

DAFTAR PUSTAKA

- Abebe, M. & Marga, N. 2021. Human Immunodeficiency Virus and Syphilis Among Blood Donors at Western Oromia, Ethiopia. *J Blood Med*, 12, 671-677.
- Ablashi, D. V., Chatlynne, L. G., Whitman, J. E., Jr. & Cesarman, E. 2002. Spectrum of Kaposi's sarcoma-associated herpesvirus, or human herpesvirus 8, diseases. *Clin Microbiol Rev*, 15, 439-64.
- Acacio, S., Nhampossa, T., Quinto, L., Vubil, D., Garrine, M., Bassat, Q., Farag, T., Panchalingam, S., Nataro, J. P., Kotloff, K. L., Levine, M. M., Tennant, S. M., Alonso, P. L. & Mandomando, I. 2021. Rotavirus disease burden pre-vaccine introduction in young children in Rural Southern Mozambique, an area of high HIV prevalence. *PLoS One*, 16, e0249714.
- Adawiyah, R., Imran, D., Rozaliyani, A., Estiasari, R., Maharani, K., Natriana, T., Syam, R., Tugiran, M., Boekhout, T., Theelen, B. & Wahyuningsih, R. 2021. Clinical and mycological characteristics of AIDS patients with meningeal cryptococcosis in Jakarta, Indonesia R. Adawiyah, 2021. *Int J Infect Dis*, 101, 384-402.
- Adler, M. W. 2001. *ABC of AIDS*, London, BMJ.
- Agizew, T., Basotli, J., Alexander, H., Boyd, R., Letsibogo, G., Auld, A., Nyirenda, S., Tedla, Z., Mathoma, A., Mathebula, U., Pals, S., Date, A. & Finlay, A. 2017. Higher-than-expected prevalence of non-tuberculous mycobacteria in HIV setting in Botswana: Implications for diagnostic algorithms using Xpert MTB/RIF assay. *PLoS One*, 12, e0189981.
- Agudelo-Hernandez, A., Chen, Y., Bullotta, A., Buchanan, W. G., Klamar-Blain, C. R., Borowski, L., Riddler, S. A., Rinaldo, C. R. & Macatangay, B. J. C. 2017. Subclinical herpesvirus shedding among HIV-1-infected men on antiretroviral therapy. *AIDS*, 31, 2085-2094.
- Ahmed, M., Merga, H. & Jarso, H. 2019. Predictors of virological treatment failure among adult HIV patients on first-line antiretroviral therapy in Woldia and Dessie hospitals, Northeast Ethiopia: a case-control study. *BMC Infect Dis*, 19, 305.
- Ahn, J. Y., Boettiger, D., Kiertiburanakul, S., Merati, T. P., Huy, B. V., Wong, W. W., Ditangco, R., Lee, M. P., Oka, S., Durier, N., Choi, J. Y. & Treat Asia, H. I. V. O. D. 2016. Incidence of syphilis seroconversion among HIV-infected persons in Asia: results from the TREAT Asia HIV Observational Database. *J Int AIDS Soc*, 19, 20965.
- Al-Sheikh, H., Al-Sunaid, M. & Alrajhi, A. A. 2013. HIV-associated nephropathy in Saudi Arabia. *Ann Saudi Med*, 33, 347-50.
- al-Tawfiq, J. A. & Wools, K. K. 1998. Disseminated sporotrichosis and *Sporothrix schenckii* fungemia as the initial presentation of human immunodeficiency virus infection. *Clin Infect Dis*, 26, 1403-6.
- Albasanz-Puig, A., Suanzes, P., Esperalba, J., Fernandez, C., Sellares-Nadal, J., Torrella, A., Planas, B., Segura, A., Burgos, J., Ribera, E., Canas-Ruano, E., Garcia, J. N., Navarro, J., Curran, A., Len, O. & Falco, V. 2021. Low frequency of cytomegalovirus (CMV) disease despite high prevalence of CMV viraemia in patients with advanced HIV infection: a clinical and immunological 48-week follow-up study. *HIV Med*, 22, 682-689.
- Alencar, R. A. & Ciosak, S. I. 2016. Aids in the elderly: reasons that lead to late diagnosis. *Rev Bras Enferm*, 69, 1140-1146.
- Alessi, E., Berti, E., Cusini, M., Zerboni, R., Cavicchini, S., Tomasini, D. & Muratori, S. 1990. Oral hairy leukoplakia. *J Am Acad Dermatol*, 22, 79-86.
- Algarin, A. B., Sheehan, D. M., Varas-Diaz, N., Fennie, K., Zhou, Z., Spencer, E. C., Cook, C. L., Cook, R. L. & Ibanez, G. E. 2021. Enacted HIV-Related Stigma's Association with Anxiety & Depression Among People Living with HIV (PLWH) in Florida. *AIDS Behav*, 25, 93-103.

- Alizade, H., Sharifi, H., Naderi, Z., Ghanbarpour, R., Bamorovat, M. & Aflatoonian, M. R. 2017. High Frequency of Diarrheagenic *Escherichia coli* in HIV-Infected Patients and Patients with Thalassemia in Kerman, Iran. *J Int Assoc Provid AIDS Care*, 16, 353-358.
- Almazayad, A., Alabdullaaly, L., Noonan, V. & Woo, S. B. 2021. Oral hairy leukoplakia: a series of 45 cases in immunocompetent patients. *Oral Surg Oral Med Oral Pathol Oral Radiol*, 132, 210-216.
- Alonso Arias, R., Moro-Garcia, M. A., Echeverria, A., Solano-Jaurrieta, J. J., Suarez-Garcia, F. M. & Lopez-Larrea, C. 2013. Intensity of the humoral response to cytomegalovirus is associated with the phenotypic and functional status of the immune system. *J Virol*, 87, 4486-95.
- Alrubayyi, A., Gea-Mallorqui, E., Touizer, E., Hameiri-Bowen, D., Kopycinski, J., Charlton, B., Fisher-Pearson, N., Muir, L., Rosa, A., Roustian, C., Earl, C., Cherepanov, P., Pellegrino, P., Waters, L., Burns, F., Kinloch, S., Dong, T., Dorrell, L., Rowland-Jones, S., McCoy, L. E. & Peppia, D. 2021. Characterization of humoral and SARS-CoV-2 specific T cell responses in people living with HIV. *Res Sq*.
- Andrey, D. O., Cohen, P., Meyer, B., Torriani, G., Yerly, S., Mazza, L., Calame, A., Arm-Vernez, I., Guessous, I., Stringhini, S., Roux-Lombard, P., Fontao, L., Agoritsas, T., Stirnemann, J., Reny, J. L., Siegrist, C. A., Eckerle, I., Kaiser, L. & Vuilleumier, N. 2020. Head-to-Head Accuracy Comparison of Three Commercial COVID-19 IgM/IgG Serology Rapid Tests. *J Clin Med*, 9.
- Anggorowati, N., Yano, Y., Heriyanto, D. S., Rinonce, H. T., Utsumi, T., Mulya, D. P., Subronto, Y. W. & Hayashi, Y. 2012. Clinical and virological characteristics of hepatitis B or C virus co-infection with HIV in Indonesian patients. *J Med Virol*, 84, 857-65.
- Anggorowati, N., Yano, Y., Subronto, Y. W., Utsumi, T., Heriyanto, D. S., Mulya, D. P., Rinonce, H. T., Widasari, D. I., Lusida, M. I., Soetjipto & Hayashi, Y. 2013. GB virus C infection in Indonesian HIV-positive patients. *Microbiol Immunol*, 57, 298-308.
- Anglemyer, A., Haber, N., Noiman, A., Rutherford, G., Ganesan, A., Blaylock, J., Okulicz, J., Maves, R. C., Lalani, T., Schofield, C., Mancuso, J., Agan, B. K. & Infectious Disease Clinical Research Program, H. I. V. W. G. 2020. HIV Care Continuum and Meeting 90-90-90 Targets: Cascade of Care Analyses of a U.S. Military Cohort. *Mil Med*, 185, e1147-e1154.
- Anindita, S., Subronto, Y. W. & Nirwati, H. 2020. Risk Factors Related to gastrointestinal Bacteria in HIV Patients at Dr. Sardjito Referral Hospital, Yogyakarta. . Yogyakarta: Fakultas Kedokteran, Universitas Gadjah Mada.
- Antoniskis, D., Larsen, R. A., Akil, B., Rarick, M. U. & Leedom, J. M. 1990. Seronegative disseminated coccidioidomycosis in patients with HIV infection. *AIDS*, 4, 691-3.
- Apgar, B. 1997. Asymptomatic shedding of HSV in patients with AIDS. *Am Fam Physician*, 56, 910.
- Arapovic, J., Rajic, B., Pati, S., Brizic, I., Azinovic, I., Susak, B., Ostojic, M., Tutis, B., Raguz, A. B., Tomic, V., Jonjic, S. & Boppana, S. 2020. Cytomegalovirus Seroprevalence and Birth Prevalence of Congenital CMV Infection in Bosnia and Herzegovina: A Single-Center Experience. *Pediatr Infect Dis J*, 39, 140-144.
- Arpagaus, A., Franzeck, F. C., Sikalengo, G., Ndege, R., Mnzava, D., Rohacek, M., Hella, J., Reither, K., Battegay, M., Glass, T. R., Paris, D. H., Bani, F., Rajab, O. N., Weisser, M. & Group, K. S. 2020. Extrapulmonary tuberculosis in HIV-infected patients in rural Tanzania: The prospective Kilombero and Ulanga antiretroviral cohort. *PLoS One*, 15, e0229875.
- Arrington-Sanders, R., Hailey-Fair, K., Wirtz, A. L., Morgan, A., Brooks, D., Castillo, M., Trexler, C., Kwait, J., Dowshen, N., Galai, N., Beyrer, C. & Celentano, D. 2020. Role of Structural Marginalization, HIV Stigma, and Mistrust on HIV Prevention and Treatment Among Young Black Latinx Men Who Have Sex with Men and Transgender Women: Perspectives from Youth Service Providers. *AIDS Patient Care STDS*, 34, 7-15.
- Ayano, G., Solomon, M. & Abraha, M. 2018. A systematic review and meta-analysis of epidemiology of depression in people living with HIV in east Africa. *BMC Psychiatry*, 18, 254.

- Azeez, A., Ndege, J. & Mutambayi, R. 2018. Associated factors with unsuccessful tuberculosis treatment outcomes among tuberculosis/HIV coinfecting patients with drug-resistant tuberculosis. *Int J Mycobacteriol*, 7, 347-354.
- Azovtseva, O. V., Viktorova, E. A., Bakulina, E. G., Shelomov, A. S. & Trofimova, T. N. 2020. Cerebral toxoplasmosis in HIV-infected patients over 2015-2018 (a case study of Russia). *Epidemiol Infect*, 148, e142.
- Bai, S., Maykel, J. A. & Yang, M. X. 2020. Inflammatory pseudotumor associated with HSV infection of rectal vascular endothelium in a patient with HIV: a case report and literature review. *BMC Infect Dis*, 20, 234.
- Baikunje, N., Behera, D., Rajwanshi, A., Sharma, M., Sharma, A. & Sharma, K. 2019. Comparative evaluation of loop-mediated isothermal amplification (LAMP) assay, GeneXpert MTB/Rif and multiplex PCR for the diagnosis of tubercular lymphadenitis in HIV-infected patients of North India. *Mol Cell Probes*, 48, 101459.
- Banatvala, J. E. & Brown, D. W. 2004. Rubella. *Lancet*, 363, 1127-37.
- Barata, P. C., Gucciardi, E., Ahmad, F. & Stewart, D. E. 2006. Cross-cultural perspectives on research participation and informed consent. *Soc Sci Med*, 62, 479-90.
- Barnhart, D. A., Harling, G., Muya, A., Ortblad, K. F., Mashasi, I., Dambach, P., Ulena, N., Mboggo, E., Oldenburg, C. E., Barnighausen, T. W. & Spiegelman, D. 2019. Structural, interpersonal, psychosocial, and behavioral risk factors for HIV acquisition among female bar workers in Dar es Salaam, Tanzania. *AIDS Care*, 31, 1096-1105.
- Barnighausen, T., Tanser, F., Malaza, A., Herbst, K. & Newell, M. L. 2012. HIV status and participation in HIV surveillance in the era of antiretroviral treatment: a study of linked population-based and clinical data in rural South Africa. *Trop Med Int Health*, 17, e103-10.
- Barr, D. A., Lewis, J. M., Feasey, N., Schutz, C., Kerkhoff, A. D., Jacob, S. T., Andrews, B., Kelly, P., Lakhi, S., Muchemwa, L., Bacha, H. A., Hadad, D. J., Bedell, R., van Lettow, M., Zachariah, R., Crump, J. A., Alland, D., Corbett, E. L., Gopinath, K., Singh, S., Griesel, R., Maartens, G., Mendelson, M., Ward, A. M., Parry, C. M., Talbot, E. A., Munseri, P., Dorman, S. E., Martinson, N., Shah, M., Cain, K., Heilig, C. M., Varma, J. K., von Gottberg, A., Sacks, L., Wilson, D., Squire, S. B., Lalloo, D. G., Davies, G. & Meintjes, G. 2020. Mycobacterium tuberculosis bloodstream infection prevalence, diagnosis, and mortality risk in seriously ill adults with HIV: a systematic review and meta-analysis of individual patient data. *Lancet Infect Dis*, 20, 742-752.
- Barre-Sinoussi, F., Chermann, J. C., Rey, F., Nugeyre, M. T., Chamaret, S., Gruest, J., Dauguet, C., Axler-Blin, C., Vezinet-Brun, F., Rouzioux, C., Rozenbaum, W. & Montagnier, L. 1983. Isolation of a T-lymphotropic retrovirus from a patient at risk for acquired immune deficiency syndrome (AIDS). *Science*, 220, 868-71.
- Bastos, T. C., Maia, D. C., Gomes, N. M., Menezes, C. K., Francesconi, V. & Francesconi, F. 2015. Syphilis associated with parietic neurosyphilis mimicking Reiter's syndrome in HIV-infected patients. *An Bras Dermatol*, 90, 212-5.
- Batra, R., Olivieri, L. G., Rubin, D., Vallari, A., Pearce, S., Olivo, A., Prostko, J., Nebbia, G., Douthwaite, S., Rodgers, M. & Cloherty, G. 2020. A comparative evaluation between the Abbott Panbio COVID-19 IgG/IgM rapid test device and Abbott Architect SARS CoV-2 IgG assay. *J Clin Virol*, 132, 104645.
- Baumann, A., Musaaazi, J., Kambugu, A., Kalin, M., Weissberg, D., Ssemwanga, D., Fehr, J., Castelnovo, B., Sekaggya-Wiltshire, C. & von Braun, A. 2019. Virological Outcome of Patients With HIV Drug Resistance Attending an Urban Outpatient Clinic in Uganda: A Need for Structured Adherence Counseling and Third-Line Treatment Options. *J Acquir Immune Defic Syndr*, 80, 481-487.
- Beaugerie, L., Salauze, B., Bure, A., Deluol, A. M., Hoyeau-Idrissi, N., Carbonnel, F., Ngo, Y., Cosnes, J., Rozenbaum, W., Nicolas, J. C. & Gendre, J. P. 1996. Results of culture form colonoscopically obtained specimens for bacteria and fungi in HIV-infected patients with diarrhea. *Gastrointest Endosc*, 44, 663-6.
- Begley, C., Amaraneni, A. & Lutwick, L. 2015. Mycobacterium avium-intracellulare brain abscesses in an HIV-infected patient. *IDCases*, 2, 19-21.

