.2022.05.010.
2. **Djomsi D.M.**, Mba Djonzo F.A., Ndong Bass I., Champagne M., Lacroix A., Thaurignac G., Esteban A., De Nys H., Bourgarel M., Akoachere J.F., Delaporte E., **Ayouba A.**, Cappelle J., **Mpoudi N.E.**, Peeters M., (2022). Dynamics of Antibodies to Ebolaviruses in an Eidolon helvum Bat Colony in Cameroon. *Viruses*. 9, 14(3), 560, doi: 10.3390/v14030560.
 3. **Ebogo B.J.T.**, Sadeuh-Mba, S.A., Mveng-Sanding, G.M.A., Chavely, G.M., Groschup, M.H., Mbacham, W.F., Njouom, R., (2022). Serological evidence of the circulation of the Rift Valley fever virus in sheep and goats slaughtered in Yaoundé, Cameroon. *Veterinary Medicine and Science*. 8(5), 2114-2118, <https://doi.org/10.1002/vms3.848>
 4. Musaigwa F., Kamdem D.S., Mpotje T., Herbert D., Brombacher F., **Nono J.K.**, (2022). Schistosomiasis suppresses the efficacy of anti-viral vaccination by inducing plasma cell death in the bone marrow. *PLoS Pathogens*. 18(2), e1010327, <https://doi.org/10.1371/journal.ppat.1010327>.
 5. **Lum A.A.**, Berberich M., Herмосilla C., Taubert A., Dauschies A., Kamena F., (2022). Octaarginine Improves the Efficacy of nitazoxanide against *Cryptosporidium parvum*. *Pathogens*. 11(6), 653, <https://doi.org/10.3390/>.
 6. Ndongo A.F., Guichet E., Mimbé D.E., Ndié J., Pelloquin R., Varloteaux M., **Esemu L.**, Mpoudi E.M., Lamare N., Edoul G., Wouambo K.R., Djomsi M.D., **Tongo M.**, Tabala N.F., Dongmo K.R., Diallo K.S.M., Bouillin J., Thaurignac G., **Ayouba A.**, Peeters M., Delaporte E., **Mpoudi N.E.**, (2022). Rapid increase of community SARS-CoV-2 seroprevalence during second wave of COVID-19, Yaoundé, Cameroon. *Emerging Infectious Diseases*. 28(6), 1233-1236, doi: 10.3201/eid2806.212580.
 7. Raulino R., Thaurignac G., Keita A.K., Esteban A., Goumou S., Diallo R., Ndimbo-Kumugo S.P., Ndong B.I., Mbala K.P., Toure A., Delaporte E., Ahuka-Mundeke S., Muyembe T.J.J., **Mpoudi N.E.**, Peeters M., **Ayouba A.**, (2022). Seroprevalence of IgG antibodies against multiple arboviruses in bats from Cameroon, Guinea, and the Democratic Republic of Congo. *Vector Borne Zoonotic Diseases*. 22(4), 252-262, doi: 10.1089/vbz.2021.0076.
 8. Wiysonge C.S., Alobwede S.M., de Marie C., Katoto P., **Kidzeru E.B.**, **Lumngwena E.N.**, Cooper S., Goliath R., Jackson A., Shey M.S., (2022). COVID-19 vaccine acceptance and hesitancy among healthcare workers in South Africa. *Expert Review of Vaccines*. 21(4), 549-559, <https://doi.org/10.1080/14760584.2022.2023355>.
