

Published Research by BUP-Affiliated Researchers

If you are affiliated with the Botswana-UPenn Partnership and have published research not listed here, please email Megan Doherty (megand@pennmedicine.upenn.edu) with a link so your work can be added to this list. Thank you!

2021: Updates ongoing

1. Hawkins L, Gertz AM, Badubi O, Sickboy O, Mussa A, Maotwe T, Whittaker PG, Schreiber CA, Ramagola-Masire D, Morrioni C. Integration of family planning services into health care for HIV-positive women in Botswana. *Int J Gynaecol Obstet.* 2021 Feb;152(2):208-214. doi: 10.1002/ijgo.13464. Epub 2020 Dec 23. PMID: 33145775.
2. Leeme TB, Mine M, Lechiile K, Mulenga F, Mosepele M, Mphoyakgosi T, Muthoga C, Ngidi J, Nkomo B, Ramaabya D, Tau M, Tenforde MW, Hayes R, Jarvis JN. Utility of CD4 count measurement in the era of universal antiretroviral therapy: an analysis of routine laboratory data in Botswana. *HIV Med.* 2021 Jan;22(1):1-10. doi: 10.1111/hiv.12951. Epub 2020 Sep 2. PMID: 32876378; PMCID: PMC7736557.
3. Mosojane KI, Giovanni D, Forrestel AK, Conic RZ, Kovarik C, Williams VL. Patterns of Skin Disease in the Context of a High Prevalence HIV Population in Botswana. *Dermatol Clin.* 2021 Jan;39(1):1-14. doi: 10.1016/j.det.2020.08.001. Epub 2020 Oct 31. PMID: 33228853.

2020: 57 Publications

1. Abdel-Wahab M, Grover S, Zubizarreta EH, Polo Rubio JA. Addressing the burden of cervical cancer through IAEA global brachytherapy initiatives. *Brachytherapy.* 2020 Nov-Dec;19(6):850-856. doi: 10.1016/j.brachy.2020.07.015. Epub 2020 Sep 11. PMID: 32928684.
2. Andersen T, Jeremiah M, Thamane K, Littman-Quinn R, Dikai Z, Kovarik C, Ndlovu K. Implementing a School Vision Screening Program in Botswana Using Smartphone Technology. *Telemed J E Health.* 2020 Feb;26(2):255-258. doi: 10.1089/tmj.2018.0213. Epub 2019 Mar 14. PMID: 30794053.
3. Baik Y, Modongo C, Moonan PK, Click ES, Tobias JL, Boyd R, Finlay A, Oeltmann JE, Shin SS, Zetola NM. Possible Transmission Mechanisms of Mixed Mycobacterium tuberculosis Infection in High HIV Prevalence Country, Botswana. *Emerg Infect Dis.* 2020 May;26(5):953-960. doi: 10.3201/eid2605.191638. PMID: 32310078; PMCID: PMC7181944.
4. Bango ZA, Tawe L, Muthoga CW, Paganotti GM. Past and current biological factors affecting malaria in the low transmission setting of Botswana: A review. *Infect Genet Evol.* 2020 Nov;85:104458. doi: 10.1016/j.meegid.2020.104458. Epub 2020 Jul 12. PMID: 32668367; PMCID: PMC7354381.
5. Bishop IJ, Gertz AM, Simon B, Tawe L, Lechiile K, Liu S, Teodoro N, Mussa A, Avalos A, Malima S, Maotwe T, Mokganya L, Westhoff CL, Morrioni C. Etonogestrel concentrations among contraceptive implant users in Botswana using and not using dolutegravir-based antiretroviral therapy. *Contraception.* 2020 Sep;102(3):174-179. doi: 10.1016/j.contraception.2020.04.019. Epub 2020 May 7. PMID: 32387328.
6. Click ES, Finlay A, Oeltmann JE, Basotli J, Modongo C, Boyd R, Wen XJ, Shepard J, Moonan PK, Zetola N. Phylogenetic diversity of Mycobacterium tuberculosis in two geographically distinct

locations in Botswana - The Kopanyo Study. *Infect Genet Evol.* 2020 Feb 3:104232. doi: 10.1016/j.meegid.2020.104232. [Epub ahead of print] PubMed PMID: 32028055.