- Bektic, J., Lell, C. P., Fuchs, A., Stoiber, H., Speth, C., Lass-Flörl, C., Borg-von Zepelin, M., Dierich, M. P. & Wurzner, R. 2001. HIV protease inhibitors attenuate adherence of *Candida albicans* to epithelial cells in vitro. *FEMS Immunol Med Microbiol*, 31, 65-71.
- Bennett, C. L., Focosi, D., Socal, M. P., Bian, J. C., Nabhan, C., Hrushesky, W. J., Bennett, A. C., Schoen, M. W., Berger, J. R., Armitage, J. O. & Southern Network on Adverse, R. 2021. Progressive multifocal leukoencephalopathy in patients treated with rituximab: a 20-year review from the Southern Network on Adverse Reactions. *Lancet Haematol*, 8, e593-e604.
- Bianchi, F. P., De Nitto, S., Stefanizzi, P., Larocca, A. M. V., Germinario, C. A. & Tafuri, S. 2019. Immunity to rubella: an Italian retrospective cohort study. *BMC Public Health*, 19, 1490.
- Bloomfield, G. S., Alenezi, F., Barasa, F. A., Lumsden, R., Mayosi, B. M. & Velazquez, E. J. 2015. Human Immunodeficiency Virus and Heart Failure in Low- and Middle-Income Countries. *JACC Heart Fail*, 3, 579-90.
- Boshoff, C. & Weiss, R. 2002. AIDS-related malignancies. *Nat Rev Cancer*, 2, 373-82.
- Bourlon, C., Vargas-Serafin, C. & Lopez-Karpovitch, X. 2017. Mycobacterium genavense invading the bone marrow in a HIV-positive patient. *Clin Case Rep*, 5, 1043-1045.
- Bouza, E., Martin-Scapa, C., Bernaldo de Quiros, J. C., Martinez-Hernandez, D., Menarguez, J., Gomez-Rodrigo, J., Cosin, J. & Sagues-Cifuentes, M. J. 1988. High prevalence of tuberculosis in AIDS patients in Spain. *Eur J Clin Microbiol Infect Dis*, 7, 785-8.
- Bowers, D. 2008. *Medical Statistics from Scratch, An Introduction for Health Care Professionals*, Sussex, England, John Wiley & Sons Ltd.
- Braun, D. L., Kouyos, R. D., Balmer, B., Grube, C., Weber, R. & Gunthard, H. F. 2015. Frequency and Spectrum of Unexpected Clinical Manifestations of Primary HIV-1 Infection. *Clin Infect Dis*, 61, 1013-21.
- Brechot, C., Thiers, V., Kremsdorf, D., Nalpas, B., Pol, S. & Paterlini-Brechot, P. 2001. Persistent hepatitis B virus infection in subjects without hepatitis B surface antigen: clinically significant or purely "occult"? *Hepatology*, 34, 194-203.
- Briggs, J. A., Wilk, T., Welker, R., Krausslich, H. G. & Fuller, S. D. 2003. Structural organization of authentic, mature HIV-1 virions and cores. *EMBO J*, 22, 1707-15.
- British HIV Association/British Infection Association 2019. British HIV Association/British Infection Association guidelines on the management of opportunistic infection in people living with HIV: The clinical management of Candidiasis 2019. *HIV Med*, 20 Suppl 8, 2-24.
- Brouwer, P. J. M., Caniels, T. G., van der Straten, K., Snitselaar, J. L., Aldon, Y., Bangaru, S., Torres, J. L., Okba, N. M. A., Claireaux, M., Kerster, G., Bentlage, A. E. H., van Haaren, M. M., Guerra, D., Burger, J. A., Schermer, E. E., Verheul, K. D., van der Velde, N., van der Kooi, A., van Schooten, J., van Breemen, M. J., Bijl, T. P. L., Sliepen, K., Aartse, A., Derking, R., Bontjer, I., Kootstra, N. A., Wiersinga, W. J., Vidarsson, G., Haagmans, B. L., Ward, A. B., de Bree, G. J., Sanders, R. W. & van Gils, M. J. 2020. Potent neutralizing antibodies from COVID-19 patients define multiple targets of vulnerability. *Science*, 369, 643-650.
- Bruner, K. T., Franco-Paredes, C., Henao-Martinez, A. F., Steele, G. M. & Chastain, D. B. 2018. *Cryptococcus gattii* Complex Infections in HIV-Infected Patients, Southeastern United States. *Emerg Infect Dis*, 24, 1998-2002.
- Cacciola, I., Pollicino, T., Squadrito, G., Cerenzia, G., Orlando, M. E. & Raimondo, G. 1999. Occult hepatitis B virus infection in patients with chronic hepatitis C liver disease. *N Engl J Med*, 341, 22-6.
- Calux, S. J., Silva, V. C. M., Compri, A. P., Lemos, M. F., Santos, A. P. T., Oba, I. T., Mendes-Correa, M. C. J. & Moreira, R. C. 2020. Hepatitis B: Prevalence and occult infection in HIV-infected patients. *Rev Soc Bras Med Trop*, 53, e20180533.
- Camargo, J. F., Lin, R. Y. & Komanduri, K. V. 2021. Lack of correlation between the SARS-CoV-2 cycle threshold (Ct) value and clinical outcomes in patients with COVID-19. *J Med Virol*, 93, 6059-6062.
- Campbell, E. M. & Hope, T. J. 2015. HIV-1 capsid: the multifaceted key player in HIV-1 infection. *Nat Rev Microbiol*, 13, 471-83.

- Carbonara, S., Tortoli, E., Costa, D., Monno, L., Fiorentino, G., Grimaldi, A., Boscia, D., Rollo, M. A., Pastore, G. & Angarano, G. 2000. Disseminated Mycobacterium terrae infection in a patient with advanced human immunodeficiency virus disease. *Clin Infect Dis*, 30, 831-5.
- CDC. 2018. *Recommended Laboratory HIV Testing Algorithm for Serum or Plasma Specimens* [Online]. USA. Available: <https://stacks.cdc.gov/view/cdc/50872> [Accessed 4 Sep 2020].
- Ceia, F., Santos-Silva, A., Alves, J., Silva-Pinto, A., Oliveira, O., Claudia Carvalho, A., Ramos, A., Carvalho, T., Sarmento, A. & Duarte, R. 2019. Mycobacterial blood cultures in the diagnosis of tuberculosis in human immunodeficiency virus-infected patients: are they useful? *Clin Microbiol Infect*, 25, 264-265.
- Celum, C., Wald, A., Hughes, J., Sanchez, J., Reid, S., Delany-Moretlwe, S., Cowan, F., Casapia, M., Ortiz, A., Fuchs, J., Buchbinder, S., Koblin, B., Zwierski, S., Rose, S., Wang, J., Corey, L. & Team, H. P. 2008. Effect of aciclovir on HIV-1 acquisition in herpes simplex virus 2 seropositive women and men who have sex with men: a randomised, double-blind, placebo-controlled trial. *Lancet*, 371, 2109-19.
- Chaillon, A., Avila-Rios, S., Wertheim, J. O., Dennis, A., Garcia-Morales, C., Tapia-Trejo, D., Mejia-Villatoro, C., Pascale, J. M., Porras-Cortes, G., Quant-Duran, C. J., Lorenzana, I., Meza, R. I., Palou, E. Y., Manzanero, M., Cedillos, R. A., Reyes-Teran, G., Mehta, S. R. & Mesoamerican Project, G. 2017. Identification of major routes of HIV transmission throughout Mesoamerica. *Infect Genet Evol*, 54, 98-107.
- Chakaya, J., Khan, M., Ntouni, F., Aklillu, E., Fatima, R., Mwaba, P., Kapata, N., Mfinanga, S., Hasnain, S. E., Katoto, P., Bulabula, A. N. H., Sam-Agudu, N. A., Nachega, J. B., Tiberi, S., McHugh, T. D., Abubakar, I. & Zumla, A. 2021. Global Tuberculosis Report 2020 - Reflections on the Global TB burden, treatment and prevention efforts. *Int J Infect Dis*.
- Cheng, M. P., Stenstrom, R., Paquette, K., Stabler, S. N., Akhter, M., Davidson, A. C., Gavric, M., Lawandi, A., Jinah, R., Saeed, Z., Demir, K., Huang, K., Mahpour, A., Shamatutu, C., Caya, C., Troquet, J. M., Clark, G., Yansouni, C. P., Sweet, D. & Investigators, F. 2019. Blood Culture Results Before and After Antimicrobial Administration in Patients With Severe Manifestations of Sepsis: A Diagnostic Study. *Ann Intern Med*, 171, 547-554.
- Chiang, C. H., Lee, G. H., Chiang, T. H., Tang, P. U. & Fang, C. T. 2020. Disseminated Mycobacterium avium complex infection as a differential diagnosis of tuberculosis in HIV patients. *Int J Tuberc Lung Dis*, 24, 922-927.
- Chou, Y. J., Lin, H. W., Yang, C. J., Chen, M. Y., Sheng, W. H., Liu, W. C., Chang, S. Y., Hung, C. C., Hsueh, P. R. & Chang, S. C. 2016. Risk of recurrent nontyphoid Salmonella bacteremia in human immunodeficiency virus-infected patients with short-term secondary prophylaxis in the era of combination antiretroviral therapy. *J Microbiol Immunol Infect*, 49, 760-767.
- Chu, C. & Selwyn, P. A. 2011. Complications of HIV infection: a systems-based approach. *Am Fam Physician*, 83, 395-406.
- Coelho, L. E., Ribeiro, S. R., Veloso, V. G., Grinsztejn, B. & Luz, P. M. 2017. Hospitalization rates, length of stay and in-hospital mortality in a cohort of HIV infected patients from Rio de Janeiro, Brazil. *Braz J Infect Dis*, 21, 190-195.
- Colman, S., Vernelen, K., China, B., Van den Bossche, D., Cornelissen, L., Delforge, M. L., Reynders, M., Berth, M., Depypere, M., Van Gasse, N., Vijgen, S., Van Acker, J., Boel, A. & Padalko, E. 2021. Pitfalls of rubella serology while on the brink of elimination: evaluation of national data, Belgium, 2017. *Euro Surveill*, 26.
- Connors, M., Kovacs, J. A., Krevat, S., Gea-Banacloche, J. C., Sneller, M. C., Flanigan, M., Metcalf, J. A., Walker, R. E., Falloon, J., Baseler, M., Feuerstein, I., Masur, H. & Lane, H. C. 1997. HIV infection induces changes in CD4+ T-cell phenotype and depletions within the CD4+ T-cell repertoire that are not immediately restored by antiviral or immune-based therapies. *Nat Med*, 3, 533-40.
- Conville, P. S., Keiser, J. F. & Witebsky, F. G. 1989. Mycobacteremia caused by simultaneous infection with Mycobacterium avium and Mycobacterium intracellulare detected by analysis of a BACTEC 13A bottle with the Gen-Probe kit. *Diagn Microbiol Infect Dis*, 12, 217-9.

- Corcoran, C. & Hardie, D. R. 2005. Seroprevalence of rubella antibodies among antenatal patients in the Western Cape. *S Afr Med J*, 95, 688-90.
- Cortese, I., Reich, D. S. & Nath, A. 2021. Progressive multifocal leukoencephalopathy and the spectrum of JC virus-related disease. *Nat Rev Neurol*, 17, 37-51.
- Creswell, J. W. & Creswell, J. D. 2018. *Research Design, Qualitative, Quantitative, and Mixed Methods Approaches*, SAGE.
- Crisci, E., Svanberg, C., Ellegard, R., Khalid, M., Hellblom, J., Okuyama, K., Bhattacharya, P., Nystrom, S., Shankar, E. M., Eriksson, K. & Larsson, M. 2019. HSV-2 Cellular Programming Enables Productive HIV Infection in Dendritic Cells. *Front Immunol*, 10, 2889.
- Cudahy, P. G. T., Warren, J. L., Cohen, T. & Wilson, D. 2018. Trends in C-Reactive Protein, D-Dimer, and Fibrinogen during Therapy for HIV-Associated Multidrug-Resistant Tuberculosis. *Am J Trop Med Hyg*, 99, 1336-1341.
- D'Arc, M., Ayoub, A., Esteban, A., Learn, G. H., Boue, V., Liegeois, F., Etienne, L., Tagg, N., Leendertz, F. H., Boesch, C., Madinda, N. F., Robbins, M. M., Gray, M., Cournil, A., Ooms, M., Letko, M., Simon, V. A., Sharp, P. M., Hahn, B. H., Delaporte, E., Mpoudi Ngole, E. & Peeters, M. 2015. Origin of the HIV-1 group O epidemic in western lowland gorillas. *Proc Natl Acad Sci U S A*, 112, E1343-52.
- Daelemans, D., Afonina, E., Nilsson, J., Werner, G., Kijms, J., De Clercq, E., Pavlakis, G. N. & Vandamme, A. M. 2002. A synthetic HIV-1 Rev inhibitor interfering with the CRM1-mediated nuclear export. *Proc Natl Acad Sci U S A*, 99, 14440-5.
- Dai, S. Y., Liu, J. J., Fan, Y. G., Shan, G. S., Zhang, H. B., Li, M. Q. & Ye, D. Q. 2015. Prevalence and factors associated with late HIV diagnosis. *J Med Virol*, 87, 970-7.
- Daliparty, V. M. & Balasubramanya, R. 2021. HIV Encephalitis. *StatPearls*. Treasure Island (FL).
- Daniels, J., Struthers, H., Maleke, K., Lane, T., McIntyre, J. & Coates, T. 2019. 'My Tablets are on Top of the Fridge': The Roles of Relationship Desire and Medical Mistrust in ART Adherence for HIV-Positive MSM and Transgender Women Living in Rural South Africa. *AIDS Behav*, 23, 2849-2858.
- Dard, C., Fricker-Hidalgo, H., Brenier-Pinchart, M. P. & Pelloux, H. 2016. Relevance of and New Developments in Serology for Toxoplasmosis. *Trends Parasitol*, 32, 492-506.
- De Castro, S., Migliau, G., Silvestri, A., D'Amati, G., Giannantoni, P., Cartoni, D., Kol, A., Vullo, V. & Cirelli, A. 1992. Heart involvement in AIDS: a prospective study during various stages of the disease. *Eur Heart J*, 13, 1452-9.
- Deeks, S. G. 2011. HIV infection, inflammation, immunosenescence, and aging. *Annu Rev Med*, 62, 141-55.
- Deeks, S. G., Overbaugh, J., Phillips, A. & Buchbinder, S. 2015. HIV infection. *Nat Rev Dis Primers*, 1, 15035.
- Despotovic, A., Savic, B., Salemovic, D., Ranin, J. & Jevtovic, D. 2016. Isoniazid-resistant *Mycobacterium kansasii* in an HIV-positive patient, and possible development of immune reconstitution inflammatory syndrome after initiation of highly active antiretroviral therapy: case report. *Int J Infect Dis*, 42, 40-42.
- Di Grandi, M., Olson, M., Prasad, A. S., Bebernitz, G., Luckay, A., Mullen, S., Hu, Y., Krishnamurthy, G., Pitts, K. & O'Connell, J. 2010. Small molecule inhibitors of HIV RT Ribonuclease H. *Bioorg Med Chem Lett*, 20, 398-402.
- Dodt, K. K., Jacobsen, P. H., Hofmann, B., Meyer, C., Kolmos, H. J., Skinhoj, P., Norrild, B. & Mathiesen, L. 1997. Development of cytomegalovirus (CMV) disease may be predicted in HIV-infected patients by CMV polymerase chain reaction and the antigenemia test. *AIDS*, 11, F21-8.
- Doitsh, G., Galloway, N. L., Geng, X., Yang, Z., Monroe, K. M., Zepeda, O., Hunt, P. W., Hatano, H., Sowinski, S., Munoz-Arias, I. & Greene, W. C. 2014. Cell death by pyroptosis drives CD4 T-cell depletion in HIV-1 infection. *Nature*, 505, 509-14.
- Doyle, T., Goujon, C. & Malim, M. H. 2015. HIV-1 and interferons: who's interfering with whom? *Nat Rev Microbiol*, 13, 403-13.

