Supplemental Data for:

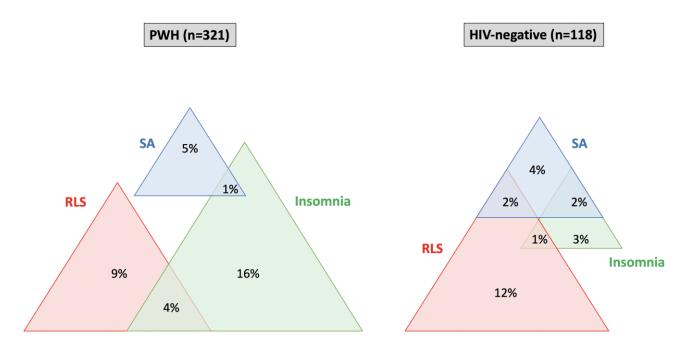
Sleep Disorders in HIV: A Substudy of the Pharmacokinetics and Clinical Observations in People Over Fifty (POPPY) Study

Authors:

Ken M. Kunisaki, MD, MS^{1,2}, Davide De Francesco³, Caroline A. Sabin³, Alan Winston⁴, Patrick W. G. Mallon⁵, Jane Anderson⁶, Emmanouil Bagkeris³, Marta Boffito⁷, Nicki Doyle⁴, Lewis Haddow^{3,8}, Frank Post⁹, Memory Sachikonye¹⁰, Jaime Vera¹¹, Wajahat Khalil^{1,2}, Susan Redline^{12,13,14}

1: Minneapolis Veterans Affairs Health Care System, Minneapolis/USA; 2: University of Minnesota, Minneapolis/USA; 3: University College London, London/UK; 4: Imperial College London, London/UK; 5: University College Dublin, Dublin/Ireland; 6: Homerton University Hospital, London/UK; 7: Chelsea and Westminster Healthcare NHS Foundation Trust, London/UK; 8: Kingston Hospital NHS Foundation Trust, London/UK; 9: King's College Hospital NHS Foundation Trust, London/UK; 10: UK Community Advisory Board (UK-CAB), London/UK; 11: Brighton and Sussex Medical School, Brighton/UK; 12: Brigham and Women's Hospital, Boston/USA; 13: Beth Israel Deaconess Medical Center, Boston/USA; 14: Harvard Medical School, Boston/USA

<u>Supplemental Figure</u>: Overlap between insomnia (by Insomnia Severity Index questionnaire), restless legs syndrome (RLS, by International Restless Legs Syndrome Study Group questionnaire), and sleep apnea (SA, by overnight oximetry testing) in persons with HIV (PWH) (n=321) and HIV-negative individuals (n=118).



<u>Supplemental Table</u>: Association of number of sleep disorders with outcomes in persons with HIV (PWH) and HIV-negative individuals, separately, with p-value to assess the interaction with HIV.

Outcome	PWH (n=319)				HIV-negative (n=116)				p for
	0 disorders (n=207)	1 disorder (n=97)	≥2 disorders (n=17)	Adjusted*	0 disorders (n=91)	1 disorder (n=22)	≥2 disorders (n=5)	Adjusted*	interaction
SF-36 Physical Score	52.7 (44.2, 56.8)	48.6 (39.2, 54.1)	36.8 (32.1, 46.4)	<0.001	55.1 (52.5, 57.8)	55.7 (53.2, 57.5)	52.3 (46.1, 54.9)	0.45	0.02
SF-36 Mental Score	52.8 (44.5, 57.6)	44.4 (34.6, 55.1)	38.9 (31.6, 41.7)	<0.001	55.1 (50.6, 58.2)	53.8 (45.4, 59.5)	52.3 (45.6, 53.9)	0.11	0.04
PROMIS Sleep Disturbance	49.0 (44.2, 54.3)	57.3 (50.1, 61.5)	60.4 (57.3, 62.6)	<0.001	46.7 (42.9, 51.2)	49.6 (42.9, 55.3)	63.7 (53.3, 64.9)	0.02	0.07
PROMIS Sleep-Related Impairment	47.3 (43.6, 54.0)	56.1 (48.9, 61.3)	62.3 (60.3, 65.3)	<0.001	45.5 (38.7, 50.3)	45.5 (41.4, 48.9)	63.3 (50.3, 63.3)	0.27	0.002

^{*:} adjusted for age, sex and ethnicity