7. Congdon M, Arscott-Mills T, Kelly MS. Reply to authors. *Clin Infect Dis.* 2020 Oct 26:ciaa1628. doi: 10.1093/cid/ciaa1628. Epub ahead of print. PMID: 33103198.
8. Congdon M, Hong H, Young RR, Cunningham CK, Enane LA, Arscott-Mills T, Banda FM, Chise M, Motlhatlhedhi K, Feemster K, Patel SM, Boiditswe S, Leburu T, Shah SS, Steenhoff AP, Kelly MS. Effect of Haemophilus influenzae type b and 13-valent pneumococcal conjugate vaccines on childhood pneumonia hospitalizations and deaths in Botswana. *Clin Infect Dis.* 2020 Jul 8:ciaa919. doi: 10.1093/cid/ciaa919. Epub ahead of print. PMID: 32634831.
9. Enane LA, Eby J, Arscott-Mills T, Argabright S, Caiphus C, Kgwaadira B, Steenhoff AP, Lowenthal ED. TB and TB-HIV care for adolescents and young adults. *Int J Tuberc Lung Dis.* 2020 Feb 1;24(2):240-249. doi: 10.5588/ijtld.19.0416. PMID: 32127110; PMCID: PMC7307717.
10. Fawole OA, Kelly MS, Steenhoff AP, Feemster KA, Crotty EJ, Rattan MS, David T, Mazhani T, Shah SS, Andronikou S, Arscott-Mills T. Interpretation of pediatric chest radiographs by non-radiologist clinicians in Botswana using World Health Organization criteria for endpoint pneumonia. *Pediatr Radiol.* 2020 Jun;50(7):913-922. doi: 10.1007/s00247-020-04625-0. Epub 2020 Jun 10. PMID: 32524176; PMCID: PMC7539136.
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13. Grant JS, Chico RM, Lee AC, Low N, Medina-Marino A, Molina RL, Morrioni C, Ramogola-Masire D, Stafylis C, Tang W, Vallely AJ, Wynn A, Yeganeh N, Klausner JD. Sexually Transmitted Infections in Pregnancy: A Narrative Review of the Global Research Gaps, Challenges, and Opportunities. *Sex Transm Dis.* 2020 Dec;47(12):779-789. doi: 10.1097/OLQ.0000000000001258. PMID: 32773611; PMCID: PMC7668326.
14. Grover S, Mehta P, Wang Q, Bhatia R, Bvochora-Nsingo M, Davey S, Iyengar M, Shah S, Shin SS, Zetola NM. Association Between CD4 Count and Chemoradiation Therapy Outcomes Among Cervical Cancer Patients With HIV. *J Acquir Immune Defic Syndr.* 2020 Oct 1;85(2):201-208. doi: 10.1097/QAI.0000000000002420. PMID: 32568769; PMCID: PMC7492431.
15. Grover S, Shah S, Bhatia R, Urusaro S, Monare B, Ralefala T, Seiphethheng A, Singh SP, Dhaliwal G. Development and Usability of a Smartphone Application for Tracking Oncology Patients in Gaborone, Botswana. *Methods Inf Med.* 2020 Feb;59(1):31-40. doi: 10.1055/s-0040-1713129. Epub 2020 Aug 24. PMID: 32838443.
16. Gutin SA, Harper GW, Bitsang C, Moshashane N, Ramogola-Masire D, Harries J, Morrioni C. Perspectives about childbearing and pregnancy planning amongst people living with HIV in Gaborone, Botswana. *Cult Health Sex.* 2020 Sep;22(9):1063-1079. doi: 10.1080/13691058.2019.1650202. Epub 2019 Sep 3. PMID: 31478784; PMCID: PMC7182082.
17. Gutin SA, Harper GW, Moshashane N, Ramontshonyana K, Mompe A, Fleming PJ, Harries J, Ramogola-Masire D, Morrioni C. "I did not know about all these": Perceptions regarding safer conception methods by women living with HIV in Gaborone, Botswana. *PLoS One.* 2020 Dec 1;15(12):e0242992. doi: 10.1371/journal.pone.0242992. PMID: 33259505; PMCID: PMC7707558.
18. Hurt WJ, Tenforde MW, Molefi M, Mitchell HK, Milton T, Azama MS, Goercke I, Mulenga F, Tlhako N, Tsholo K, Srivastava T, Leeme TB, Simoonga G, Muthoga C, Lechiile K, Mine M, Jarvis JN.