- Du, K. F., Huang, X. J., Chen, C., Kong, W. J., Xie, L. Y., Dong, H. W. & Wei, W. B. 2021. High Blood Cytomegalovirus Load Suggests Cytomegalovirus Retinitis in HIV/AIDS Patients: A Cross-Sectional Study. *Ocul Immunol Inflamm*, 1-5.
- Dube, M., Roy, B. B., Guiot-Guillain, P., Binette, J., Mercier, J., Chiasson, A. & Cohen, E. A. 2010. Antagonism of tetherin restriction of HIV-1 release by Vpu involves binding and sequestration of the restriction factor in a perinuclear compartment. *PLoS Pathog*, 6, e1000856.
- Dunphy, L., Palmer, B., Chen, F. & Kitchen, J. 2021. Fulminant diffuse cerebral toxoplasmosis as the first manifestation of HIV infection. *BMJ Case Rep*, 14.
- Dupont, D., Fricker-Hidalgo, H., Brenier-Pinchart, M. P., Garnaoud, C., Wallon, M. & Pelloux, H. 2021. Serology for Toxoplasma in Immunocompromised Patients: Still Useful? *Trends Parasitol*, 37, 205-213.
- Dwyer-Lindgren, L., Cork, M. A., Sligar, A., Steuben, K. M., Wilson, K. F., Provost, N. R., Mayala, B. K., VanderHeide, J. D., Collison, M. L., Hall, J. B., Biehl, M. H., Carter, A., Frank, T., Douwes-Schultz, D., Burstein, R., Casey, D. C., Deshpande, A., Earl, L., El Bcheraoui, C., Farag, T. H., Henry, N. J., Kinyoki, D., Marczak, L. B., Nixon, M. R., Osgood-Zimmerman, A., Pigott, D., Reiner, R. C., Jr., Ross, J. M., Schaeffer, L. E., Smith, D. L., Davis Weaver, N., Wiens, K. E., Eaton, J. W., Justman, J. E., Opio, A., Sartorius, B., Tanser, F., Wabiri, N., Piot, P., Murray, C. J. L. & Hay, S. I. 2019. Mapping HIV prevalence in sub-Saharan Africa between 2000 and 2017. *Nature*, 570, 189-193.
- Ebtasari, I. A., Intansari, U. S. & Mulyono, B. 2017. *Korelasi Sel T CD4 dengan persentase sel T CD8/38 pada Pasien Baru Terdiagnosis HIV. Tesis S2 Ilmu Kedokteran Klinik FK-KMK UGM*, Universitas Gadjah Mada.
- Edmondson, D. G., Hu, B. & Norris, S. J. 2018. Long-Term In Vitro Culture of the Syphilis Spirochete *Treponema pallidum* subsp. *pallidum*. *mBio*, 9.
- Edwar, L., Ha, P., Ariyanto, I. A., Estiasari, R., Sitompul, R., Lee, S. & Price, P. 2021. A TNF Block Genotype may Influence CMV Retinitis in HIV Patients without Affecting Systemic Viral Replication. *Curr HIV Res*, 19, 96-99.
- Ejeh, F. E., Undiandeye, A., Okon, K., Kazeem, H. M. & Kudi, A. C. 2020. Isolation and Immunological Detection of Mycobacterium Tuberculosis from HIV and Non-HIV Patients in Benue State, Nigeria. *Ethiop J Health Sci*, 30, 55-64.
- Erard, P., Robert-Grandpierre, F. & Kaeser, P. 1999. Vertebral osteomyelitis caused by Mycobacterium avium-intracellulare in a patient with AIDS. *Clin Microbiol Infect*, 5, 643-4.
- Esnakula, A. K., Summers, I. & Naab, T. J. 2013. Fatal disseminated fusarium infection in a human immunodeficiency virus positive patient. *Case Rep Infect Dis*, 2013, 379320.
- Falci, D. R., Monteiro, A. A., Braz Caurio, C. F., Magalhaes, T. C. O., Xavier, M. O., Basso, R. P., Melo, M., Schwarzbald, A. V., Ferreira, P. R. A., Vidal, J. E., Marochi, J. P., Godoy, C. S. M., Soares, R. B. A., Paste, A., Bay, M. B., Pereira-Chiccola, V. L., Damasceno, L. S., Leitao, T. & Pasqualotto, A. C. 2019. Histoplasmosis, An Underdiagnosed Disease Affecting People Living With HIV/AIDS in Brazil: Results of a Multicenter Prospective Cohort Study Using Both Classical Mycology Tests and Histoplasma Urine Antigen Detection. *Open Forum Infect Dis*, 6, ofz073.
- Feller, L., Khammissa, R. A., Wood, N. H., Meyerov, R., Pantanowitz, L. & Lemmer, J. 2012. Oral ulcers and necrotizing gingivitis in relation to HIV-associated neutropenia: a review and an illustrative case. *AIDS Res Hum Retroviruses*, 28, 346-51.
- Fernandes, K. E., Brockway, A., Haverkamp, M., Cuomo, C. A., van Ogtrop, F., Perfect, J. R. & Carter, D. A. 2018. Phenotypic Variability Correlates with Clinical Outcome in Cryptococcus Isolates Obtained from Botswanan HIV/AIDS Patients. *mBio*, 9.
- Filippini, P., Coppola, N., Pisapia, R., Scolastico, C., Marrocco, C., Zaccariello, A., Nacca, C., Sagnelli, C., De Stefano, G., Ferraro, T., De Stefano, C. & Sagnelli, E. 2006. Impact of occult hepatitis B virus infection in HIV patients naive for antiretroviral therapy. *AIDS*, 20, 1253-60.
- Frankel, A. D. & Young, J. A. 1998. HIV-1: fifteen proteins and an RNA. *Annu Rev Biochem*, 67, 1-25.

- Freed, E. O. 1998. HIV-1 gag proteins: diverse functions in the virus life cycle. *Virology*, 251, 1-15.
- Freed, E. O. 2015. HIV-1 assembly, release and maturation. *Nat Rev Microbiol*, 13, 484-96.
- Freeman, E. E., Busakhala, N., Regan, S., Asirwa, F. C., Wenger, M., Seth, D., Moon, K. C., Semeere, A., Maurer, T., Wools-Kaloustian, K., Bassett, I. & Martin, J. 2020. Real-world use of chemotherapy for Kaposi's sarcoma in a large community-based HIV primary care system in Kenya. *BMC Cancer*, 20, 71.
- Furrer, H., Chan, P., Weber, R., Egger, M. & Swiss, H. I. V. C. S. 2001. Increased risk of wasting syndrome in HIV-infected travellers: prospective multicentre study. *Trans R Soc Trop Med Hyg*, 95, 484-6.
- Furukawa, Y., Hamada, H., Kamikawaji, K., Unoki, T., Inoue, H., Tashiro, Y., Okamoto, M., Baba, M. & Hashiguchi, T. 2019. Successful treatment of an AIDS patient with prolonged Mycobacterium avium bacteremia, high HIV RNA, HBV infection, Kaposi's sarcoma and cytomegalovirus retinitis. *J Infect Chemother*.
- Gaetti-Jardim Junior, E., Nakano, V., Wahasugui, T. C., Cabral, F. C., Gamba, R. & Avila-Campos, M. J. 2008. Occurrence of yeasts, enterococci and other enteric bacteria in subgingival biofilm of HIV-positive patients with chronic gingivitis and necrotizing periodontitis. *Braz J Microbiol*, 39, 257-61.
- Gandhi, M. & Gandhi, R. T. 2014. Single-pill combination regimens for treatment of HIV-1 infection. *N Engl J Med*, 371, 248-59.
- GBD 2015 HIV Collaborators 2016. Estimates of global, regional, and national incidence, prevalence, and mortality of HIV, 1980-2015: the Global Burden of Disease Study 2015. *Lancet HIV*, 3, e361-e387.
- Gbd Hiv collaborators 2019. Global, regional, and national incidence, prevalence, and mortality of HIV, 1980-2017, and forecasts to 2030, for 195 countries and territories: a systematic analysis for the Global Burden of Diseases, Injuries, and Risk Factors Study 2017. *Lancet HIV*, 6, e831-e859.
- Genberg, B., Wachira, J., Kafu, C., Wilson, I., Koech, B., Kamene, R., Akinyi, J., Knight, J., Braitstein, P. & Ware, N. 2019. Health System Factors Constrain HIV Care Providers in Delivering High-Quality Care: Perceptions from a Qualitative Study of Providers in Western Kenya. *J Int Assoc Provid AIDS Care*, 18, 2325958218823285.
- Gheibi, Z., Dianatinasab, M., Haghparast, A., Mirzazadeh, A. & Fararouei, M. 2020. Gender difference in all-cause mortality of people living with HIV in Iran: findings from a 20-year cohort study. *HIV Med*, 21, 659-667.
- Gifford, A. L., Cunningham, W. E., Heslin, K. C., Andersen, R. M., Nakazono, T., Lieu, D. K., Shapiro, M. F., Bozzette, S. A., Cost, H. I. V. & Services Utilization Study, C. 2002. Participation in research and access to experimental treatments by HIV-infected patients. *N Engl J Med*, 346, 1373-82.
- Gilks, C. F., Brindle, R. J., Otieno, L. S., Bhatt, S. M., Newnham, R. S., Simani, P. M., Lule, G. N., Okelo, G. B., Watkins, W. M., Waiyaki, P. G. & et al. 1990. Extrapulmonary and disseminated tuberculosis in HIV-1-seropositive patients presenting to the acute medical services in Nairobi. *AIDS*, 4, 981-5.
- Goila-Gaur, R. & Strebel, K. 2008. HIV-1 Vif, APOBEC, and intrinsic immunity. *Retrovirology*, 5, 51.
- Gonzales Zamora, J. A. & Espinoza, L. A. 2017. Histoplasma and Cytomegalovirus Coinfection of the Gastrointestinal Tract in a Patient with AIDS: A Case Report and Review of the Literature. *Diseases*, 5.
- Gordon, M. A. 2008. Salmonella infections in immunocompromised adults. *J Infect*, 56, 413-22.
- Gordon, M. A., Kankwatira, A. M., Mwafulirwa, G., Walsh, A. L., Hopkins, M. J., Parry, C. M., Faragher, E. B., Zijlstra, E. E., Heyderman, R. S. & Molyneux, M. E. 2010. Invasive non-typhoid salmonellae establish systemic intracellular infection in HIV-infected adults: an emerging disease pathogenesis. *Clin Infect Dis*, 50, 953-62.
- Grabar, S., Lanoy, E., Allavena, C., Mary-Krause, M., Bentata, M., Fischer, P., Mahamat, A., Rabaud, C., Costagliola, D. & Clinical Epidemiology Group of the French Hospital Database on, H. I. V. 2008. Causes of the first AIDS-defining illness and subsequent

- survival before and after the advent of combined antiretroviral therapy. *HIV Med*, 9, 246-56.
- Gray, C., Crawford, G., Lobo, R. & Maycock, B. 2019. Co-Designing an Intervention to Increase HIV Testing Uptake with Women from Indonesia At-Risk of HIV: Protocol for a Participatory Action Research Study. *Methods Protoc*, 2.
- Greenspan, D., Greenspan, J. S., Hearst, N. G., Pan, L. Z., Conant, M. A., Abrams, D. I., Hollander, H. & Levy, J. A. 1987. Relation of oral hairy leukoplakia to infection with the human immunodeficiency virus and the risk of developing AIDS. *J Infect Dis*, 155, 475-81.
- Greigert, V., Di Foggia, E., Filisetti, D., Villard, O., Pfaff, A. W., Sauer, A. & Candolfi, E. 2019. When biology supports clinical diagnosis: review of techniques to diagnose ocular toxoplasmosis. *Br J Ophthalmol*, 103, 1008-1012.
- Griffiths, P. & Reeves, M. 2021. Pathogenesis of human cytomegalovirus in the immunocompromised host. *Nat Rev Microbiol*.
- Guatelli, J. C., Siliciano, R. F., Kuritzkes, D. R. & Richman, D. D. 2017. Human Immunodeficiency Virus. In: RICHMAN, D. T., WHITLEY, R. J. & HAYDEN, F. (eds.) *Clinical Virology*. Washington DC: ASM Press.
- Guedan, A., Caroe, E. R., Barr, G. C. R. & Bishop, K. N. 2021. The Role of Capsid in HIV-1 Nuclear Entry. *Viruses*, 13.
- Gunda, D. W., Nkandala, I., Kilonzo, S. B., Kilangi, B. B. & Mpondo, B. C. 2017. Prevalence and Risk Factors of Mortality among Adult HIV Patients Initiating ART in Rural Setting of HIV Care and Treatment Services in North Western Tanzania: A Retrospective Cohort Study. *J Sex Transm Dis*, 2017, 7075601.
- Guo, F., Liu, Y., Li, Y., Fan, H. & Li, T. 2014. Disseminated Mycobacterium avium complex infection manifested as Brown-Sequard syndrome in an HIV-infected patient. *Chin Med J (Engl)*, 127, 799.
- Guo, H., Wang, Q., Ghneim, K., Wang, L., Rampanelli, E., Holley-Guthrie, E., Cheng, L., Garrido, C., Margolis, D. M., Eller, L. A., Robb, M. L., Sekaly, R. P., Chen, X., Su, L. & Ting, J. P. 2021. Multi-omics analyses reveal that HIV-1 alters CD4(+) T cell immunometabolism to fuel virus replication. *Nat Immunol*, 22, 423-433.
- Gupta, A. K., Kumar, V. & Mankotia, J. 2016. NTM Pulmonary Infection: Differential Diagnosis of MDR TB Pulmonary Infection. *J Assoc Physicians India*, 64, 99.
- Hanscheid, T., Monteiro, C., Marques-Lito, L., Melo-Cristino, J. & Salgado, M. J. 2004. Usefulness of Myco/F Lytic blood cultures (Bactec 9050) in the detection of Mycobacterium tuberculosis bacteraemia in HIV-infected patients in Portugal. *Int J Infect Dis*, 8, 253-4.
- Harnanti, D. V., Hidayati, A. N. & Miftahussurur, M. 2018. Concomitant Sexually Transmitted Diseases in Patients with Diagnosed Hiv/Aids: A Retrospective Study. *Afr J Infect Dis*, 12, 83-89.
- Harvala, H., Reynolds, C., Ijaz, S., Maddox, V., Penchala, S. D., Amara, A., Else, L., Brailsford, S. & Khoo, S. 2021. Evidence of HIV pre-exposure or post-exposure prophylaxis (PrEP/PEP) among blood donors: a pilot study, England June 2018 to July 2019. *Sex Transm Infect*.
- Hayward, S. E., Rustage, K., Nellums, L. B., van der Werf, M. J., Noori, T., Boccia, D., Friedland, J. S. & Hargreaves, S. 2021. Extrapulmonary tuberculosis among migrants in Europe, 1995 to 2017. *Clin Microbiol Infect*, 27, 1347 e1-1347 e7.
- Hecht, F. M., Wellman, R., Busch, M. P., Pilcher, C. D., Norris, P. J., Margolick, J. B., Collier, A. C., Little, S. J., Markowitz, M., Routy, J. P., Holte, S. & Acute Infection Early Disease Research, P. 2011. Identifying the early post-HIV antibody seroconversion period. *J Infect Dis*, 204, 526-33.
- Held, M., Laubscher, M., Workman, L., Zar, H. J. & Dunn, R. 2017. Diagnostic accuracy of GeneXpert MTB/RIF in musculoskeletal tuberculosis: High sensitivity in tissue samples of HIV-infected and HIV-uninfected patients. *S Afr Med J*, 107, 854-858.
- Hernandez-Ramirez, R. U., Qin, L., Lin, H., Leyden, W., Neugebauer, R. S., Althoff, K. N., Hessol, N. A., Achenbach, C. J., Brooks, J. T., Gill, M. J., Grover, S., Horberg, M. A., Li, J., Mathews, W. C., Mayor, A. M., Patel, P., Rabkin, C. S., Rachlis, A., Justice, A. C.,

