

LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



McGowan, J; Sherr, L; Rodger, A; Fisher, M; Miners, A; Johnson, M; Elford, J; Collins, S; Hart, G; Phillips, A; Speakman, A; Lampe, F (2014) Effects of age on symptom burden, mental health and quality of life amongst people with HIV in the UK. *Journal of the International AIDS Society*, 17 (4 Supp). p. 19511. ISSN 1758-2652 DOI: <https://doi.org/10.7448/IAS.17.4.19511>

Downloaded from: <http://researchonline.lshtm.ac.uk/2025459/>

DOI: [10.7448/IAS.17.4.19511](https://doi.org/10.7448/IAS.17.4.19511)

Usage Guidelines

Please refer to usage guidelines at <http://researchonline.lshtm.ac.uk/policies.html> or alternatively contact researchonline@lshtm.ac.uk.

Available under license: <http://creativecommons.org/licenses/by/2.5/>

Oral Presentation – Abstract O314

Effects of age on symptom burden, mental health and quality of life amongst people with HIV in the UK

McGowan, Jennifer¹; Sherr, Lorraine¹; Rodger, Alison¹; Fisher, Martin²; Miners, Alec³; Johnson, Margaret⁴; Elford, Jonathan⁵; Collins, Simon⁶; Hart, Graham⁷; Phillips, Andrew¹; Speakman, Andrew¹ and Lampe, Fiona¹

¹Infection and Population Health, University College London, London, UK. ²HIV Medicine, Brighton and Sussex University Hospitals NHS Trust, Brighton, UK. ³Department of Health Services Research and Policy, London School of Hygiene and Tropical Medicine, London, UK. ⁴HIV Medicine, The Royal Free Centre for HIV Medicine, London, UK. ⁵Evidence-based Health Care, City University, London, UK. ⁶HIV i-Base, London, UK. ⁷Population Health Sciences, University College London, London, UK.

Introduction: The evolving HIV epidemic, coupled with advances in HIV treatment, has resulted in an ageing HIV-diagnosed population. It has been suggested that adverse physical and psychological effects of HIV may be higher among older people. However, few studies have examined the effect of older age on well-being for people with HIV.

Materials and Methods: The ASTRA study included 3258 HIV-diagnosed individuals (2248 MSM; 373 heterosexual men; 637 women) recruited from eight UK clinics in 2011–12 (64% response rate). Participants completed a questionnaire that included standard inventories on symptoms and health-related quality of life (HrQoL). Associations of age group with: physical symptom distress (reporting significant distress for ≥ 1 of 26 symptoms), depression and anxiety (score ≥ 10 on PHQ-9 and GAD-7, respectively) and HrQoL problem (reporting problems on ≥ 1 of 5 Eurqol-5D domains) were assessed; adjustment was made for gender/sexuality and time with diagnosed HIV.

Results: Of all participants, 87% were taking ART, 76% had VL ≤ 50 c/mL and 19% had CD4 < 350 /mm³. Mean age was 45 years (range 18–88) with 5% < 30 , 23% 30–39, 43% 40–49, 22% 50–59 and 7% ≥ 60 years. The most prevalent distressing physical symptoms were: lack of energy/tiredness (26%), difficulty sleeping (24%), muscle-ache/joint pain (21%) and pain (18%). With older age, there was no clear trend in prevalence of physical symptom distress, but prevalence of depression and anxiety decreased, while prevalence of HrQoL problems increased. This pattern remained after adjustment for gender/sexuality and time diagnosed with HIV. The increase with age in overall prevalence of HrQoL problem was due to increased problems for “mobility,” “self-care” and “performing usual activities” domains, not an increase in “depression/anxiety.” Longer time with diagnosed HIV was strongly associated with higher prevalence of all symptoms measures and HrQoL problem ($p < 0.001$ for trend, adjusted models).

Conclusions: Physical and psychological symptoms are common among people living with HIV, but the burden of these symptoms is not highest among the older age group. While HrQoL tended to worsen with older age, physical symptom distress did not, and mental health improved. This may reflect greater resilience in older adults, or the potential for “successful ageing”: maintaining mental health despite age-related health losses.

Published 2 November 2014

Copyright: © 2014 McGowan J et al; licensee International AIDS Society. This is an Open Access article distributed under the terms of the Creative Commons Attribution 3.0 Unported (CC BY 3.0) License (<http://creativecommons.org/licenses/by/3.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Table 1. Adjusted association of age with symptom prevalence among PWH

Age (years)	Physical symptom distress		Depression		Anxiety		Health-related QoL problem		
	N = 3258	%	Adjusted OR* (95% CI)	%	Adjusted OR* (95% CI)	%	Adjusted OR* (95% CI)	%	
<30		60	1.6 (1.1, 2.5)	35	3.1 (1.9, 5.1)	28	3.5 (2.0, 6.1)	63	0.9 (0.6, 1.5)
30–39		51	1.1 (0.8, 1.5)	25	1.8 (1.2, 2.7)	19	2.0 (1.2, 3.2)	57	0.7 (0.5, 1.0)
40–49		56	1.1 (0.8, 1.5)	31	2.1 (1.5, 3.1)	23	2.3 (1.5, 3.6)	65	0.8 (0.6, 1.2)
50–59		61	1.3 (1.0, 1.9)	31	2.1 (1.4, 3.1)	23	2.3 (1.4, 3.6)	72	1.1 (0.8, 1.5)
≥60		53	1 (reference)	18	1 (reference)	12	1 (reference)	70	1 (reference)
			p = 0.92 for trend		p = 0.010 for trend		p = 0.012 for trend		p = 0.004 for trend

*Odds ratio adjusted for gender/sexuality (MSM, heterosexual men and women) and time with diagnosed HIV (0–2, 2–10 and >10 years) using logistic regression