 9. Nana S.E., Ngo L.J.L., **Tchinda F.C.**, Bassong M.O.Y., (2022). Factors associated to diagnosis delay of patients with buruli ulcer in Akonolinga District Hospital-Cameroon. *International Research in Medical and Health Sciences*. 5(2), 12-28, <https://doi.org/10.36437/irmhs.2022.5.2.B>
 10. Abdullahi D., Afrose L., Muhammad R., **Mbah N.L.J.**, Sidra Y, Muhammad J.K., (2022). Circulating miR-548c-3p possesses good diagnostic potential for metabolic syndrome. *Genes & Diseases*. 2, 78, <https://doi.org/10.1016/j.gendis.2022.06.008>
 11. Akindeh M.N., Ekollo M.A.H., Selly A.A., Ngwa N.P.T., Kengne C.J.P., **Ngum L.N.**, Tsiambom M., Matchio F.K. L., Achonduh A.O., Mbuli A.I., Mbanwi M.C., Tah F.C.,

- Kenmoe S., Bigoga J., Fon Mbacham W. (2022). Genetic diversity of *Plasmodium falciparum* before and after intensive and massive relocation of populations into Yaoundé, Cameroon; Fortune Journal of Health Sciences. 5 (2): 334-351, DOI: 10.26502/fjhs.065
12. Alobwede S.M., Kidzeru E.B., Katoto P.D.M.C., **Lumngwena E.N.**, (2022). Influenza vaccination uptake and hesitancy among healthcare workers in early 2021 at the start of the COVID-19 vaccine rollout in Cape Town, South Africa. Vaccines. 10(8), 1176.
 13. Dandare A., Liaquat A., **Mbah N.L.J.**, Younis S., Khan M.J., (2022). Circulating miR-548c-3p possesses good diagnostic potential for metabolic syndrome. Genes & Diseases. IF: 7.243, <https://doi.org/10.1016/j.gendis.2022.06.008>
 14. Djuidje C.I.A., Masumbe N.P., Kamdem S.D., Ndedi E.M., Maloba F., **Ngum L.N.**, Yawat Djogang A.M., Fotsing K.P.R., Nyegue M.A., (2022). Role of epstein-barr virus reactivation in malaria severity. Fortune Journals, Archives Clinical and Biomedical Research. 6(3), 2572-9292, doi:10.26502/acbr.50170270
 15. **Dongang N.R.R.**, Hawadak J., Kojom Foko L.P., Kumar A., Chaudhry S., Arya A., Singh V. (2022). Malaria intermittent preventive treatment in pregnancy with sulfadoxine pyrimethamine (IPTp-SP): overview and challenges affecting the optimal drug uptake in pregnant women. Pathogens and Global Health. 116, 1-14, doi: 10.1080/20477724.2022.2128563.
 16. **Engowei M.C.**, **Lum A.A.**, **Ngwewondo A.**, **Kidzeru E.B.**, **Mountchissi C.**, **Mansour M.**, **Akwah L.**, **Ndze S.E.**, Assob J.C., Akoachere J.F., Kamena F., (2022). A comparative study of asymptomatic malaria in a forest rural and depleted forest urban setting during a low malaria transmission and COVID-19 pandemic period. BioMed Research International. 1-9, <https://www.hindawi.com/journals/bmri/2022/2545830/>
 17. Fall A., **Kenmoe I.S.**, **Ebogo B.J.T.**, Mbaga D.S., Bowo N.A., **Foe E.J.R.**, Tchatchouang S., **Amougou A.M.**, Yengue J.F., Kenfack M.R., Feudjio A.F., Nka A.D., Mbongue M. C.A., Taya F. J.B., Magoudjou P.J.N., **Efiengab A.N.**, Zennou T.C., **Meta D.D.**, **Maïdadi F.M.**, **Kame N.G.I.**, Nyebe I., Djukouo L.G., Gounmadje L.K., Ngongang D.T., Oyono M.G., (2022). Global prevalence and case fatality rate of Enterovirus D68 infections, a systematic review and meta-analysis. PLoS Neglected Tropical Diseases. 16 (2): e0010073, doi: 10.1371/journal.pntd.0010073.