- Moore, R. D., Engels, E. A., Silverberg, M. J., Dubrow, R., North American, A. C. C. o. R. & Design of the International Epidemiologic Databases to Evaluate, A. 2019. Association of immunosuppression and HIV viremia with anal cancer risk in persons living with HIV in the United States and Canada. *Clin Infect Dis*.
- Hilgartner, M. W., Maeder, M. A., Mahoney, E. M., Donfield, S. M., Evatt, B. L. & Hoots, W. K. 2001. Response to measles, mumps, and rubella revaccination among HIV-positive and HIV-negative children and adolescents with hemophilia. Hemophilia Growth and Development Study. *Am J Hematol*, 66, 92-8.
- Hissong, E., Schechter, S., Mowers, J., Yantiss, R. K., Slavik, T., Cheng, J. & Lamps, L. W. 2020. The diagnosis of clinically significant oesophageal Candida infections: a reappraisal of clinicopathological findings. *Histopathology*, 76, 748-754.
- Hoffmann, C. J., Milovanovic, M., Cichowitz, C., Kinghorn, A., Martinson, N. A. & Variava, E. 2019. Readmission and death following hospitalization among people with HIV in South Africa. *PLoS One*, 14, e0218902.
- Hope, T. J. 1999. The ins and outs of HIV Rev. *Arch Biochem Biophys*, 365, 186-91.
- Huang, H., Deng, J., Qin, C., Zhou, J. & Duan, M. 2021. Disseminated Coinfection by Mycobacterium fortuitum and Talaromyces marneffei in a Non-HIV Case. *Infect Drug Resist*, 14, 3619-3625.
- Huang, Y. C., Sun, H. Y., Chuang, Y. C., Huang, Y. S., Lin, K. Y., Huang, S. H., Chen, G. J., Luo, Y. Z., Wu, P. Y., Liu, W. C., Hung, C. C. & Chang, S. C. 2019. Short-term outcomes of rapid initiation of antiretroviral therapy among HIV-positive patients: real-world experience from a single-centre retrospective cohort in Taiwan. *BMJ Open*, 9, e033246.
- Hussein, M., Abdelhadi, A., Elarabi, A., Rashid, I., Alabbas, A. & Aladab, A. 2021. Extrapulmonary Tuberculosis masquerading as chest wall malignancy: Just never ceases to surprise! *IDCases*, 24, e01114.
- Imam, I. 2005. The neurology of HIV infection--a review of the literature. *Niger J Med*, 14, 121-31.
- Intansari, U. S., Mulyono, B., Soesatyo, M. H. N. E., Juffrie, M. & Soebronto, Y. W. 2016. Hubungan Sel CD8/38+, Fenotipe sel T CD4/45RA+, dan CD4/45RO+ dengan pemulihan sel T CD4 dalam 6 bulan terapi antiretroviral pada Pasien terinfeksi HIV (Human immunodeficiency virus). Doctor, Universitas Gadjah Mada.
- Jacques, D. A., McEwan, W. A., Hilditch, L., Price, A. J., Towers, G. J. & James, L. C. 2016. HIV-1 uses dynamic capsid pores to import nucleotides and fuel encapsidated DNA synthesis. *Nature*, 536, 349-53.
- Januario, Y. C. & daSilva, L. L. P. 2020. Hijacking of endocytosis by HIV-1 Nef is becoming crystal clear. *Nat Struct Mol Biol*, 27, 773-775.
- Jia, Z., Ruan, Y. & Lu, Z. 2015. HIV incidence and mortality in China. *Lancet*, 385, 1510.
- Jiang, J., Meng, S., Huang, S., Ruan, Y., Lu, X., Li, J. Z., Wu, N., Huang, J., Xie, Z., Liang, B., Deng, J., Zhou, B., Chen, X., Ning, C., Liao, Y., Wei, W., Lai, J., Ye, L., Wu, F. & Liang, H. 2019. Effects of Talaromyces marneffei infection on mortality of HIV/AIDS patients in southern China: a retrospective cohort study. *Clin Microbiol Infect*, 25, 233-241.
- Jilg, W., Sieger, E., Zachoval, R. & Schatzl, H. 1995. Individuals with antibodies against hepatitis B core antigen as the only serological marker for hepatitis B infection: high percentage of carriers of hepatitis B and C virus. *J Hepatol*, 23, 14-20.
- Julg, B., Pereyra, F., Buzon, M. J., Piechocka-Trocha, A., Clark, M. J., Baker, B. M., Lian, J., Miura, T., Martinez-Picado, J., Addo, M. M. & Walker, B. D. 2010. Infrequent recovery of HIV from but robust exogenous infection of activated CD4(+) T cells in HIV elite controllers. *Clin Infect Dis*, 51, 233-8.
- Kacanek, D., Huo, Y., Malee, K., Mellins, C. A., Smith, R., Garvie, P. A., Tassiopoulos, K., Lee, S., Berman, C. A., Paul, M., Puga, A., Allison, S. & Pediatric, H. I. V. A. C. S. 2019. Nonadherence and unsuppressed viral load across adolescence among US youth with perinatally acquired HIV. *AIDS*, 33, 1923-1934.
- Kaleeba, J. A. & Berger, E. A. 2006. Kaposi's sarcoma-associated herpesvirus fusion-entry receptor: cystine transporter xCT. *Science*, 311, 1921-4.

- Kamis, K. F., Marx, G. E., Scott, K. A., Gardner, E. M., Wendel, K. A., Scott, M. L., Montgomery, A. E. & Rowan, S. E. 2019. Same-Day HIV Pre-Exposure Prophylaxis (PrEP) Initiation During Drop-in Sexually Transmitted Diseases Clinic Appointments Is a Highly Acceptable, Feasible, and Safe Model that Engages Individuals at Risk for HIV into PrEP Care. *Open Forum Infect Dis*, 6, ofz310.
- Kankwatira, A. M., Mwafurirwa, G. A. & Gordon, M. A. 2004. Non-typhoidal salmonella bacteraemia--an under-recognized feature of AIDS in African adults. *Trop Doct*, 34, 198-200.
- Karabela, S. N. & Kart Yasar, K. 2020. Fever of unknown origin: evaluation of 110 classical and HIV-associated cases in the last decade. *Hosp Pract (1995)*, 1-6.
- Karahasan Yagci, A., Sarinoglu, R. C., Bilgin, H., Yanilmaz, O., Sayin, E., Deniz, G., Guncu, M. M., Doyuk, Z., Baris, C., Kuzan, B. N., Aslan, B., Korten, V. & Cimsit, C. 2020. Relationship of the cycle threshold values of SARS-CoV-2 polymerase chain reaction and total severity score of computerized tomography in patients with COVID 19. *Int J Infect Dis*, 101, 160-166.
- Kasproicz, V. O., Cheng, T. Y., Ndung'u, T., Sunpath, H., Moody, D. B. & Kasmar, A. G. 2016. HIV Disrupts Human T Cells That Target Mycobacterial Glycolipids. *J Infect Dis*, 213, 628-33.
- Kementrian Kesehatan RI 2019. Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/Menkes/90/2019 Tentang Pedoman Nasional Pelayanan Kedokteran Tata Laksana HIV. Jakarta: Kementrian Kesehatan RI.
- Kerr, A. R. & Ship, J. A. 2003. Management strategies for HIV-associated aphthous stomatitis. *Am J Clin Dermatol*, 4, 669-80.
- Kilby, J. M., Hopkins, S., Venetta, T. M., DiMassimo, B., Cloud, G. A., Lee, J. Y., Alldredge, L., Hunter, E., Lambert, D., Bolognesi, D., Matthews, T., Johnson, M. R., Nowak, M. A., Shaw, G. M. & Saag, M. S. 1998. Potent suppression of HIV-1 replication in humans by T-20, a peptide inhibitor of gp41-mediated virus entry. *Nat Med*, 4, 1302-7.
- Kim, M. J., Nam, Y. S., Cho, S. Y., Park, T. S. & Lee, H. J. 2015. Comparison of the Xpert MTB/RIF Assay and Real-time PCR for the Detection of Mycobacterium tuberculosis. *Ann Clin Lab Sci*, 45, 327-32.
- Kim, S., Graham, S. S., Ahn, S., Olson, M. K., Card, D. J., Kessler, M. M., DeVasto, D. M., Roberts, L. R. & Bubacy, F. A. 2016. Correcting Biased Cohen's Kappa in NVivo. *Communication Methods and Measures*, 10, 217-232.
- Kirti, Y. K. 2019. Prevalence of Oral Candidiasis in Indian HIV Sero-Positive Patients with CD4(+) Cell Count Correlation. *Indian J Otolaryngol Head Neck Surg*, 71, 124-127.
- Kitkungvan, D., Apisarnthanarak, A., Plengpart, P. & Mundy, L. M. 2008. Fever of unknown origin in patients with HIV infection in Thailand: an observational study and review of the literature. *Int J STD AIDS*, 19, 232-5.
- Ko, Y., Lee, H. K., Lee, Y. S., Kim, M. Y., Shin, J. H., Shim, E. J., Park, S. Y., Mo, E. K. & Park, Y. B. 2016. Accuracy of Xpert((R)) MTB/RIF assay compared with AdvanSure TB/NTM real-time PCR using bronchoscopy specimens. *Int J Tuberc Lung Dis*, 20, 115-20.
- Koay, W. L. A., Siems, L. V. & Persaud, D. 2018. The microbiome and HIV persistence: implications for viral remission and cure. *Curr Opin HIV AIDS*, 13, 61-68.
- Kobyakova, O. S., Deev, I. A., Vinokurova, D. A., Zima, A. P., Tyufilin, D. S., Yun, V. E., Chernysheva, E. A., Yarovoy, N. D., Ratkina, K. R., Shemuratova, A. I., Agbo, E. U., Kulikova, K. V., Tagina, E. K. & Kulikov, E. S. 2021. Is there a real need for sputum culture for community-acquired pneumonia diagnostics? Results from a retrospective study in Russia. *Diagnosis (Berl)*, 8, 377-381.
- Kogan, M. & Rappaport, J. 2011. HIV-1 accessory protein Vpr: relevance in the pathogenesis of HIV and potential for therapeutic intervention. *Retrovirology*, 8, 25.
- Kohli, M., Schiller, I., Dendukuri, N., Yao, M., Dheda, K., Denkinger, C. M., Schumacher, S. G. & Steingart, K. R. 2021. Xpert MTB/RIF Ultra and Xpert MTB/RIF assays for extrapulmonary tuberculosis and rifampicin resistance in adults. *Cochrane Database Syst Rev*, 1, CD012768.

- Konopnicki, D., Mocroft, A., de Wit, S., Antunes, F., Ledergerber, B., Katlama, C., Zilmer, K., Vella, S., Kirk, O., Lundgren, J. D. & Euro, S. G. 2005. Hepatitis B and HIV: prevalence, AIDS progression, response to highly active antiretroviral therapy and increased mortality in the EuroSIDA cohort. *AIDS*, 19, 593-601.
- Kopstein, M. & Mohlman, D. J. 2021. HIV-1 Encephalopathy And Aids Dementia Complex. *StatPearls*. Treasure Island (FL).
- Kulshrestha, M. & Kulshrestha, A. 2019. Use of TPHA and VDRL in The Diagnosis of Syphilis. *International Journal of Medical and Biomedical Studies*, 3, 275-278. .
- Kumar, A., Abbas, W., Colin, L., Khan, K. A., Bouchat, S., Varin, A., Larbi, A., Gatot, J. S., Kabeya, K., Vanhulle, C., Delacourt, N., Pasquereau, S., Coquard, L., Borch, A., Konig, R., Clumeck, N., De Wit, S., Rohr, O., Rouzioux, C., Fulop, T., Van Lint, C. & Herbein, G. 2016. Tuning of AKT-pathway by Nef and its blockade by protease inhibitors results in limited recovery in latently HIV infected T-cell line. *Sci Rep*, 6, 24090.
- Le Hingrat, Q., Sereti, I., Landay, A. L., Pandrea, I. & Apetrei, C. 2021. The Hitchhiker Guide to CD4(+) T-Cell Depletion in Lentiviral Infection. A Critical Review of the Dynamics of the CD4(+) T Cells in SIV and HIV Infection. *Front Immunol*, 12, 695674.
- Le-Bury, G., Deschamps, C., Kizilyaprak, C., Blanchard, W., Daraspe, J., Dumas, A., Gordon, M. A., Hinton, J. C. D., Humbel, B. M. & Niedergang, F. 2020. Increased intracellular survival of Salmonella Typhimurium ST313 in HIV-1-infected primary human macrophages is not associated with Salmonella hijacking the HIV compartment. *Biol Cell*, 112, 92-101.
- Lee, Y. C., Lu, C. L., Lai, C. C., Tseng, Y. T., Sun, H. Y. & Hung, C. C. 2013. Mycobacterium avium complex infection-related immune reconstitution inflammatory syndrome of the central nervous system in an HIV-infected patient: case report and review. *J Microbiol Immunol Infect*, 46, 68-72.
- Leenasirimakul, P., Liu, Y., Jirawison, C., Khienprasit, N., Kamphaengkham, S., Ausayakhun, S., Chen, J., Yen, M., Heiden, D., Holland, G. N., Margolis, T. P. & Keenan, J. D. 2016. Risk factors for CMV retinitis among individuals with HIV and low CD4 count in northern Thailand: importance of access to healthcare. *Br J Ophthalmol*, 100, 1017-21.
- Levenfus, I., Ullmann, E., Battegay, E. & Schuurmans, M. M. 2020. Triage tool for suspected COVID-19 patients in the emergency room: AIFELL score. *Braz J Infect Dis*, 24, 458-461.
- Lin, Y. D., Garner, S. E., Lau, J. S. Y., Korman, T. M. & Woolley, I. J. 2019. Prevalence of HIV indicator conditions in late presenting patients with HIV: a missed opportunity for diagnosis? *QJM*, 112, 17-21.
- Lindoso, J. A. L., Moreira, C. H. V., Cunha, M. A. & Queiroz, I. T. 2018. Visceral leishmaniasis and HIV coinfection: current perspectives. *HIV AIDS (Auckl)*, 10, 193-201.
- Link, J. O., Rhee, M. S., Tse, W. C., Zheng, J., Somoza, J. R., Rowe, W., Begley, R., Chiu, A., Mulato, A., Hansen, D., Singer, E., Tsai, L. K., Bam, R. A., Chou, C. H., Canales, E., Brizgys, G., Zhang, J. R., Li, J., Graupe, M., Morganelli, P., Liu, Q., Wu, Q., Halcomb, R. L., Saito, R. D., Schroeder, S. D., Lazerwith, S. E., Bondy, S., Jin, D., Hung, M., Novikov, N., Liu, X., Villasenor, A. G., Cannizzaro, C. E., Hu, E. Y., Anderson, R. L., Appleby, T. C., Lu, B., Mwangi, J., Liclican, A., Niedziela-Majka, A., Papalia, G. A., Wong, M. H., Leavitt, S. A., Xu, Y., Koditek, D., Stepan, G. J., Yu, H., Pagratis, N., Clancy, S., Ahmadyar, S., Cai, T. Z., Sellers, S., Wolckenhauer, S. A., Ling, J., Callebaut, C., Margot, N., Ram, R. R., Liu, Y. P., Hyland, R., Sinclair, G. I., Ruane, P. J., Crofoot, G. E., McDonald, C. K., Brainard, D. M., Lad, L., Swaminathan, S., Sundquist, W. I., Sakowicz, R., Chester, A. E., Lee, W. E., Daar, E. S., Yant, S. R. & Cihlar, T. 2020. Clinical targeting of HIV capsid protein with a long-acting small molecule. *Nature*, 584, 614-618.
- Lisco, A., Wong, C. S., Lage, S. L., Levy, I., Brophy, J., Lennox, J., Manion, M., Anderson, M. V., Mejia, Y., Grivas, C., Mystakelis, H., Burbelo, P. D., Perez-Diez, A., Rupert, A., Martens, C. A., Anzick, S. L., Morse, C., Chan, S., Deleage, C. & Sereti, I. 2019. Identification of rare HIV-1-infected patients with extreme CD4+ T cell decline despite ART-mediated viral suppression. *JCI Insight*, 4.
- Liu, H., Wei, P., Zhang, Q., Aviszus, K., Linderberger, J., Yang, J., Liu, J., Chen, Z., Waheed, H., Reynoso, L., Downey, G. P., Frankel, S. K., Kappler, J., Marrack, P. & Zhang, G. 2021.