Prevalence and Sequelae of Cryptococcal Antigenemia in Antiretroviral Therapy-experienced Populations: An Evaluation of Reflex Cryptococcal Antigen Screening in Botswana. *Clin Infect Dis*. 2020 Apr 1;ciaa356. doi: 10.1093/cid/ciaa356. Epub ahead of print. PMID: 32236414.

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23. Kgorobutswe TK, Ramatlho P, Reeder S, Makate N, Paganotti GM. Distribution of Anopheles mosquito species, their vectorial role and profiling of knock-down resistance mutations in Botswana. *Parasitol Res*. 2020 Feb 8. doi: 10.1007/s00436-020-06614-6. [Epub ahead of print] PubMed PMID: 32036440.
24. Kurenzvi L, Sebunya TK, Coetzee T, Paganotti GM, Teye MV. Prevalence of *Cryptosporidium parvum*, *Giardia intestinalis* and molecular characterization of group A rotavirus associated with diarrhea in children below five years old in Gaborone, Botswana. *Pan Afr Med J*. 2020 Oct 14;37:159. doi: 10.11604/pamj.2020.37.159.25392. PMID: 33425192; PMCID: PMC7757325.
25. Lebelonyane R, Bachanas P, Block L, Ussery F, Abrams W, Roland M, Theu J, Kapanda M, Matambo S, Lockman S, Gaolathe T, Makhema J, Moore J, Jarvis JN. Rapid antiretroviral therapy initiation in the Botswana Combination Prevention Project: a quasi-experimental before and after study. *Lancet HIV*. 2020 Aug;7(8):e545-e553. doi: 10.1016/S2352-3018(20)30187-9. PMID: 32763218.
26. Lebelonyane R, Mills LA, Mogorosi C, Ussery F, Marukutira T, Theu J, Kapanda M, Matambo S, Block L, Raizes E, Makhema J, Lockman S, Bachanas P, Moore J, Jarvis JN. Advanced HIV disease in the Botswana combination prevention project: prevalence, risk factors, and outcomes. *AIDS*. 2020 Dec 1;34(15):2223-2230. doi: 10.1097/QAD.0000000000002627. PMID: 32694412.
27. Lewis PJ, Amankwaa-Frempong E, Makwani H, Nsingo M, Addison ECDK, Acquah GF, Yusufu S, Makufa R, Edusa CE, Dharsee NJ, Grover S, Court LE, Palta JR, Kapoor R, Aggarwal A. Radiotherapy Planning and Peer Review in Sub-Saharan Africa: A Needs Assessment and Feasibility Study of Cloud-Based Technology to Enable Remote Peer Review and Training. *JCO Glob Oncol*. 2021 Jan;7:10-16. doi: 10.1200/GO.20.00188. PMID: 33405955.
28. Lowenthal ED, Matshaba M. Rapid initiation of dolutegravir for adults in Botswana. *Lancet HIV*. 2020 Aug;7(8):e523-e524. doi: 10.1016/S2352-3018(20)30207-1. PMID: 32763211.
29. Mante A, Hawrot K, Bvochora-Nsingo M, Chiyapo S, Balang D, Barg F, Baffic C, Monare B, Vapiwala N, Ralefala T, Metz J, Swisher-McClure S, Grover S. Radiation Oncology Rotation in

