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- [10] Trickey A, May MT, Schommers P, et al. CD4 : CD8 Ratio and CD8 Count as Prognostic Markers for Mortality in Human Immunodeficiency Virus-Infected Patients on Antiretroviral Therapy: The Antiretroviral Therapy Cohort Collaboration (ART-CC) [J]. Clin Infect Dis, 2017, 65(6): 959-966.
- [11] Mussini C, Lorenzini P, Cozzi-Lepri A, et al. CD4/CD8 ratio normalisation and non-AIDS-related events in individuals with HIV who achieve viral load suppression with antiretroviral therapy: an observational cohort study[J]. The Lancet HIV, 2015, 2(3): e98-106.
- [12] Serrano-Villar S, Sainz T, Lee SA, et al. HIV-infected individuals with low CD4/CD8 ratio despite effective antiretroviral therapy exhibit altered T cell subsets, heightened CD8⁺ T cell activation, and increased risk of non-AIDS morbidity and mortality[J]. PLoS Pathog, 2014, 10(5): e1004078.
- [13] 谢静, 邱志峰, 韩扬, 等. 未经抗病毒治疗的 HIV/AIDS 患者 CD8⁺ T 细胞 HLA-DR、CD38 表达水平与 CD4⁺ T 细胞计数的相关性研究[J]. 中华内科杂志, 2016, 55(1): 36-39.
- [14] Hocqueloux L, Avettang-Fenoel V, Jacquot S, et al. Long-term antiretroviral therapy initiated during primary HIV-1 infection is key to achieving both low HIV reservoirs and normal T cell counts[J]. The Journal of antimicrobial chemotherapy, 2013, 68(5): 1169-1178.
- [15] Rosado-Sanchez I, Herrero-Fernandez I, Genebat M, et al. Thymic Function Impacts the Peripheral CD4/CD8 Ratio of HIV-Infected Subjects[J]. Clin Infect Dis, 2017, 64(2): 152-158.
- [16] Caby F. CD4⁺/CD8⁺ ratio restoration in long-term treated HIV-1-infected individuals[J]. AIDS, 2017, 31(12): 1685-1695.
- [17] Serrano-Villar S, Caruana G, Zlotnik A, et al. The effects of maraviroc versus efavirenz in combination with zidovudine/lamivudine on the CD4/CD8 ratio in treatment-naïve HIV-infected individuals[J]. Antimicrobial agents and chemotherapy, 2017, 61(12): AAC.01763-17.
- [18] Serrano-Villar S, Zhou Y, Rodgers AJ, et al. Different impact of raltegravir versus efavirenz on CD4/CD8 ratio recovery in HIV-infected patients[J]. The Journal of antimicrobial chemotherapy, 2017, 72(1): 235-239.
- [19] Lichtenstein KA, Armon C, Nagabhushanam V, et al. A pilot study to assess inflammatory biomarker changes when raltegravir is added to a virologically suppressive HAART regimen in HIV-1-infected patients with limited immunological responses[J]. Antiviral therapy, 2012, 17(7): 1301-1309.
- [20] Caby F, Guihot A, Lambert-Niclot I, et al. Determinants of a Low CD4/CD8 Ratio in HIV-1-Infected Individuals Despite Long-term Viral Suppression[J]. Clin Infect Dis, 2016, 62(10): 1297-1303.
- [21] Sainz T, Serrano-Villar S, Diaz L, et al. The CD4/CD8 ratio as a marker T-cell activation, senescence and activation/exhaustion in treated HIV-infected children and young adults[J]. AIDS, 2013, 27(9): 1513-1516.
- [22] Lu W, Mehraj V, Vyboh K, et al. CD4 : CD8 ratio as a frontier marker for clinical outcome, immune dysfunction and viral reservoir size in virologically suppressed HIV-positive patients[J]. J Int AIDS Soc, 2015, 18: 20052.
- [23] Fuster F, Vargas JI, Jensen D, et al. CD4/CD8 ratio as a predictor of the response to HBV vaccination in HIV-positive patients: A prospective cohort study [J]. Vaccine, 2016, 34(16): 1889-1895.
- [24] Serrano-Villar S, Gutierrez C, Vallejo A, et al. The CD4/CD8 ratio in HIV-infected subjects is independently associated with T-cell activation despite long-term viral suppression[J]. The Journal of infection, 2013, 66(1): 57-66.
- [25] Taylor JM, Fahey JL, Detels R, et al. CD4 percentage, CD4 number, and CD4:CD8 ratio in HIV infection: which to choose and how to use[J]. Journal of acquired immune deficiency syndromes, 1989, 2(2): 114-124.
- [26] Menozzi M, Zona S, Santoro A, et al. CD4/CD8 ratio is not predictive of multi-morbidity prevalence in HIV-infected patients but identify patients with higher CVD risk[J]. J Int AIDS Soc, 2014, 17(4 Suppl 3): 19709.
- [27] Bernal E, Serrano J, Perez A, et al. The CD4 : CD8 ratio is associated with IMT progression in HIV-infected patients on antiretroviral treatment[J]. Journal of the International Aids Society, 2014, 17(3): 19723.
- [28] Clifford GM, Rickenbach IM, Lise M, et al. Hodgkin lymphoma in the Swiss HIV Cohort Study[J]. Blood, 2009, 113(23): 5737-5742.
- [29] Triplette M, Attia EF, Akgun KM, et al. A Low Peripheral Blood CD4/CD8 Ratio Is Associated with Pulmonary Emphysema in HIV[J]. PLoS One, 2017, 12(1): e0170857.
- [30] Serrano-Villar S, Perez-Elias MJ, Dronda F, et al. Increased risk of serious non-AIDS-related events in HIV-infected subjects on antiretroviral therapy associated with a low CD4/CD8 ratio [J]. PLoS One, 2014, 9(1): e85798.
- [31] Jain V, Hartogensis W, Bacchetti P, et al. Antiretroviral therapy initiated within 6 months of HIV infection is associated with lower T-cell activation and smaller HIV reservoir size[J]. J Infect Dis, 2013, 208(8): 1202-1211.
- [32] Gandhi RT, McMahon DK, Bosch RJ, et al. Levels of HIV-1 persistence on antiretroviral therapy are not associated with markers of inflammation or activation[J]. PLoS Pathog, 2017, 13(4): e1006285.
- [33] Tae-Wook Chun JSJ, Punita Pandya, Claire W, et al. Relationship between the Size of the Human Immunodeficiency Virus Type 1 (HIV-1) Reservoir in Peripheral Blood CD4⁺ T Cells and CD4⁺:CD8⁺ T Cell Ratios in Aviremic HIV-1-Infected Individuals Receiving Long-Term Highly Active Antiretroviral Therapy [J]. The Journal of Infectious Diseases, 2002, 185(11,1): 1672-1676.
- [34] Yue Y, Wang N, Han Y, et al. A higher CD4/CD8 ratio correlates with an ultralow cell-associated HIV-1 DNA level in chronically infected patients on antiretroviral therapy: a case control study[J]. BMC Infect Dis, 2017, 17(1): 771.