

## Supplementary material

**Supplementary Table 1:** List of comorbidities considered by organ system/photogenic group in the POPPY study with prevalence in all POPPY PLWH (n=1073)

Organ system/ pathogenic group	Comorbidities	Prevalence n (%)	Organ system/ pathogenic group	Comorbidities	Prevalence n (%)
AIDS events	Tuberculosis (TB)	83 (7.7%)	Cardiovascular diseases (CVDs)	Myocardial infarction (MI)	41 (3.8%)
	Cytomegalovirus (CMV)	28 (2.6%)		Angina pectoris	34 (3.2%)
	Pneumocystis pneumonia	94 (8.8%)		Peripheral vascular disease (PVD)	19 (1.7%)
	Kaposi's sarcoma	70 (6.5%)		Hypertension	229 (21.3%)
	Other AIDS events	124 (11.6%)		Transient ischemic attack (TIA)	31 (2.9%)
Infections	Varicella zoster virus (VZV)	155 (14.4%)	Bones and joint disorders	Coronary artery bypass grafting (CABG)	24 (2.2%)
	Fungal infection	54 (5.0%)		Heart failure	25 (2.3%)
Endocrine diseases	Type 2 diabetes	62 (5.8%)		Joint inflammation/Arthritis	224 (20.9%)
	Lipodystrophy/Lipoatrophy	24 (2.2%)		Joint replacement	24 (2.2%)
	Dyslipidaemia	293 (27.3%)		Osteopenia/Osteoporosis	69 (6.4%)
	Hypothyroidism	22 (2.1%)		Joint/Back pain	118 (11.0%)
Mental health problems	Depression	367 (34.2%)		Osteoporotic fracture	136 (12.7%)
	Anxiety	67 (6.2%)	Skin disorders	Eczema/Dermatitis	109 (10.2%)
	Panic attacks	20 (1.9%)		Psoriasis	47 (4.4%)
	Sleeping problems	71 (6.6%)	Sexually transmitted diseases (STDs)	Chlamydia	245 (22.8%)
Nervous system problems	Dizziness/Vertigo	116 (10.8%)		Gonorrhoea	457 (42.6%)
	Loss of consciousness	31 (2.9%)		Human papilloma virus (HPV)	99 (9.2%)
	Epilepsy	45 (4.2%)		Herpes simplex virus (HSV)	122 (11.4%)
	Encephalitis	16 (1.5%)		Lymphogranuloma venereum (LGV)	46 (4.3%)
	Peripheral neuropathy	43 (4.0%)		Syphilis	326 (30.4%)
	Migraine/Headache	33 (3.1%)	Gastro-intestinal disorders	Hernia	27 (2.5%)
Respiratory diseases	Asthma/Bronchitis/Chronic obstructive pulmonary disease (COPD)	264 (24.6%)		Gastro-oesophageal reflux disease (GORD)	70 (6.5%)
	Pneumonia	44 (4.1%)		Irritable bowel syndrome (IBS)	30 (2.8%)
	Chest infection	114 (10.6%)	Genitourinary disorders	Urinary incontinence	62 (5.8%)
	Hay fever/Allergy	77 (7.2%)		Urinary tract infections (UTI)	31 (2.9%)

Hepatitis	Hepatitis A	44 (4.1%)
	Hepatitis B	147 (13.7%)
	Hepatitis C	75 (7.0%)
Renal problem	Renal problem	28 (2.6%)
Cancer	Skin cancer	67 (6.2%)
	Haematological cancer	22 (2.1%)
	Solid organs cancer	75 (7.0%)
Anaemia	Anaemia	28 (2.6%)

	Erectile dysfunction	75 (7.0%)
	Non-specific Urethritis	58 (5.4%)
	Prostate dysfunction	31 (2.9%)
	Kidney stones	28 (2.6%)
Ear dysfunction	Ear dysfunction	40 (3.7%)
Eye problem	Eye problem	81 (7.5%)
Vitamin D deficiency	Vitamin D deficiency	19 (1.8%)