- Botswana: Resident Experience and Career Interests. *Int J Radiat Oncol Biol Phys*. 2020 Jul 15;107(4):850-852. doi: 10.1016/j.ijrobp.2020.03.017. Epub 2020 May 5. PMID: 32386829.
30. Mathieu I, Wallis K, Japa I, Cordero R, Deverlis A, Steenhoff AP, Lowenthal E. Caregiver Strengths, Attitudes, and Concerns About Reading and Child Development in the Dominican Republic. *Glob Pediatr Health*. 2020 Jul 22;7:2333794X20942661. doi: 10.1177/2333794X20942661. PMID: 32743027; PMCID: PMC7376378.
 31. McGinnis GJ, Ning MS, Bvochora-Nsingo M, Chiyapo S, Balang D, Ralefala T, Lin A, Zetola NM, Grover S. Management of Head and Neck Cancers With or Without Comorbid HIV Infection in Botswana. *Laryngoscope*. 2020 Oct 24. doi: 10.1002/lary.29206. Epub ahead of print. PMID: 33098322.
 32. Mensi M, Baiocco R, Otukile-Mongwaketse M, Paganotti GM, Kubina RM. Improving the reading skills of children with neurodevelopmental disabilities: Preliminary study from Botswana. *J Intellect Disabil*. 2020 Nov 12:1744629520968968. doi: 10.1177/1744629520968968. Epub ahead of print. PMID: 33176550.
 33. Molebatsi K, Wang Q, Dima M, Ho-Foster A, Modongo C, Zetola N, Shin SS. Depression and delayed tuberculosis treatment initiation among newly diagnosed patients in Botswana. *Glob Public Health*. 2020 Sep 29:1-11. doi: 10.1080/17441692.2020.1826049. Epub ahead of print. PMID: 32991275.
 34. Moonan PK, Zetola NM, Tobias JL, Basotli J, Boyd R, Click ES, Dima M, Fane O, Finlay AM, Ogopotse M, Wen XJ, Modongo C, Oeltmann JE. A Neighbor-Based Approach to Identify Tuberculosis Exposure, the Kopanyo Study. *Emerg Infect Dis*. 2020 May;26(5):1010-1013. doi: 10.3201/eid2605.191568. PMID: 32310058; PMCID: PMC7181937.
 35. Morroni C, Glasier A. Increasing the use of effective postpartum contraception: urgent and possible. *Lancet Glob Health*. 2020 Mar;8(3):e316-e317. doi: 10.1016/S2214-109X(20)30045-0. PMID: 32087158.
 36. Mupfumi L, Mpande CAM, Reid T, Moyo S, Shin SS, Zetola N, Mogashoa T, Musonda RM, Kasvosve I, Scriba TJ, Nemes E, Gaseitsiwe S. Immune Phenotype and Functionality of Mtb-Specific T-Cells in HIV/TB Co-Infected Patients on Antiretroviral Treatment. *Pathogens*. 2020 Mar 2;9(3):180. doi: 10.3390/pathogens9030180. PMID: 32131556; PMCID: PMC7157681.
 37. Okatch H, Morales K, Rogers R, Chapman J, Marukutira T, Tshume O, Matshaba M, Gross R, Lowenthal ED. Trends in HIV Treatment Adherence Before and After HIV Status Disclosure to Adolescents in Botswana. *J Adolesc Health*. 2020 Oct;67(4):502-508. doi: 10.1016/j.jadohealth.2020.02.023. Epub 2020 Apr 25. PMID: 32340848.
 38. Painter H, Erlinger A, Simon B, Morroni C, Ramogola-Masire D, Lockett R. Impact of cervicitis on performance of cervical cancer screening using HRHPV testing and visual evaluation in women living with HIV in Botswana. *Int J Gynaecol Obstet*. 2020 Oct;151(1):144-146. doi: 10.1002/ijgo.13235. Epub 2020 Jun 16. PMID: 32449207.
 39. Patel SM, Jallow S, Boiditswe S, Madhi SA, Feemster KA, Steenhoff AP, Arscott-Mills T, Muthoga C, Ajibola G, Shapiro R, Shah SS, Cunningham CK, Kelly MS. Placental Transfer of Respiratory Syncytial Virus Antibody Among HIV-Exposed, Uninfected Infants. *J Pediatric Infect Dis Soc*. 2020 Jul 13;9(3):349-356. doi: 10.1093/jpids/piz056. PMID: 31549157; PMCID: PMC7358043.
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 41. Poku OB, Ho-Foster AR, Entaile P, Misra S, Mehta H, Rampa S, Goodman M, Arscott-Mills T, Eschliman E, Jackson V, Melese T, Becker TD, Eisenberg M, Link B, Go V, Opondo PR, Blank MB, Yang LH. 'Mothers moving towards empowerment' intervention to reduce stigma and improve treatment adherence in pregnant women living with HIV in Botswana: study protocol for a

pragmatic clinical trial. *Trials*. 2020 Oct 7;21(1):832. doi: 10.1186/s13063-020-04676-6. PMID: 33028387; PMCID: PMC7542742.