 18. Farikou O., **Kame N.G.I.**, Simo G., Feudjio S.S., Banipé L., Njiokou F., Geiger A., (2022). Diversity of tsetse flies and trypanosome species circulating in the highly infested cattle rearing area of the Faro and Déo subdivision, Adamawa region, Cameroon. Veterinary Parasitology and Regional Studies Reports. 35, 100783, doi : 10.1016/j.vprsr.2022.100783.
 19. Gaké B., Bamia A., **Mansour M.**, Tapindji N.M., Mbakop C.D., **Ngonde E.M.C.**, **Adiogo D.**, Okomo A.M.C., (2022). Methicillin-Resistant *Staphylococcus aureus* (MRSA): A major concern in the Northern Cameroon. GSC Biological and Pharmaceutical Sciences. 20(02), 119-126.
 20. **Gwladys J.**, Priso P.E.F., Koro K.F., Mefo'o N.M.N., Foko K.P.L., Ziem O., **Embolo E.L.E.**, (2022). Epidemiological profile of gastrointestinal cancers in Douala, Littoral region of Cameroon: A Hospital based retrospective study, 2016-2020. Asian Journal of Biology. 14(3), 45-55.

21. Habib R., Rumman B., Awan S., **Ntepe J.M.**, Khan K., Sadia K., Kornelia T., Nurulain S. M., (2022). Acetylcholinesterase and association of ACHE 3' UTR SNP rs17228602 with psychiatric disorders: Kuwait Journal of Science. 49(2). <https://doi.org/10.48129/kjs.12465>.
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23. Kemba S., Nack J., **Oyono M.G.**, Hamit M.A., Bilong B.C.F., (2022). Intestinal helminthiasis among school children in the sahelian and sudanian zones of Chad: Prevalence and risk factors. International Journal of Tropical Disease & Health. 43(21): 15-26. Article no. IJTDH.92937.
24. Kengne C.J.P., Masumbe N.P., Mbangue E.A.H., Mbanwi M.C., **Ngum L.N.**, Tah F.C., Fon M.W., (2022). Relationship between CYP2C8*2 and *Pfmdr1* N86Y polymorphisms in patients with uncomplicated malaria in Yaounde, centre region of Cameroon. American Journal of Biomedical and Life Sciences. 10(3): 97-101, doi: 10.11648/j.ajbls.20221003.16
25. Kengne C.J.P., Netongo P.M., Eyébé S., Mbu'u Mbanwi C., Ekollo A., **Ngum L.N.**, Eyébé Nsa'amang C., Hamadjam A.A., Fon M.W., (2022). Characterization by PCR of *Escherichia coli* from beef and chicken used in restaurants in Yaoundé Cameroon. Journal of Biosciences and Medicines. 10(5), 54-63.
26. **Kenmoe S.**, Okobalembe E.A., **Takuissu G.R.**, **Ebogo-Belobo J.T.**, **Oyono M.G.**, Magoudjou P.J.N., **Kame N.G.I.**, Taya-Fokou J.B., Mikangue C.A.M., Kenfack M.R., Mbagu D.S., Bowo N.A., Kengne-Ndé C., Esemu S.N., Njouom R., Ndip L., (2022). Association between early viral lower respiratory tract infections and subsequent asthma development. Critical Care. 11(4), 17.
27. Kikie E.J., Christiane M.S., Libert E.E.E., Kleber K.P., Tanguieu O.V.A., Karyom D.A.N., Dieudonne A., (2022). Bacteriological profile and resistance of *Escherichia coli* to beta-lactam for patients consulted at Douala Laquintinie Hospital. Microbiology Research Journal International. 32(6), 43-50, <https://doi.org/10.9734/mrji/2022/v32i630395>
28. **Komguep N.J.**, **Kamdem S.D.**, Musaigwa F., Nnaji C.A., Brombacher F., (2022). Influence of schistosomiasis on host vaccine responses. Trends in Parasitology. 38 (1), 67-79, doi: 10.1016/j.pt.2021.07.009.