- The Lambda variant of SARS-CoV-2 has a better chance than the Delta variant to escape vaccines. *bioRxiv*.
- Liu, L., Zhang, R., Tang, Y., Qi, T., Song, W., Wang, Z., Shen, Y. & Lu, H. 2018. The importance of non-tuberculous mycobacteria identification in Chinese patients infected with HIV. *Biosci Trends*, 12, 515-516.
- Liu, Q., Wang, Z. D., Huang, S. Y. & Zhu, X. Q. 2015. Diagnosis of toxoplasmosis and typing of *Toxoplasma gondii*. *Parasit Vectors*, 8, 292.
- Liu, T. T., Wilson, D., Dawood, H., Cameron, D. W. & Alvarez, G. G. 2012. Inaccuracy of death certificate diagnosis of tuberculosis and potential underdiagnosis of TB in a region of high HIV prevalence. *Clin Dev Immunol*, 2012, 937013.
- Ljubojevic Hadzavdic, S., Kovacevic, M., Skerlev, M. & Zekan, S. 2018. Genital Herpes Zoster as Possible Indicator of HIV Infection. *Acta Dermatovenerol Croat*, 26, 337-338.
- Logie, C., James, L., Tharao, W. & Loutfy, M. 2013. Associations between HIV-related stigma, racial discrimination, gender discrimination, and depression among HIV-positive African, Caribbean, and Black women in Ontario, Canada. *AIDS Patient Care STDS*, 27, 114-22.
- London, R. E. 2019. HIV-1 Reverse Transcriptase: A Metamorphic Protein with Three Stable States. *Structure*, 27, 420-426.
- Longo-Mbenza, B., Seghers, K. V., Phuati, M., Bikangi, F. N. & Mubagwa, K. 1998. Heart involvement and HIV infection in African patients: determinants of survival. *Int J Cardiol*, 64, 63-73.
- Lukehart, S. A., Hook, E. W., 3rd, Baker-Zander, S. A., Collier, A. C., Critchlow, C. W. & Handsfield, H. H. 1988. Invasion of the central nervous system by *Treponema pallidum*: implications for diagnosis and treatment. *Ann Intern Med*, 109, 855-62.
- Ly, T. D., Ebel, A., Faucher, V., Fihman, V. & Laperche, S. 2007. Could the new HIV combined p24 antigen and antibody assays replace p24 antigen specific assays? *J Virol Methods*, 143, 86-94.
- Macedo, P. M., Almeida-Paes, R., Almeida, M. A., Coelho, R. A., Andrade, H. B., Ferreira, A., Zancoppe-Oliveira, R. M. & Valle, A. 2018. Paracoccidioidomycosis due to *Paracoccidioides brasiliensis* S1 plus HIV co-infection. *Mem Inst Oswaldo Cruz*, 113, 167-172.
- Madhavi, V., Wines, B. D., Amin, J., Emery, S., Group, E. S., Lopez, E., Kelleher, A., Sydney, L. S. G., Center, R. J., Hogarth, P. M., Chung, A. W., Kent, S. J. & Stratov, I. 2017. HIV-1 Env- and Vpu-Specific Antibody-Dependent Cellular Cytotoxicity Responses Associated with Elite Control of HIV. *J Virol*, 91.
- Maemun, S., Mariana, N., Rusli, A., Mahkota, R. & Purnama, T. B. 2020. Early Initiation of ARV Therapy Among TB-HIV Patients in Indonesia Prolongs Survival Rates! *J Epidemiol Glob Health*, 10, 164-167.
- Maimaiti, R., Zhang, Y., Pan, K., Mijiti, P., Wubili, M., Musa, M. & Andersson, R. 2017. High prevalence and low cure rate of tuberculosis among patients with HIV in Xinjiang, China. *BMC Infect Dis*, 17, 15.
- Maine, G. N., Lao, K. M., Krishnan, S. M., Afolayan-Oloye, O., Fatemi, S., Kumar, S., VanHorn, L., Hurand, A., Sykes, E. & Sun, Q. 2020. Longitudinal characterization of the IgM and IgG humoral response in symptomatic COVID-19 patients using the Abbott Architect. *J Clin Virol*, 133, 104663.
- Majid, N., Bollen, L., Morineau, G., Daily, S. F., Mustikawati, D. E., Agus, N., Anartati, A. S., Natpratan, C. & Magnani, R. 2010. Syphilis among female sex workers in Indonesia: need and opportunity for intervention. *Sex Transm Infect*, 86, 377-83.
- Manga, P., McCutcheon, K., Tsabedze, N., Vachiat, A. & Zachariah, D. 2017. HIV and Nonischemic Heart Disease. *J Am Coll Cardiol*, 69, 83-91.
- Marchionatti, A. & Parisi, M. M. 2021. Anemia and thrombocytopenia in people living with HIV/AIDS: a narrative literature review. *Int Health*, 13, 98-109.
- Margolis, T. P., Imai, Y., Yang, L., Vallas, V. & Krause, P. R. 2007. Herpes simplex virus type 2 (HSV-2) establishes latent infection in a different population of ganglionic neurons than HSV-1: role of latency-associated transcripts. *J Virol*, 81, 1872-8.

- Margot, N., Ram, R., McNicholl, I., Haubrich, R. & Callebaut, C. 2020. Differential detection of M184V/I between plasma historical HIV genotypes and HIV proviral DNA from PBMCs. *J Antimicrob Chemother*, 75, 2249-2252.
- Marino, A., Caltabiano, E., Zagami, A., Onorante, A., Zappala, C., Locatelli, M. E., Pampaloni, A., Scuderi, D., Bruno, R. & Cacopardo, B. 2018. Rapid emergence of cryptococcal fungemia, *Mycobacterium chelonae* vertebral osteomyelitis and gastro intestinal stromal tumor in a young HIV late presenter: a case report. *BMC Infect Dis*, 18, 693.
- Marques, S. A., Robles, A. M., Tortorano, A. M., Tuculet, M. A., Negroni, R. & Mendes, R. P. 2000. Mycoses associated with AIDS in the Third World. *Med Mycol*, 38 Suppl 1, 269-79.
- Martin-Onraet, A., Volkow-Fernandez, P., Alvarez-Wyssmann, V., Gonzalez-Rodriguez, A., Casillas-Rodriguez, J., Rivera-Abarca, L., Torres-Escobar, I. & Sierra-Madero, J. 2017. Late Diagnosis Due to Missed Opportunities and Inadequate Screening Strategies in HIV Infected Mexican Women. *AIDS Behav*, 21, 505-514.
- Masouredis, C. M., Katz, M. H., Greenspan, D., Herrera, C., Hollander, H., Greenspan, J. S. & Winkler, J. R. 1992. Prevalence of HIV-associated periodontitis and gingivitis in HIV-infected patients attending an AIDS clinic. *J Acquir Immune Defic Syndr (1988)*, 5, 479-83.
- Mastroianni, A., Gaibani, P., Rossini, G., Vocale, C., Re, M. C., Ravaglia, G., Sambri, V. & Varani, S. 2018. Two cases of relapsed HIV-associated visceral leishmaniasis successfully treated with combination therapy. *AIDS Res Ther*, 15, 27.
- Mathewson, J. J., Salameh, B. M., DuPont, H. L., Jiang, Z. D., Nelson, A. C., Arduino, R., Smith, M. A. & Masozera, N. 1998. HEp-2 cell-adherent *Escherichia coli* and intestinal secretory immune response to human immunodeficiency virus (HIV) in outpatients with HIV-associated diarrhea. *Clin Diagn Lab Immunol*, 5, 87-90.
- Matoga, M., Hosseinipour, M. C., Jewett, S., Hoffman, I. F. & Chasela, C. 2021. Effects of HIV voluntary medical male circumcision programs on sexually transmitted infections. *Curr Opin Infect Dis*, 34, 50-55.
- Mayaphi, S. H., Martin, D. J., Quinn, T. C. & Stoltz, A. C. 2019. Vertical transmission of HIV among pregnant women who initially had false-negative rapid HIV tests in four South African antenatal clinics. *PLoS One*, 14, e0226391.
- Mbengue, M. A. S., Sarr, S. O., Diop, A., Ndour, C. T., Ndiaye, B. & Mboup, S. 2019. Prevalence and determinants of adherence to antiretroviral treatment among HIV patients on first-line regimen: a cross-sectional study in Dakar, Senegal. *Pan Afr Med J*, 33, 95.
- Mbu, E. T., Sauter, F., Zoufaly, A., Bronsvort, B. M. C., Morgan, K. L., Noeske, J., Abena, J. F. & Sander, M. S. 2018. Tuberculosis in people newly diagnosed with HIV at a large HIV care and treatment center in Northwest Cameroon: Burden, comparative screening and diagnostic yields, and patient outcomes. *PLoS One*, 13, e0199634.
- McCarthy, K. D., Cain, K. P., Winthrop, K. L., Udomsantisuk, N., Lan, N. T., Sar, B., Kimerling, M. E., Kanara, N., Lynen, L., Monkongdee, P., Tasaneeyapan, T. & Varma, J. K. 2012. Nontuberculous mycobacterial disease in patients with HIV in Southeast Asia. *Am J Respir Crit Care Med*, 185, 981-8.
- McClymont, E., Lee, M., Raboud, J., Coutlee, F., Walmsley, S., Lipsky, N., Loutfy, M., Trottier, S., Smaill, F., Klein, M. B., Harris, M., Cohen, J., Yudin, M. H., Wobeser, W. & Money, D. 2020. Prevalent and persistent oncogenic HPV types in a cohort of women living with HIV prior to HPV vaccination. *Int J Gynaecol Obstet*, 150, 108-115.
- Medina, A. M., Rivera, F. P., Romero, L. M., Kolevic, L. A., Castillo, M. E., Verne, E., Hernandez, R., Mayor, Y. E., Barletta, F., Mercado, E. & Ochoa, T. J. 2010. Diarrheagenic *Escherichia coli* in human immunodeficiency virus (HIV) pediatric patients in Lima, Peru. *Am J Trop Med Hyg*, 83, 158-63.
- Medrano, F. J., Montes-Cano, M., Conde, M., de la Horra, C., Respaldiza, N., Gasch, A., Perez-Lozano, M. J., Varela, J. M. & Calderon, E. J. 2005. *Pneumocystis jirovecii* in general population. *Emerg Infect Dis*, 11, 245-50.
- Meira, L., Chaves, C., Araujo, D., Almeida, L., Boaventura, R., Ramos, A., Carvalho, T., Osorio, N. S., Castro, A. G., Rodrigues, F., Guimaraes, J. T., Saraiva, M. & Bastos, H. N. 2019. Predictors and outcomes of disseminated tuberculosis in an intermediate burden setting. *Pulmonology*, 25, 320-327.

- Mendes-Bastos, P., Bras, S. & Carvalho, R. 2018. A fast-growing cold skin abscess revealing disseminated Mycobacterium intracellulare infection in an HIV-infected patient. *Int J STD AIDS*, 29, 720-722.
- Mertaniasih, N. M., Soedarsono, Kusmiati, T., Koendhori, E. B., Kusumaningrum, D., Koespriyani, Sulistyowati, T., Nuha, Z. & Chanifah, H. 2020. Difficulties with the implemented xpert MTB/RIF for determining diagnosis of pulmonary and extrapulmonary tuberculosis in adults and children. *J Clin Tuberc Other Mycobact Dis*, 19, 100159.
- Mesri, E. A., Cesarman, E. & Boshoff, C. 2010. Kaposi's sarcoma and its associated herpesvirus. *Nat Rev Cancer*, 10, 707-19.
- Meybeck, A., Tetart, M., Baclet, V., Alcaraz, I., Blondiaux, N., Peytavin, G., Veyziris, N., Robineau, O. & Senneville, E. 2021. A disseminated Mycobacterium marinum infection in a renal transplant HIV-infected patient successfully treated with a bedaquiline-containing antimycobacterial treatment: A case report. *Int J Infect Dis*, 107, 176-178.
- Millian, S. J. & Wegman, D. 1972. Rubella serology: applications, limitations and interpretations. *Am J Public Health*, 62, 170-6.
- Mills, O. F. & Saradarian, K. A. 1991. Reiter's syndrome and HIV infection. *J Fam Pract*, 33, 294-6.
- Mishore, K. M., Hussein, N. & Huluka, S. A. 2020. Hospitalization and Predictors of Inpatient Mortality among HIV-Infected Patients in Jimma University Specialized Hospital, Jimma, Ethiopia: Prospective Observational Study. *AIDS Res Treat*, 2020, 1872358.
- Mitiku, H., Weldegebreal, F., Marami, D. & Teklemariam, Z. 2019. Nontyphoidal Salmonella bacteremia in antiretroviral therapy-naïve HIV-infected individuals at three public hospitals in Eastern Ethiopia: prevalence, antimicrobial susceptibility patterns, and associated factors. *HIV AIDS (Auckl)*, 11, 23-29.
- Mohamed, A., Bakir, T., Al-Hawel, H., Al-Sharif, I., Bakheet, R., Kouser, L., Murugaiah, V. & Al-Mozaini, M. 2021. HIV-2 Vpx neutralizes host restriction factor SAMHD1 to promote viral pathogenesis. *Sci Rep*, 11, 20984.
- Mohammadi, Y., Mirzaei, M., Shirmohammadi-Khorram, N. & Farhadian, M. 2021. Identifying risk factors for late HIV diagnosis and survival analysis of people living with HIV/AIDS in Iran (1987-2016). *BMC Infect Dis*, 21, 390.
- Mohammed, H., Assefa, N. & Mengistie, B. 2018. Prevalence of extrapulmonary tuberculosis among people living with HIV/AIDS in sub-Saharan Africa: a systemic review and meta-analysis. *HIV AIDS (Auckl)*, 10, 225-237.
- Mohammed, R., Fikre, H., Schuster, A., Mekonnen, T., van Griensven, J. & Diro, E. 2020. Multiple Relapses of Visceral Leishmaniasis in HIV Co-Infected Patients: A Case Series from Ethiopia. *Curr Ther Res Clin Exp*, 92, 100583.
- Monsuez, J. J., Escaut, L., Teicher, E., Charniot, J. C. & Vittecoq, D. 2007. Cytokines in HIV-associated cardiomyopathy. *Int J Cardiol*, 120, 150-7.
- Monzani, V., Cordoba, S., Vivot, M., Arias, B., Vivot, W., Szusz, W., Castellaro, P., Appendino, A. & Taverna, C. G. 2020. A case report of catheter-related bloodstream infection due to Trichosporon coremiiforme in a patient with secondary neutropenia to HIV. *J Mycol Med*, 30, 100916.
- Morgan-Capner, P., Hodgson, J., Hambling, M. H., Dulake, C., Coleman, T. J., Boswell, P. A., Watkins, R. P., Booth, J., Stern, H., Best, J. M. & et al. 1985. Detection of rubella-specific IgM in subclinical rubella reinfection in pregnancy. *Lancet*, 1, 244-6.
- Mtshali, A., Ngcapu, S., Osman, F., Garrett, N., Singh, R., Rompalo, A., Mindel, A. & Liebenberg, L. J. P. 2021. Genital HSV-1 DNA detection is associated with a low inflammatory profile in HIV-uninfected South African women. *Sex Transm Infect*, 97, 33-37.
- Muljono, D. H. 2017. Epidemiology of Hepatitis B and C in Republic of Indonesia. *Euroasian J Hepatogastroenterol*, 7, 55-59.
- Nachega, J. B., Marconi, V. C., van Zyl, G. U., Gardner, E. M., Preiser, W., Hong, S. Y., Mills, E. J. & Gross, R. 2011. HIV treatment adherence, drug resistance, virologic failure: evolving concepts. *Infect Disord Drug Targets*, 11, 167-74.