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44. Shin SS, Modongo C, Zetola NM. Twice-Daily vs. Once-Daily Dolutegravir in Patients With Human Immunodeficiency Virus-Tuberculosis Coinfection Receiving Rifampicin-Based Tuberculosis Therapy. *Clin Infect Dis*. 2020 Jun 24;71(1):242-243. doi: 10.1093/cid/ciz917. PMID: 32436563; PMCID: PMC7312218.
45. Sims TT, Biegert GWG, Ramogola-Masire D, Ngoni K, Solley T, Ning MS, El Alam MB, Mezzari M, Petrosino J, Zetola NM, Schmeler KM, Colbert LE, Klopp AH, Grover S. Tumor microbial diversity and compositional differences among women in Botswana with high-grade cervical dysplasia and cervical cancer. *Int J Gynecol Cancer*. 2020 Aug;30(8):1151-1156. doi: 10.1136/ijgc-2020-001547. Epub 2020 Jul 16. PMID: 32675252.
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47. Tenforde MW, Boyer-Chammard T, Muthoga C, Tawe L, Milton T, Rulaganyang I, Lechiile K, Rukasha I, Leeme TB, Govender NP, Ngidi J, Mine M, Molloy SF, Harrison TS, Lortholary O, Jarvis JN. Diagnostic Accuracy of the Biosynex CryptoPS Cryptococcal Antigen Semiquantitative Lateral Flow Assay in Patients with Advanced HIV Disease. *J Clin Microbiol*. 2020 Dec 17;59(1):e02307-20. doi: 10.1128/JCM.02307-20. PMID: 33087436; PMCID: PMC7771453.
48. Tenforde MW, Milton T, Rulaganyang I, Muthoga C, Tawe L, Chiller T, Greene G, Jordan A, Williams CG, Owen L, Leeme TB, Boose A, Ngidi J, Mine M, Jarvis JN. Outcomes of reflex cryptococcal antigen (CrAg) screening in HIV-positive patients with CD4 counts of 100-200 cells/ μ L in Botswana. *Clin Infect Dis*. 2020 Jun 30:ciaa899. doi: 10.1093/cid/ciaa899. Epub ahead of print. PMID: 32604411.
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51. Tsimba BM, Moedi P, Maunge J, Machangane K, Kgogwane M, Mudojwa T, Bastian J, Bilker W, Ashare R, Schnoll R, Gross R. Feasibility of implementing a novel behavioural smoking cessation intervention amongst human immunodeficiency virus-infected smokers in a resource-limited setting: A single-arm pilot trial. *South Afr J HIV Med*. 2020 Jun 24;21(1):1075. doi: 10.4102/sajhivmed.v21i1.1075. PMID: 32670627; PMCID: PMC7343953.
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55. Wroe LM, Ige TA, Asogwa OC, Aruah SC, Grover S, Makufa R, Fitz-Gibbon M, Sheehy SL. Comparative Analysis of Radiotherapy Linear Accelerator Downtime and Failure Modes in the UK, Nigeria and Botswana. *Clin Oncol (R Coll Radiol)*. 2020 Apr;32(4):e1111-e1118. doi: 10.1016/j.clon.2019.10.010. Epub 2019 Nov 19. PMID: 31757747.
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2019: 31 Publications

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2. Abu-Raya B, Goldfarb DM, Smieja M, Luinstra K, Richard-Greenblatt M, Steenhoff AP, Feemster KA, Arscott-Mills T, Cunningham CK, Shah SS, Patel MZ, Kelly MS, Sadarangani M. The prevalence and clinical characteristics of pertussis-associated pneumonia among infants in Botswana. *BMC Pediatr*. 2019 Nov 16;19(1):444. doi: 10.1186/s12887-019-1820-0. PubMed PMID: 31733643; PubMed Central PMCID: PMC6858628.
3. Arscott-Mills T, Ter Haar B, Firth J, Batra M, Githanga D, Moyer VA; Global Health Task Force of the American Board of Pediatrics. Maintenance of Certification: You Can Make Your Global Health Work Count. *Pediatrics*. 2019 Jun;143(6). pii: e20183887. doi: 10.1542/peds.2018-3887. Epub 2019 May 9. Review. PubMed PMID: 31072829.
4. Baik Y, Fane O, Wang Q, Modongo C, Caiphus C, Grover S, Zetola NM, Shin SS. Undetected tuberculosis at enrollment and after hospitalization in medical and oncology wards in Botswana. *PLoS One*. 2019 Jul 11;14(7):e0219678. doi: 10.1371/journal.pone.0219678. eCollection 2019. PubMed PMID: 31295315; PubMed Central PMCID: PMC6623960.
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