29. Lemouchele N.I., Mbougang S.P., Bell D.E., Ebongue O.C., Foko K.P.L. **Enyegue E.L.E.**, Tchuenta T., De G.R. , Nzeko, F.E. Ngane N.R.A., Mogtomo K.L.M., (2022). Breast Cancer among young women in Douala, Cameroon: Epidemiological, clinical, behavioural characteristics and risk factors. Journal of Cancer and Tumor International. 12(2), 23-38, JCTI.86646 ISSN: 2454-7360
30. Loteri O., Moguem S.A.F., Kojom F.L.P., Ndeme M.W.S., Medi S.C., **Embolo E.E.L.**, Koanga Mogtomo M.L. (2022). COVID-19 and Comorbidities in Douala, Cameroon International Journal of Tropical Disease & Health. 43(17), 21-38.
31. **Maboulou V.**, **Ngoutane A.**, **Molu J.**, **Mansour M.**, **Kountchou C.**, **Djoulde I.**, **Adamou V.**, **Wanda G.**, **Ahouga R.**, **Amougou M.**, **Esemo L.**, **Bouba A.**, **Eyong M.**, **Toukap M.**, **Akwah L.**, **Mbakop C.**, **Nkengazong L.**, **Essome N.C.M.**, (2022). Sick

- cell trait, knowledge, attitudes, practices and perceptions regarding sickle cell disease people living in Yaoundé, Cameroon. *International Research Journal of Medicine and Medical Sciences*. 10(3), 44-52.
32. **Mansour M.**, Riwom E.S., **Ngonde E.M.C.**, **Akwah L.**, Nudrat N., Gonsu K.H., Sattar S., Sundus J., (2022) High prevalence of Panton-Valentine leukocidin positive, multidrug resistant, Methicillin-resistant *Staphylococcus aureus* strains circulating among clinical setups in Adamawa and Far North regions of Cameroon. *PLoS ONE*. 17(7): e0265118, <https://doi.org/10.1371/journal.pone.0265118>
 33. Matchawe C., Machuka M.E., Kyallo M., **Bonny P.**, Nkeunen G., Njaci I., Esemu N.S., Githae D., Juma J., Nfor M.B., **Nsawir J.B.**, Galeotti M., Piasentier E., Ndip M.L., Pelle R., (2022). Detection of antimicrobial resistance, pathogenicity, and virulence potentials of non-typhoidal Salmonella isolates at the Yaounde abattoir using whole-genome sequencing technique. *Pathogens*. 11, 502, <https://doi.org/10.3390/pathogens11050502>.
 34. **Mbah C.E.**, Jasani A., Aaron K.J., Akoachere J.F., Tita A.T.N., Geisler W.M., Van Der Pol B., Dionne-Odom J., Ngeudia J.C.A., (2022). Association between *Chlamydia trachomatis*, *Neisseria gonorrhoea*, *Mycoplasma genitalium*, and *Trichomonas vaginalis* and Secondary Infertility in Cameroon: A case-control study. *PloS One*. e0263186, <https://doi.org/10.1371/journal.pone.0263186>.
 35. Medi S.C., Ayangma R.C., Voundi V.E., Ndoumba M.A., Ngogang P.M., **Eyoum B.B.**, **Embolo E.E.**, Essomba E.N., (2022). Evaluation of risk of transfusion-transmissible infections in blood donors at the laquintinie hospital in Douala, Cameroon *Journal of Advance Research in Medical & Health Science*. 8 (5), <https://doi.org/10.53555/nnmhs.v8i5.1289>.
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43. Xiong D., Zhou Y., Song L., Liu B., **Chelea M.**, Pelle R., Jiao X., Pan Z., (2022). Development of a duplex TaqMan Real-Time PCR for accurate identification and quantification of *Salmonella enteritidis* from laboratory samples and contaminated chicken eggs. Foods. 11, 742, doi.org/10.3390/foods11050742.

Programme plantes médicinales et médecine traditionnelle (34)

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