- Naglik, J. R., Challacombe, S. J. & Hube, B. 2003. *Candida albicans* secreted aspartyl proteinases in virulence and pathogenesis. *Microbiol Mol Biol Rev*, 67, 400-28, table of contents.
- Najmah, Andajani, S. & Davies, S. G. 2020. Perceptions of and barriers to HIV testing of women in Indonesia. *Sex Reprod Health Matters*, 28, 1848003.
- Nakou, M., Kamma, J., Gargalianos, P., Laskaris, G. & Mitsis, F. 1997. Periodontal microflora of HIV infected patients with periodontitis. *Anaerobe*, 3, 97-102.
- Narendran, G., Jyotheeswaran, K., Senguttuvan, T., Vinhaes, C. L., Santhanakrishnan, R. K., Manoharan, T., Selvaraj, A., Chandrasekaran, P., Menon, P. A., Bhavani, K. P., Reddy, D., Narayanan, R., Subramanyam, B., Sathyavelu, S., Krishnaraja, R., Kalirajan, P., Angamuthu, D., Susaimuthu, S. M., Ganesan, R. R. K., Tripathy, S. P., Swaminathan, S. & Andrade, B. B. 2020. Characteristics of paradoxical tuberculosis-associated immune reconstitution inflammatory syndrome and its influence on tuberculosis treatment outcomes in persons living with HIV. *Int J Infect Dis*, 98, 261-267.
- Nascimento, E., Bariao, P. H. G., Kress, M., Vilar, F. C., Santana, R. C., Gaspar, G. G. & Martinez, R. 2021. Cryptococcosis by *Cryptococcus neoformans*/*Cryptococcus gattii* Species Complexes in non-HIV-Infected Patients in Southeastern Brazil. *Rev Soc Bras Med Trop*, 54, e01692021.
- Nath, P., Kabir, M. A., Doust, S. K. & Ray, A. 2021. Diagnosis of Herpes Simplex Virus: Laboratory and Point-of-Care Techniques. *Infect Dis Rep*, 13, 518-539.
- Navti, O. B., Al-Belushi, M., Konje, J. C. & Frcog 2021. Cytomegalovirus infection in pregnancy - An update. *Eur J Obstet Gynecol Reprod Biol*, 258, 216-222.
- Nielsen, C., Pedersen, C., Lundgren, J. D. & Gerstoft, J. 1993. Biological properties of HIV isolates in primary HIV infection: consequences for the subsequent course of infection. *AIDS*, 7, 1035-40.
- Noguera-Julian, M., Guillen, Y., Peterson, J., Reznik, D., Harris, E. V., Joseph, S. J., Rivera, J., Kannanganat, S., Amara, R., Nguyen, M. L., Mutembo, S., Paredes, R., Read, T. D. & Marconi, V. C. 2017. Oral microbiome in HIV-associated periodontitis. *Medicine (Baltimore)*, 96, e5821.
- Nugraha, A. A., Pudjiati, A. S. R. & Rusetiyanti, N. 2017. Hubungan Stadium Klinis Infeksi HIV dan Manifestasi Mukokutan (Kajian pada Penderita Infeksi HIV di RSUP Dr. Sardjito Yogyakarta). . Yogyakarta: Fakultas Kedokteran, Universitas Gadjah Mada.
- Nunez Fernandez, M. J., Ojea de Castro, R., Anibarro Garcia, L. & Pascual Duran, A. 2002. [Disseminated infection by *Mycobacterium scrofulaceum* in an infected HIV patient]. *An Med Interna*, 19, 381-2.
- Nunez, M., Rios, P., Perez-Olmeda, M. & Soriano, V. 2002. Lack of 'occult' hepatitis B virus infection in HIV-infected patients. *AIDS*, 16, 2099-101.
- NVivo. 2021. *Coding Comparison Query* [Online]. Available: <https://help-nv.qsrinternational.com/12/win/v12.1.97-d3ea61/Content/queries/coding-comparison-query.htm> [Accessed Jan 19, 2021].
- O'Donnell, M. R., Pym, A., Jain, P., Munsamy, V., Wolf, A., Karim, F., Jacobs, W. R., Jr. & Larsen, M. H. 2015. A Novel Reporter Phage To Detect Tuberculosis and Rifampin Resistance in a High-HIV-Burden Population. *J Clin Microbiol*, 53, 2188-94.
- O'Halloran Leach, E., Lu, H., Caballero, J., Thomas, J. E., Spencer, E. C. & Cook, R. L. 2021. Defining the optimal cut-point of self-reported ART adherence to achieve viral suppression in the era of contemporary HIV therapy: a cross-sectional study. *AIDS Res Ther*, 18, 36.
- Odero, R. O., Lacasse, A., Mazumder, S., Gelfand, M. S. & Cleveland, K. O. 2009. Trichosporon asahii infection in an HIV-positive patient. *AIDS*, 23, 1027-9.
- Ogata, T., Murooka, M., Akashi, M., Ishitsuka, A., Miyazaki, A., Osawa, S., Ishikawa, K., Tanaka-Taya, K. & Uehara, R. 2021. The period from prodromal fever onset to rash onset in laboratory-confirmed rubella cases: a cross-sectional study. *BMC Infect Dis*, 21, 442.
- Ojuawo, O., Htwe, T., Thein, O. S. & Sahal, A. 2021. Pneumocystis pneumonia causing cavitating lung nodules in an immunocompetent individual. *BMJ Case Rep*, 14.
- Okurut, S., Boulware, D. R., Olobo, J. & Meya, D. B. 2020. Landmark clinical observations and immunopathogenesis pathways linked to HIV and *Cryptococcus* fatal central nervous system co-infection. *Mycoses*, 63, 840-853.

- Onono, M., Odwar, T., Abuogi, L., Owuor, K., Helova, A., Bukusi, E., Turan, J. & Hampanda, K. 2020. Effects of Depression, Stigma and Intimate Partner Violence on Postpartum Women's Adherence and Engagement in HIV Care in Kenya. *AIDS Behav*, 24, 1807-1815.
- Pangarungan, R., Arguni, E. & Indrawati, R. 2017. *Faktor Prognostik Gagal Terapi Virologi pada Pasien HIV Anak dalam Terapi Antiretroviral Lini Pertama di Yogyakarta. Tesis S2 Ilmu Kedokteran Klinik, FK-KMK UGM*. Master, Universitas Gadjah Mada.
- Patton, L. L. & McKaig, R. 1998. Rapid progression of bone loss in HIV-associated necrotizing ulcerative stomatitis. *J Periodontol*, 69, 710-6.
- Pearce, J., Sheridan, R., Shaw, J. & Senior, T. 2021. Diffuse encephalitic toxoplasmosis in HIV. *BMJ Case Rep*, 14.
- Perwitasari, D., Laksanawati, I. S. & Gamayanti, I. L. 2016. *Infeksi Human Immunodeficiency virus dan Tuberkulosis Paru*. . Specialist of Peditary, Universitas Gadjah Mada.
- Petrakis, V., Panagopoulos, P., Maltsan, T., Xanthopoulou, A. M., Terzi, I., Papanas, N., Maltezos, E. & Papazoglou, D. 2020. Late Presenters of HIV Infection in an HIV Unit of a Tertiary University Hospital in a Rural Region of Greece. *AIDS Res Hum Retroviruses*, 36, 601-605.
- Pinto, M. & Dobson, S. 2014. BK and JC virus: a review. *J Infect*, 68 Suppl 1, S2-8.
- Piot, P. & Colebunders, R. 1987. Clinical manifestations and the natural history of HIV infection in adults. *West J Med*, 147, 709-12.
- Pisani, E., Girault, P., Gultom, M., Sukartini, N., Kumalawati, J., Jazan, S. & Donegan, E. 2004. HIV, syphilis infection, and sexual practices among transgenders, male sex workers, and other men who have sex with men in Jakarta, Indonesia. *Sex Transm Infect*, 80, 536-40.
- Pisaturo, M., Onorato, L., Russo, A. & Coppola, N. 2020. Prevalence of occult HBV infection in Western countries. *J Med Virol*.
- Pope, C. F. & Mays, N. 2008. *Qualitative Research in Health Care*, Blackwell Publishing for BMJ Books.
- Popova, G., Boskovska, K., Arnaudova-Danevska, I., Smilevska-Spasova, O. & Jakovska, T. 2019. Sputum Quality Assessment Regarding Sputum Culture for Diagnosing Lower Respiratory Tract Infections in Children. *Open Access Maced J Med Sci*, 7, 1926-1930.
- Pozzan, G., Pagliari, C., Tuon, F. F., Takakura, C. F., Kauffman, M. R. & Duarte, M. I. 2009. Diffuse-regressive alterations and apoptosis of myocytes: possible causes of myocardial dysfunction in HIV-related cardiomyopathy. *Int J Cardiol*, 132, 90-5.
- Prabhu, S., Harwell, J. I. & Kumarasamy, N. 2019. Advanced HIV: diagnosis, treatment, and prevention. *Lancet HIV*, 6, e540-e551.
- Prince, H. E. & Lape-Nixon, M. 2014. Role of cytomegalovirus (CMV) IgG avidity testing in diagnosing primary CMV infection during pregnancy. *Clin Vaccine Immunol*, 21, 1377-84.
- Priyadarshi, M., Arora, U. & Jorwal, P. 2021. Toxoplasmosis and tuberculosis: brain lesions in HIV/AIDS differentiated by response to therapy. *BMJ Case Rep*, 14.
- Putatunda, R., Ho, W. Z. & Hu, W. 2019. HIV-1 and Compromised Adult Neurogenesis: Emerging Evidence for a New Paradigm of HAND Persistence. *AIDS Rev*, 21, 11-22.
- Qiao, X., He, B., Chiu, A., Knowles, D. M., Chadburn, A. & Cerutti, A. 2006. Human immunodeficiency virus 1 Nef suppresses CD40-dependent immunoglobulin class switching in bystander B cells. *Nat Immunol*, 7, 302-10.
- Rafat, Z., Ashrafi, K., Hashemi, S. J., Sasani, E., Naserani, A., Sarvestani, H. K. & Hashemi, F. 2021. The mycological and molecular study of *Pneumocystis jirovecii* pneumonia among HIV and non-HIV immunocompromised patients hospitalized in pulmonary units in Guilan, Northern Iran. *Iran J Microbiol*, 13, 518-524.
- Raffetti, E., Postorino, M. C., Castelli, F., Casari, S., Castelnovo, F., Maggiolo, F., Di Filippo, E., D'Avino, A., Gori, A., Ladisa, N., Di Pietro, M., Sighinolfi, L., Zacchi, F. & Torti, C. 2016. The risk of late or advanced presentation of HIV infected patients is still high, associated factors evolve but impact on overall mortality is vanishing over calendar years: results from the Italian MASTER Cohort. *BMC Public Health*, 16, 878.
- Ramoutar, V., Makary, R., Ravi, M., James, L. & Heilig, C. 2020. Liberation from Dialysis Dependence in a Patient with HIV-Associated Nephropathy (HIVAN) after Combined Antiretroviral Therapy (cART). *Case Rep Nephrol*, 2020, 7294765.
- Rathee, M. & Jain, P. 2021. Hairy Leukoplakia. *StatPearls*. Treasure Island (FL).

- Reiter, G. S. 1996. The HIV wasting syndrome. *AIDS Clin Care*, 8, 89-91, 93, 96.
- Resnick, L., Herbst, J. S. & Raab-Traub, N. 1990. Oral hairy leukoplakia. *J Am Acad Dermatol*, 22, 1278-82.
- Rhoads, D. D. & Pinsky, B. A. 2021. The truth about SARS-CoV-2 cycle threshold values is rarely pure and never simple. *Clin Chem*.
- Rianti, M., Subronto, Y. W. & Nirwati, H. 2019. Antibiotic susceptibility patterns of Gastrointestinal Bacteria Isolated in HIV/AIDS Patients in Dr. Sarjito Referral Hospital. S. Yogyakarta: Fakultas Kedokteran, Universitas Gadjah Mada.
- Richard, J. & Cohen, E. A. 2010. HIV-1 Vpu disarms natural killer cells. *Cell Host Microbe*, 8, 389-91.
- Rodrigues, R. J., Antony, J., Krishnamurthy, S., Shet, A. & De Costa, A. 2013. 'What do I know? Should I participate?' Considerations on participation in HIV related research among HIV infected adults in Bangalore, South India. *PLoS One*, 8, e53054.
- Rolland, M., Tovanabutra, S., Dearlove, B., Li, Y., Owen, C. L., Lewitus, E., Sanders-Buell, E., Bose, M., O'Sullivan, A., Rossenkhan, R., Labuschagne, J. P. L., Edlefsen, P. T., Reeves, D. B., Kijak, G., Miller, S., Poltavee, K., Lee, J., Bonar, L., Harbolick, E., Ahani, B., Pham, P., Kibuuka, H., Maganga, L., Nitayaphan, S., Sawe, F. K., Eller, L. A., Gramzinski, R., Kim, J. H., Michael, N. L., Robb, M. L. & Team, R. V. S. 2020. Molecular dating and viral load growth rates suggested that the eclipse phase lasted about a week in HIV-1 infected adults in East Africa and Thailand. *PLoS Pathog*, 16, e1008179.
- Rooney, G., Nelson, M. R. & Gazzard, B. 1996. Mycobacterium kansasii: its presentation, treatment and outcome in HIV infected patients. *J Clin Pathol*, 49, 821-3.
- Rosenbloom, D. I. S., Hill, A. L., Laskey, S. B. & Siliciano, R. F. 2017. Re-evaluating evolution in the HIV reservoir. *Nature*, 551, E6-E9.
- Ross, S. A., Novak, Z., Pati, S. & Boppana, S. B. 2011. Overview of the diagnosis of cytomegalovirus infection. *Infect Disord Drug Targets*, 11, 466-74.
- Rostami, A., Karanis, P. & Fallahi, S. 2018. Advances in serological, imaging techniques and molecular diagnosis of Toxoplasma gondii infection. *Infection*, 46, 303-315.
- Roux, A., Canet, E., Valade, S., Gangneux-Robert, F., Hamane, S., Lafabrie, A., Maubon, D., Debourgogne, A., Le Gal, S., Dalle, F., Leterrier, M., Toubas, D., Pomares, C., Bellanger, A. P., Bonhomme, J., Berry, A., Durand-Joly, I., Magne, D., Pons, D., Hennequin, C., Maury, E., Roux, P. & Azoulay, E. 2014. Pneumocystis jirovecii pneumonia in patients with or without AIDS, France. *Emerg Infect Dis*, 20, 1490-7.
- Saadatnia, G. & Golkar, M. 2012. A review on human toxoplasmosis. *Scand J Infect Dis*, 44, 805-14.
- Saag, M. S., Benson, C. A., Gandhi, R. T., Hoy, J. F., Landovitz, R. J., Mugavero, M. J., Sax, P. E., Smith, D. M., Thompson, M. A., Buchbinder, S. P., Del Rio, C., Eron, J. J., Jr., Fatkenheuer, G., Gunthard, H. F., Molina, J. M., Jacobsen, D. M. & Volberding, P. A. 2018. Antiretroviral Drugs for Treatment and Prevention of HIV Infection in Adults: 2018 Recommendations of the International Antiviral Society-USA Panel. *JAMA*, 320, 379-396.
- Salam, A. P. & Pozniak, A. L. 2017. Disseminated aspergillosis in an HIV-positive cannabis user taking steroid treatment. *Lancet Infect Dis*, 17, 882.
- Saling, C., Slim, J. & Szabela, M. E. 2019. A case of an atypical resistant granulomatous HSV-1 and HSV-2 ulceration in an AIDS patient treated with intralesional cidofovir. *SAGE Open Med Case Rep*, 7, 2050313X19847029.
- Santos, G. O., Jesus, N. P. S., Cerqueira-Braz, J. V., Santos, V. S. & Lemos, L. M. D. 2019. Prevalence of HIV and associated factors among visceral leishmaniasis cases in an endemic area of Northeast Brazil. *Rev Soc Bras Med Trop*, 52, e20180257.
- Santos, L. S. D., Sant'Anna, L. O. & Araujo, M. R. B. 2021. Pneumocystis jirovecii pneumonia in a patient with HIV infection: complex diagnosis using Giemsa-stained bronchoalveolar lavage fluid. *Rev Soc Bras Med Trop*, 54, e0150 2020.
- Sarkar, A., Bale, S., Behrens, A. J., Kumar, S., Sharma, S. K., de Val, N., Pallesen, J., Irimia, A., Diwanji, D. C., Stanfield, R. L., Ward, A. B., Crispin, M., Wyatt, R. T. & Wilson, I. A. 2018. Structure of a cleavage-independent HIV Env recapitulates the glycoprotein architecture of the native cleaved trimer. *Nat Commun*, 9, 1956.

