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Research Summary:

I conduct clinical research on metabolic complications of HIV infection and aging in women. The goal of my current K23 funded research is to examine the relationship between disorders of bone and fat metabolism in HIV infection, in an effort to explain the high prevalence of premature bone disease in HIV-infected adults. My research is nested in the Women’s Interagency HIV Study (WIHS) and its Metabolic Substudy (WIHS MS), which collects sophisticated measures of metabolic parameters in HIV-infected women and uninfected controls, including adipokines and serial measurements of bone mineral density (BMD) and body composition using bone densitometry. I am collecting primary data on vertebral bone marrow fat content using magnetic resonance spectroscopy, in order to conduct an exploratory analysis of the relationship between marrow adiposity, fat redistribution, and reduced BMD in a subset of participants in the WIHS MS. Additional research will incorporate measures of visceral and subcutaneous adiposity to my ongoing analyses, as well as investigate adipokine measures such as leptin in relation to cognition. Recently, I have been undertaking a number of studies investigating patterns of weight gain in HIV-infected women after antiretroviral initiation, as well as clinical consequences of obesity, in terms of mortality, chronic pain, and incidence of (skeletal and non-skeletal) obesity-related chronic health conditions.

Selected Publications:


Sharma A, Flom PL, Rosen CJ, Schoenbaum EE. Racial Differences in Bone Loss and Relation to Menopause Among HIV-infected and Uninfected Women. Bone. 2015 Apr
Sharma A, Bynum SA, Schneider MF, Cox C, Tien PC, Hershown
RC, Gustafson D, Plankey MW. Changes in Body Mass Index
Following HAART initiation among HIV-infected Women in the
PMCID: PMC4285631

Hoy J, Grund B, Roediger M, Ensrud KE, Brar I, Colebunders R,
De Castro N, Johnson M, Sharma A, Carr A, for the INSIGHT
SMART Body Composition Substudy Group. Interruption or
deferral of antiretroviral therapy reduces markers of bone
turnover compared with continuous therapy: the SMART Body
Composition Substudy. J Bone Miner Res. 2013 June;

KM, Sharma A, Golub E, Young M, Cohen M, Tien PC. Vitamin D
and Insulin Resistance in Non-Diabetic Women’s Interagency
HIV Study Participants. AIDS Patient Care STDS. 2013

Sharma A, Tian F, Yin MT, Keller MJ, Cohen M, Tien PC.
Association of Regional Body Composition with Bone Mineral
Density in HIV-infected and Uninfected Women: Women’s
1; 61(4):469-76. PMCID: PMC3494812.

Tien PC, Schneider MF, Cox C, Karim R, Cohen M, Sharma A,
Young M, Glesby MJ. Association of HIV infection with Incident
Diabetes Mellitus: Impact of using Hemoglobin A1C as a
Nov1; 61(3):334-340. PMCID: PMC3480977

Sharma A, Cohen HW, Freeman R, Santoro N, Schoenbaum EE.
Prospective Evaluation of Bone Mineral Density among Middle-
Aged HIV-Infected and Uninfected Women: Association
between Methadone Use and Bone Loss. Maturitas. 2011 Nov;
70(3): 295– 301. PMCID: PMC3189307

Adeyemi OM, Agniel D, French AL, Tien P, Weber K, Glesby MJ,
Villacres MC, Sharma A, Merenstein D, Golub ET, Meyer W,


More about Anjali Sharma:

https://www.einstein.yu.edu/departments/medicine/divisions/general-internal-medicine/faculty/profile.asp?id=13659