- Sauter, D. & Kirchhoff, F. 2019. Key Viral Adaptations Preceding the AIDS Pandemic. *Cell Host Microbe*, 25, 27-38.
- Schasfoort, R. B. M., van Weperen, J., van Amsterdam, M., Parisot, J., Hendriks, J., Koerselman, M., Karperien, M., Mentink, A., Bennink, M., Krabbe, H., Terstappen, L. W. & Mulder, A. H. L. 2021. Presence and strength of binding of IgM, IgG and IgA antibodies against SARS-CoV-2 during CoViD-19 infection. *Biosens Bioelectron*, 183, 113165.
- Schmidt, W., Schneider, T., Heise, W., Weinke, T., pple, H. J., Stoffler-Meilicke, M., Liesenfeld, O., Ignatius, R., Zeitz, M., Riecken, E. O. & Ullrich, R. 1996. Stool viruses, coinfections, and diarrhea in HIV-infected patients. Berlin Diarrhea/Wasting Syndrome Study Group. *J Acquir Immune Defic Syndr Hum Retrovirol*, 13, 33-8.
- Schoch, C. L., Ciuffo, S., Domrachev, M., Hotton, C. L., Kannan, S., Khovanskaya, R., Leipe, D., McVeigh, R., O'Neill, K., Robbertse, B., Sharma, S., Soussov, V., Sullivan, J. P., Sun, L., Turner, S. & Karsch-Mizrachi, I. 2020. NCBI Taxonomy: a comprehensive update on curation, resources and tools. *Database (Oxford)*, 2020.
- Scully, R. E., Mark, E. J., McNeely, W. F. & McNeely, B. U. 1992. Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 44-1992. A 60-year-old man with HIV infection, persistent diarrhea, and intractable respiratory failure. *N Engl J Med*, 327, 1370-6.
- Seaton, K. E., Deal, A., Han, X., Li, S. S., Clayton, A., Heptinstall, J., Duerr, A., Allen, M. A., Shen, X., Sawant, S., Yates, N. L., Spearman, P., Churchyard, G., Goepfert, P. A., Maenza, J., Gray, G., Pantaleo, G., Polakowski, L., Robinson, H. L., Grant, S., Randhawa, A. K., Huang, Y., Morgan, C., Grunenberg, N., Karuna, S., Gilbert, P. B., McElrath, M. J., Huang, Y., Tomaras, G. D. & Niaid Hiv Vaccine Trials Network, S. T. 2021. Meta-analysis of HIV-1 vaccine elicited mucosal antibodies in humans. *NPJ Vaccines*, 6, 56.
- Secemsky, E. A., Scherzer, R., Nitta, E., Wu, A. H., Lange, D. C., Deeks, S. G., Martin, J. N., Snider, J., Ganz, P. & Hsue, P. Y. 2015. Novel Biomarkers of Cardiac Stress, Cardiovascular Dysfunction, and Outcomes in HIV-Infected Individuals. *JACC Heart Fail*, 3, 591-9.
- Shafer, R. W. & Sierra, M. F. 1992. Mycobacterium xenopi, Mycobacterium fortuitum, Mycobacterium kansasii, and other nontuberculous mycobacteria in an area of endemicity for AIDS. *Clin Infect Dis*, 15, 161-2.
- Shah, R., Bag, A. K., Chapman, P. R. & Cure, J. K. 2010. Imaging manifestations of progressive multifocal leukoencephalopathy. *Clin Radiol*, 65, 431-9.
- Shangase, L., Feller, L. & Blignaut, E. 2004. Necrotising ulcerative gingivitis/periodontitis as indicators of HIV-infection. *SADJ*, 59, 105-8.
- Sharma, K., Mewara, A., Gupta, N., Sharma, A. & Varma, S. 2015. Multiplex PCR in diagnosis of M. tuberculosis and M. avium co-infection from lymph node in an AIDS patient. *Indian J Med Microbiol*, 33 Suppl, 151-3.
- Sharp, P. M. & Hahn, B. H. 2011. Origins of HIV and the AIDS pandemic. *Cold Spring Harb Perspect Med*, 1, a006841.
- Shi, W., Zhou, L., Peng, X., Ren, H., Wang, Q., Shan, F., Zhang, Z., Liu, L. & Shi, Y. 2019. HIV-infected patients with opportunistic pulmonary infections misdiagnosed as lung cancers: the clinicoradiologic features and initial application of CT radiomics. *J Thorac Dis*, 11, 2274-2286.
- Shukla, E. & Chauhan, R. 2019. Host-HIV-1 Interactome: A Quest for Novel Therapeutic Intervention. *Cells*, 8.
- Sierra-Madero, J. G., Ellenberg, S., Rassool, M. S., Tierney, A., Belaunzaran-Zamudio, P. F., Lopez-Martinez, A., Pineirua-Menendez, A., Montaner, L. J., Azzoni, L., Benitez, C. R., Sereti, I., Andrade-Villanueva, J., Mosqueda-Gomez, J. L., Rodriguez, B., Sanne, I., Lederman, M. M. & team, C. s. 2014. A Randomized, Double-Blind, Placebo-Controlled Clinical Trial of a Chemokine Receptor 5 (CCR5) Antagonist to Decrease the Occurrence of Immune Reconstitution Inflammatory Syndrome in HIV-Infection: The CADIRIS Study. *Lancet HIV*, 1, e60-e67.

- Silva de Lima, U. R., Vanolli, L., Moraes, E. C., Ithamar, J. S. & Azevedo, C. 2019. Visceral leishmaniasis in Northeast Brazil: What is the impact of HIV on this protozoan infection? *PLoS One*, 14, e0225875.
- Simms, J. R., Heath, A. W., Richardson, V. J. & Jennings, R. 1998. Humoral response to HSV-1 subunit vaccines--a statistical analysis. *Dev Biol Stand*, 92, 335-40.
- Sinclair, J. 2008. Human cytomegalovirus: Latency and reactivation in the myeloid lineage. *J Clin Virol*, 41, 180-5.
- Singh, K., Kumari, R., Tripathi, R., Gupta, S. & Anupurba, S. 2020. Detection of clinically important non tuberculous mycobacteria (NTM) from pulmonary samples through one-step multiplex PCR assay. *BMC Microbiol*, 20, 267.
- Singh, P. & Neumann, D. M. 2021. Cohesin subunit Rad21 binds to the HSV-1 genome near CTCF insulator sites during latency in vivo. *J Virol*.
- Sinha, A. & Feinstein, M. 2020. Epidemiology, pathophysiology, and prevention of heart failure in people with HIV. *Prog Cardiovasc Dis*, 63, 134-141.
- Sliepen, K. & Sanders, R. W. 2016. HIV-1 envelope glycoprotein immunogens to induce broadly neutralizing antibodies. *Expert Rev Vaccines*, 15, 349-65.
- Soreng, K., Levy, R. & Fakile, Y. 2014. Serologic Testing for Syphilis: Benefits and Challenges of a Reverse Algorithm. *Clin Microbiol Newsl*, 36, 195-202.
- Sorsa, A. & Kaso, M. 2021. Diagnostic performance of GeneXpert in tuberculosis-HIV co-infected patients at Asella Teaching and Referral Hospital, Southeastern Ethiopia: A cross sectional study. *PLoS One*, 16, e0242205.
- Sousa, A. E., Carneiro, J., Meier-Schellersheim, M., Grossman, Z. & Victorino, R. M. 2002. CD4 T cell depletion is linked directly to immune activation in the pathogenesis of HIV-1 and HIV-2 but only indirectly to the viral load. *J Immunol*, 169, 3400-6.
- Spener-Gomes, R., Costa, A. G., Melo, H. F., Souza, A. B., Beraldi-Magalhaes, F., Jesus, J. S., Arriaga, M. B., Kritski, A., Safe, I., Andrade, B. B., Trajman, A. & Cordeiro-Santos, M. 2021. Examination of respiratory specimens improves microbiological diagnosis of patients with presumptive extrapulmonary tuberculosis. *Int J Infect Dis*, 105, 743-745.
- Sraer, J. D. & Peraldie, M. N. 1997. [Human immunodeficiency virus and acute renal insufficiency]. *Bull Acad Natl Med*, 181, 1763-79.
- Srisuwanvilai, L. O., Monkongdee, P., Podewils, L. J., Ngamlert, K., Pobkeeree, V., Puripokai, P., Kanjanamongkolsiri, P., Subhachaturas, W., Akarasewi, P., Wells, C. D., Tappero, J. W. & Varma, J. K. 2008. Performance of the BACTEC MGIT 960 compared with solid media for detection of Mycobacterium in Bangkok, Thailand. *Diagn Microbiol Infect Dis*, 61, 402-7.
- Stamm, L. V. 2010. Global challenge of antibiotic-resistant *Treponema pallidum*. *Antimicrob Agents Chemother*, 54, 583-9.
- Stermole, B. M., Grandits, G. A., Roediger, M. P., Clark, B. M., Ganesan, A., Weintrob, A. C., Crum-Cianflone, N. F., Ferguson, T. M., Macalino, G. E. & Landrum, M. L. 2011. Long-term safety and serologic response to measles, mumps, and rubella vaccination in HIV-1 infected adults. *Vaccine*, 29, 2874-80.
- Stuehler, C., Bernardini, C., Elzi, L., Stoeckle, M., Zimmerli, S., Furrer, H., Gunthard, H. F., Leibundgut-Landmann, S., Battegay, M., Khanna, N. & Swiss, H. I. V. C. S. 2016. Immune recovery in HIV-infected patients after *Candida* esophagitis is impaired despite long-term antiretroviral therapy. *AIDS*, 30, 1923-33.
- Subramanya, V., McKay, H. S., Brusca, R. M., Palella, F. J., Kingsley, L. A., Witt, M. D., Hodis, H. N., Tracy, R. P., Post, W. S. & Haberlen, S. A. 2019. Inflammatory biomarkers and subclinical carotid atherosclerosis in HIV-infected and HIV-uninfected men in the Multicenter AIDS Cohort Study. *PLoS One*, 14, e0214735.
- Sugden, A. U., Hayes, M. & Sugden, B. 2021. How Epstein-Barr Virus and Kaposi's Sarcoma-Associated Herpesvirus Are Maintained Together to Transform the Same B-Cell. *Viruses*, 13.
- Sulaiman, H. A., Julitasari, Sie, A., Rustam, M., Melani, W., Corwin, A. & Jennings, G. B. 1995. Prevalence of hepatitis B and C viruses in healthy Indonesian blood donors. *Trans R Soc Trop Med Hyg*, 89, 167-70.

- Suryana, K., Suharsono, H. & Antara, I. 2019. Factors Associated With Adherence To Anti-Retroviral Therapy Among People Living With HIV/AIDS At Wangaya Hospital In Denpasar, Bali, Indonesia: A Cross-Sectional Study. *HIV AIDS (Auckl)*, 11, 307-312.
- Suryana, K., Suharsono, H. & Antara, I. 2020. Factors Associated with Oral Candidiasis in People Living with HIV/AIDS: A Case Control Study. *HIV AIDS (Auckl)*, 12, 33-39.
- Susanto, S., Intansari, U. S. & Triyono, T. 2019. *Rasio Sel T CD4/CD8 Pra dan enam Bulan Pasca Terapi Anti Retroviral Pada Pasien Terinfeksi Human immunodeficiency virus*. . Specialist of Clinical Pathology, Universitas Gadjah Mada.
- Symeonides, M., Murooka, T. T., Bellfy, L. N., Roy, N. H., Mempel, T. R. & Thali, M. 2015. HIV-1-Induced Small T Cell Syncytia Can Transfer Virus Particles to Target Cells through Transient Contacts. *Viruses*, 7, 6590-603.
- Tabler, J., Mykyta, L. & Nagata, J. M. 2021. The association between HIV/AIDS and food insecurity at the US-Mexico border: Experiences of low-income patients in the Rio Grande Valley. *Int J STD AIDS*, 32, 14-22.
- Talele, T. T., Upadhyay, A. & Pandey, V. N. 2009. Influence of the RNase H domain of retroviral reverse transcriptases on the metal specificity and substrate selection of their polymerase domains. *Virol J*, 6, 159.
- Tamai, I. A., Pakbin, B. & Fasaei, B. N. 2021. Genetic diversity and antifungal susceptibility of *Candida albicans* isolates from Iranian HIV-infected patients with oral candidiasis. *BMC Res Notes*, 14, 93.
- Tanaka, H., Wada, T., Ohyama, K. O. & Ishii, T. 2021. Analysis of the Time-To-Onset and Factors Affecting Clinical Outcomes of Immune Reconstitution Inflammatory Syndrome in People Living with HIV Using Data from the Japanese Spontaneous Reporting Database. *J Pharm Pharm Sci*, 24, 153-160.
- Tantale, K., Garcia-Oliver, E., Robert, M. C., L'Hostis, A., Yang, Y., Tsanov, N., Topno, R., Gostan, T., Kozulic-Pirher, A., Basu-Shrivastava, M., Mukherjee, K., Slaninova, V., Andrau, J. C., Mueller, F., Basyuk, E., Radulescu, O. & Bertrand, E. 2021. Stochastic pausing at latent HIV-1 promoters generates transcriptional bursting. *Nat Commun*, 12, 4503.
- Tarigan, Y. N., Woodman, R. J., Miller, E. R., Wisaksana, R., Wignall, F. S. & Ward, P. R. 2020. Changes in the HIV continuum of care following expanded access to HIV testing and treatment in Indonesia: A retrospective population-based cohort study. *PLoS One*, 15, e0239041.
- Teslya, A., Qesmi, R., Wu, J. & Heffernan, J. M. 2019. A threshold delay model of HIV infection of newborn infants through breastfeeding. *Infect Dis Model*, 4, 188-214.
- Thabethe, S., Slack, C., Lindegger, G., Wilkinson, A., Wassenaar, D., Kerr, P., Bekker, L. G., Mngadi, K. & Newman, P. A. 2018. "Why Don't You Go Into Suburbs? Why Are You Targeting Us?": Trust and Mistrust in HIV Vaccine Trials in South Africa. *J Empir Res Hum Res Ethics*, 13, 525-536.
- Thapa, P., Mohr, K., Campbell, K. K. & Saccente, M. 2021. Sweet Syndrome precipitated by *Mycobacterium abscessus* in a Laotian Man with Autoantibodies to Interferon Gamma. *J Investig Med High Impact Case Rep*, 9, 2324709621990771.
- Theel, E. S., Katz, S. S. & Pillay, A. 2020. Molecular and Direct Detection Tests for *Treponema pallidum* Subspecies *pallidum*: A Review of the Literature, 1964-2017. *Clin Infect Dis*, 71, S4-S12.
- Thierfelder, C., Weber, R., Elzi, L., Furrer, H., Cavassini, M., Calmy, A., Bernasconi, E., Gutmann, C., Ledergerber, B. & Swiss, H. I. V. C. S. G. 2012. Participation, characteristics and retention rates of HIV-positive immigrants in the Swiss HIV Cohort Study. *HIV Med*, 13, 118-26.
- Thomas, H. I. & Aird, H. C. 1999. Maintenance of high-avidity rubella-specific IgG antibody and titres in recent HIV seroconvertors and in patients progressing to the AIDS-related complex and AIDS. *J Med Virol*, 58, 273-9.
- Tian, L., Kim, M. S., Li, H., Wang, J. & Yang, W. 2018. Structure of HIV-1 reverse transcriptase cleaving RNA in an RNA/DNA hybrid. *Proc Natl Acad Sci U S A*, 115, 507-512.

- Tiewsoh, J. B. A., Antony, B. & Bloor, R. 2020. HIV-TB co-infection with clinical presentation, diagnosis, treatment, outcome and its relation to CD4 count, a cross-sectional study in a tertiary care hospital in coastal Karnataka. *J Family Med Prim Care*, 9, 1160-1165.
- Toizumi, M., Tanaka, S., Moriuchi, M., Nguyen, H. T., Takegata, M., Iwasaki, C., Kitamura, N., Do, H. T., Dang, D. A., Yoshida, L. M. & Moriuchi, H. 2021. Rubella seroprevalence among mothers and incidence of congenital rubella three years after rubella vaccine introduction in Vietnam. *Hum Vaccin Immunother*, 17, 3156-3161.
- Tominski, D., Katchanov, J., Driesch, D., Daley, M. B., Liedtke, A., Schneider, A., Slevogt, H., Arasteh, K. & Stocker, H. 2017. The late-presenting HIV-infected patient 30 years after the introduction of HIV testing: spectrum of opportunistic diseases and missed opportunities for early diagnosis. *HIV Med*, 18, 125-132.
- Topuzova, M. P., Chaykovskaya, A. D., Bisaga, G. N., Pavlova, T. A. & Alekseeva, T. M. 2021. [Difficulties of cerebral toxoplasmosis diagnosis in a patient with multiple sclerosis and HIV]. *Zh Nevrol Psikhiatr Im S S Korsakova*, 121, 76-80.
- Torii, Y., Yoshida, S., Yanase, Y., Mitsui, T., Horiba, K., Okumura, T., Takeuchi, S., Suzuki, T., Kawada, J. I., Kotani, T., Yamashita, M. & Ito, Y. 2019. Serological screening of immunoglobulin M and immunoglobulin G during pregnancy for predicting congenital cytomegalovirus infection. *BMC Pregnancy Childbirth*, 19, 205.
- Trible, R. P., Emert-Sedlak, L. & Smithgall, T. E. 2006. HIV-1 Nef selectively activates Src family kinases Hck, Lyn, and c-Src through direct SH3 domain interaction. *J Biol Chem*, 281, 27029-38.
- Tso, F. Y., Kang, G., Kwon, E. H., Julius, P., Li, Q., West, J. T. & Wood, C. 2018. Brain is a potential sanctuary for subtype C HIV-1 irrespective of ART treatment outcome. *PLoS One*, 13, e0201325.
- Tsurumi, S., Watanabe, T., Iwaisako, Y., Suzuki, Y., Nakano, T. & Fujimuro, M. 2021. Kaposi's sarcoma-associated herpesvirus ORF17 plays a key role in capsid maturation. *Virology*, 558, 76-85.
- Tuddenham, S., Katz, S. S. & Ghanem, K. G. 2020. Syphilis Laboratory Guidelines: Performance Characteristics of Nontreponemal Antibody Tests. *Clin Infect Dis*, 71, S21-S42.
- Turk, G. & Carobene, M. G. 2015. Deciphering How HIV-1 Intersubtype Recombination Shapes Viral Fitness and Disease Progression. *EBioMedicine*, 2, 188-9.
- Uchenwa, T. A. & Anochie, I. C. 2021. HIV-Associated Nephropathy among Children with Renal Disease in Port Harcourt, Nigeria. *West Afr J Med*, 38, 307-312.
- Ugwu, K. O., Agbo, M. C. & Ezeonu, I. M. 2021. Prevalence of Tuberculosis, Drug-Resistant Tuberculosis and Hiv/Tb Co-Infection in Enugu, Nigeria. *Afr J Infect Dis*, 15, 24-30.
- UNAIDS, UNICEF, WHO & ADB. 2019. *INDONESIA* [Online]. HIV and AIDS Data Hub For Asia pacific-EVIDENCE TO ACTION. Available: <http://aphub.unaids.org/> [Accessed 9 August 2020].
- Utami, W. S., Murhandarwati, E. H., Artama, W. T. & Kusnanto, H. 2020. Cryptosporidium Infection Increases the Risk for Chronic Diarrhea Among People Living With HIV in Southeast Asia: A Systematic Review and Meta-Analysis. *Asia Pac J Public Health*, 32, 8-18.
- Valbert, F., Wolf, E., Preis, S., Schellberg, S., Schewe, K., Hanhoff, N., Muck, B., Kogl, C., Lauscher, P., Wasem, J., Neusser, S. & Neumann, A. 2021. Understanding and avoiding late presentation for HIV diagnosis - study protocol of a trial using mixed methods (FindHIV). *AIDS Care*, 1-5.
- Van de Perre, P., Segondy, M., Foulongne, V., Ouedraogo, A., Konate, I., Huraux, J. M., Mayaud, P. & Nagot, N. 2008. Herpes simplex virus and HIV-1: deciphering viral synergy. *Lancet Infect Dis*, 8, 490-7.
- Van Heuverswyn, F., Li, Y., Neel, C., Bailes, E., Keele, B. F., Liu, W., Loul, S., Butel, C., Liegeois, F., Bienvenue, Y., Ngolle, E. M., Sharp, P. M., Shaw, G. M., Delaporte, E., Hahn, B. H. & Peeters, M. 2006. Human immunodeficiency viruses: SIV infection in wild gorillas. *Nature*, 444, 164.

- van Ingen, J., Boeree, M. J., de Lange, W. C., Hoefsloot, W., Bendien, S. A., Magis-Escurra, C., Dekhuijzen, R. & van Soolingen, D. 2008. Mycobacterium xenopi clinical relevance and determinants, the Netherlands. *Emerg Infect Dis*, 14, 385-9.
- Venables, E., Casteels, I., Manziyasi Sumbi, E. & Goemaere, E. 2019. "Even if she's really sick at home, she will pretend that everything is fine.": Delays in seeking care and treatment for advanced HIV disease in Kinshasa, Democratic Republic of Congo. *PLoS One*, 14, e0211619.
- Vidhale, T. A., Gupta, H. R., Prafulla Jaya, R. & Pustake, M. 2021. Fulminant subacute sclerosing panencephalitis (SSPE) presented with acute hemiparesis in a 13-year-old girl with perinatally acquired HIV infection. *BMJ Case Rep*, 14.
- Villard, O., Cimon, B., L'Ollivier, C., Fricker-Hidalgo, H., Godineau, N., Houze, S., Paris, L., Pelloux, H., Villena, I. & Candolfi, E. 2016. Serological diagnosis of Toxoplasma gondii infection: Recommendations from the French National Reference Center for Toxoplasmosis. *Diagn Microbiol Infect Dis*, 84, 22-33.
- Vu, L. & Misra, K. 2018. High Burden of HIV, Syphilis and HSV-2 and Factors Associated with HIV Infection Among Female Sex Workers in Tanzania: Implications for Early Treatment of HIV and Pre-exposure Prophylaxis (PrEP). *AIDS Behav*, 22, 1113-1121.
- Wang, R. J., Miller, R. F. & Huang, L. 2017a. Approach to Fungal Infections in Human Immunodeficiency Virus-Infected Individuals: Pneumocystis and Beyond. *Clin Chest Med*, 38, 465-477.
- Wang, X., Xu, Y., Scott, D. E., Murata, H. & Struble, E. B. 2017b. Binding and neutralizing anti-cytomegalovirus activities in immune globulin products. *Biologicals*, 50, 35-41.
- Wang, Y., Zhang, H., Na, L., Du, C., Zhang, Z., Zheng, Y. H. & Wang, X. 2019. ANP32A and ANP32B are key factors in the Rev-dependent CRM1 pathway for nuclear export of HIV-1 unspliced mRNA. *J Biol Chem*, 294, 15346-15357.
- Weber, B., Melchior, W., Gehrke, R., Doerr, H. W., Berger, A. & Rabenau, H. 2001. Hepatitis B virus markers in anti-HBc only positive individuals. *J Med Virol*, 64, 312-9.
- Wei, Y. & Guan, H. 2021. Pitfalls in the diagnosis of herpes simplex virus-1 encephalitis: case report. *Neurol Sci*, 42, 1189-1191.
- Weinberg, J. L. & Kovarik, C. L. 2010. The WHO Clinical Staging System for HIV/AIDS. *Virtual Mentor*, 12, 202-6.
- Weissert, R. 2011. Progressive multifocal leukoencephalopathy. *J Neuroimmunol*, 231, 73-7.
- WHO 2007. *WHO case definitions of HIV for surveillance and revised clinical staging and immunological classification of HIV-related disease in adults and children*.
- WHO. 2019. *HIV/AIDS* [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/hiv-aids> [Accessed 1 Apr 2020 2020].
- WHO 2020. Global Tuberculosis Report 2020. In: WHO (ed.). World Health Organization.
- Willard, S., Holzemer, W. L., Wantland, D. J., Cuca, Y. P., Kirksey, K. M., Portillo, C. J., Corless, I. B., Rivero-Mendez, M., Rosa, M. E., Nicholas, P. K., Hamilton, M. J., Sefcik, E., Kemppainen, J., Canaval, G., Robinson, L., Moezzi, S., Human, S., Arudo, J., Eller, L. S., Bunch, E., Dole, P. J., Coleman, C., Nokes, K., Reynolds, N. R., Tsai, Y. F., Maryland, M., Voss, J. & Lindgren, T. 2009. Does "asymptomatic" mean without symptoms for those living with HIV infection? *AIDS Care*, 21, 322-8.
- Williams, C. A., Winkler, J. R., Grassi, M. & Murray, P. A. 1990. HIV-associated periodontitis complicated by necrotizing stomatitis. *Oral Surg Oral Med Oral Pathol*, 69, 351-5.
- Wills, N. K., Lawrence, D. S., Botsile, E., Tenforde, M. W. & Jarvis, J. N. 2021. The prevalence of laboratory-confirmed Pneumocystis jirovecii in HIV-infected adults in Africa: A systematic review and meta-analysis. *Med Mycol*, 59, 802-812.
- Wilson, E. C., Jalil, E. M., Moreira, R. I., Velasque, L., Castro, C. V., Monteiro, L., Veloso, V. G. & Grinsztejn, B. 2021. High risk and low HIV prevention behaviours in a new generation of young trans women in Brazil. *AIDS Care*, 33, 997-1001.
- Wilton, J., Light, L., Gardner, S., Rachlis, B., Conway, T., Cooper, C., Cupido, P., Kendall, C. E., Loutfy, M., McGee, F., Murray, J., Lush, J., Rachlis, A., Wobeser, W., Bacon, J., Kroch, A. E., Gilbert, M., Rourke, S. B., Burchell, A. N. & Ontario, H. I. V. T. N. C. S. T. 2019. Late

- diagnosis, delayed presentation and late presentation among persons enrolled in a clinical HIV cohort in Ontario, Canada (1999-2013). *HIV Med*, 20, 110-120.
- Womack, J., Herieka, E., Gompels, M., Callaghan, S., Burt, E., Davies, C. F., May, M. T., O'Brien, N. & Macleod, J. 2017. A novel strategy to reduce very late HIV diagnosis in high-prevalence areas in South-West England: serious incident audit. *J Public Health (Oxf)*, 39, 170-176.
- Wong, D. J., Locarnini, S. A. & Thompson, A. J. V. 2017. Hepatitis B Virus. In: RICHMAN, D. D., WHITLEY, R. J. & HAYDEN, F. G. (eds.) *Clinical Virology*. 4 ed. Washington: ASM Press Washington.
- Wu, D., Wu, T., Liu, Q. & Yang, Z. 2020. The SARS-CoV-2 outbreak: What we know. *Int J Infect Dis*, 94, 44-48.
- Wu, L., Gerard, N. P., Wyatt, R., Choe, H., Parolin, C., Ruffing, N., Borsetti, A., Cardoso, A. A., Desjardin, E., Newman, W., Gerard, C. & Sodroski, J. 1996. CD4-induced interaction of primary HIV-1 gp120 glycoproteins with the chemokine receptor CCR-5. *Nature*, 384, 179-83.
- Wu, U. I., Chen, M. Y., Hu, R. H., Hsieh, S. M., Sheng, W. H., Lo, Y. C., Hung, C. C. & Chang, S. C. 2009. Peritonitis due to Mycobacterium avium complex in patients with AIDS: report of five cases and review of the literature. *Int J Infect Dis*, 13, 285-90.
- Yamada, E., Nakaoka, S., Klein, L., Reith, E., Langer, S., Hopfensperger, K., Iwami, S., Schreiber, G., Kirchhoff, F., Koyanagi, Y., Sauter, D. & Sato, K. 2018. Human-Specific Adaptations in Vpu Conferring Anti-tetherin Activity Are Critical for Efficient Early HIV-1 Replication In Vivo. *Cell Host Microbe*, 23, 110-120 e7.
- Yamamoto, K., Mezaki, K. & Ohmagari, N. 2021. Simple indicator of increased blood culture contamination rate by detection of coagulase-negative staphylococci. *Sci Rep*, 11, 17538.
- Yang, S., Li, M., Cheng, J., Wan, G., Zhou, Y., Jia, H., Wei, H., Song, R., Sheng, L., Wang, H., Wang, L. & Hua, W. 2019. Diagnostic determination of Norovirus infection as one of the major causes of infectious diarrhea in HIV patients using a multiplex polymerase chain reaction assay. *Int J STD AIDS*, 30, 550-556.
- Yati, S., Sitaresmi, M. N. & Indrawati, R. 2017. *Faktor Prognostik Kemampuan Hidup 5 tahun Anak dengan Infeksi HIV. Tesis S2 Kedokteran Klinik/ MS-PPDS FK-KMK UGM*. Master, Universitas Gadjah Mada.
- Ye, X., Li, T., Shao, W., Zeng, J., Hong, W., Lu, L., Zhu, W., Li, C. & Li, T. 2019. Nearly half of Ultrio plus NAT non-discriminated reactive blood donors were identified as occult HBV infection in South China. *BMC Infect Dis*, 19, 574.
- Yen, Y. F., Chen, M., Jen, I. A., Chuang, P. H., Lee, C. Y., Lin, S. I. & Chen, Y. A. 2019. Short- and Long-term Risks of Highly Active Antiretroviral Treatment with Incident Opportunistic Infections among People Living with HIV/AIDS. *Sci Rep*, 9, 3476.
- Yuniarti, Subronto, Y. W. & Rintiswati, N. 2015. *Faktor- faktor yang berhubungan dengan kematian pada pasien HIV yang menjalani terapi antiretroviral di RSUP Dr. Sardjito Yogyakarta*. Master, Universitas Gadjah Mada.
- Yusuf, A. A., Musa, B. M., Galadanci, N. A., Babashani, M., Mohammed, A. Z., Ingles, D. J., Fogo, A. B., Wester, C. W. & Aliyu, M. H. 2021. HIV-associated nephropathy: Protocol and rationale for an exploratory genotype-phenotype study in a sub-Saharan African population. *PLoS One*, 16, e0249567.
- Zakiawati, D., Farisyi, M. A. & Wahyuni, I. S. 2021. Clinical variability of recurrent oral HSV-1 infection with a high level of serum IgG antibody: Three case reports. *Clin Case Rep*, 9, e04735.
- Zhang, P., Liu, H., Wang, H., Wu, Y., Sun, L., Rao, M., Jia, X., Song, Y., Deng, G., Li, T., Ye, F., Zhou, Y. & Liao, Y. 2021. Performance of Xpert MTB/RIF Ultra for the Diagnosis of Pulmonary Tuberculosis Using Bronchoalveolar Lavage Samples in People Living with HIV/AIDS (PLWHA) in China: A Prospective Study. *HIV AIDS (Auckl)*, 13, 905-916.
- Zhao, M., Zhuo, C., Li, Q. & Liu, L. 2020. Cytomegalovirus (CMV) infection in HIV/AIDS patients and diagnostic values of CMV-DNA detection across different sample types. *Ann Palliat Med*, 9, 2710-2715.

- Zhou, C., Zhang, X., Zhang, W., Duan, J. & Zhao, F. 2019. PCR detection for syphilis diagnosis: Status and prospects. *J Clin Lab Anal*, 33, e22890.
- Zhou, D., Dejnirattisai, W., Supasa, P., Liu, C., Mentzer, A. J., Ginn, H. M., Zhao, Y., Duyvesteyn, H. M. E., Tuekprakhon, A., Nutalai, R., Wang, B., Paesen, G. C., Lopez-Camacho, C., Slon-Campos, J., Hallis, B., Coombes, N., Bewley, K., Charlton, S., Walter, T. S., Skelly, D., Lumley, S. F., Dold, C., Levin, R., Dong, T., Pollard, A. J., Knight, J. C., Crook, D., Lambe, T., Clutterbuck, E., Bibi, S., Flaxman, A., Bittaye, M., Belij-Rammerstorfer, S., Gilbert, S., James, W., Carroll, M. W., Klenerman, P., Barnes, E., Dunachie, S. J., Fry, E. E., Mongkolsapaya, J., Ren, J., Stuart, D. I. & Screaton, G. R. 2021. Evidence of escape of SARS-CoV-2 variant B.1.351 from natural and vaccine-induced sera. *Cell*, 184, 2348-2361 e6.
- Zhu, T., Korber, B. T., Nahmias, A. J., Hooper, E., Sharp, P. M. & Ho, D. D. 1998. An African HIV-1 sequence from 1959 and implications for the origin of the epidemic. *Nature*, 391, 594-7.
- Zweben, A., Fucito, L. M. & O'Malley, S. S. 2009. Effective Strategies for Maintaining Research Participation in Clinical Trials. *Drug Inf J*, 43.
- Zygula, A., Kosinski, P. & Wielgos, M. 2019. Saliva, hair, tears, and other biological materials obtained non-invasively for diagnosis in pregnancy: a literature review. *Ginek Pol*, 90, 475-481.