

Prevalence of Impairments, Activity Limitations and Participation Restrictions among people living with HIV in British Columbia



British Columbia
Centre *for* Excellence
in HIV/AIDS



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Background

- The World Health Organization recently revised the International Classification of Functioning, Disability and Health (2001) in order to more comprehensively assess an individual's ability to function and take part in everyday life activities.
- As improvements continue to be made with antiretroviral treatments for HIV/AIDS and infected individuals are living longer lives, the impact of impairments, activity limitations and participation restrictions on the quality of life is increasingly important to understand.

Background

- The 2001 re-defined WHO International Classification of Functioning emphasizes three areas:
 - Impairment - level of the body part or organ
 - Activity limitation - level of the whole body, the person
 - Participation restriction - level of the person in his/her environment or in society

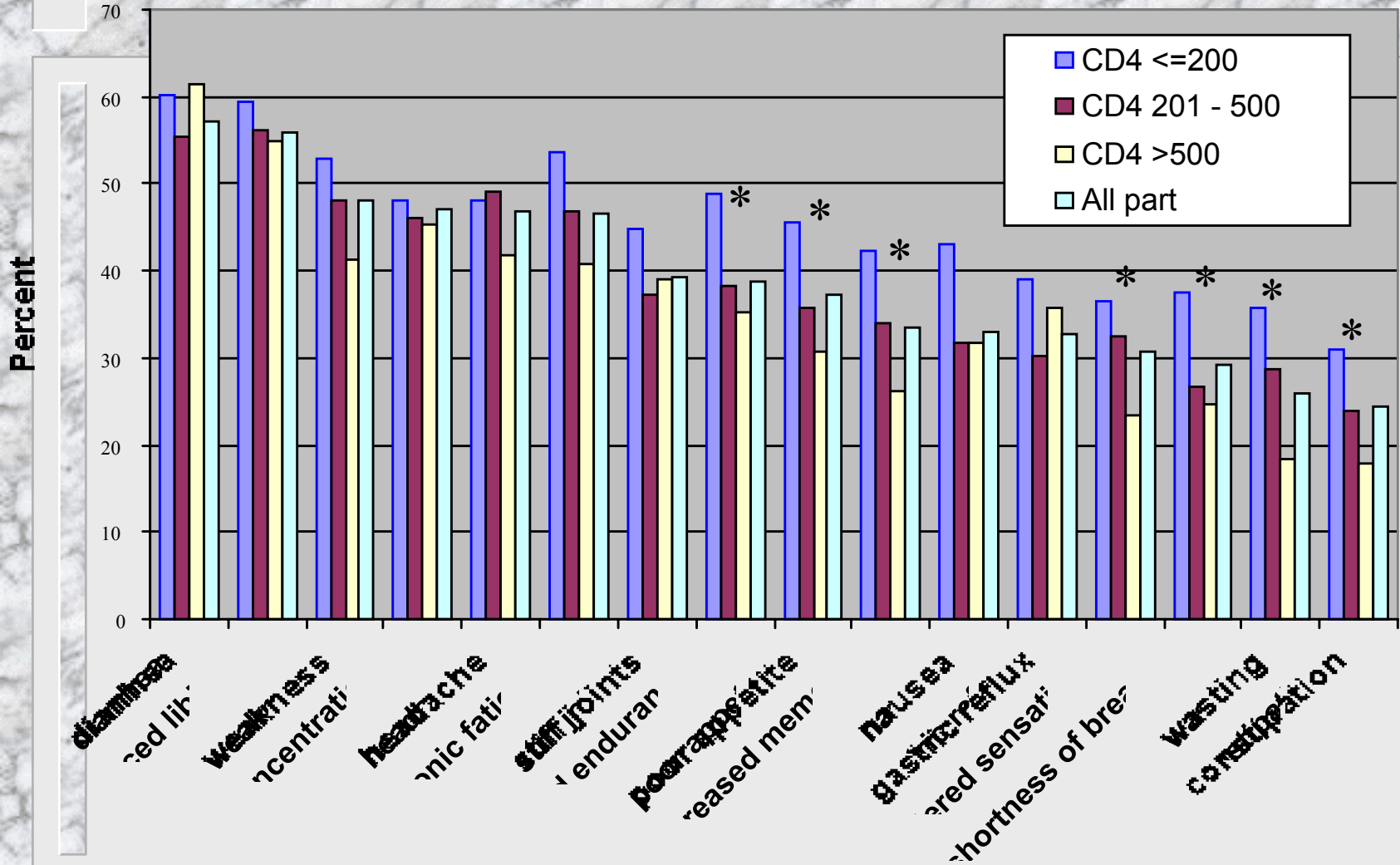
The Survey

- In 2002, the B.C. Persons With AIDS (BCPWA) Society in conjunction with the B.C. Centre for Excellence in HIV/AIDS mailed out surveys to 1508 HIV positive members, of which 761 were completed and returned.
- Questions included self-reported information on mental health diagnoses, symptoms, pain, limitations, restrictions and disease status

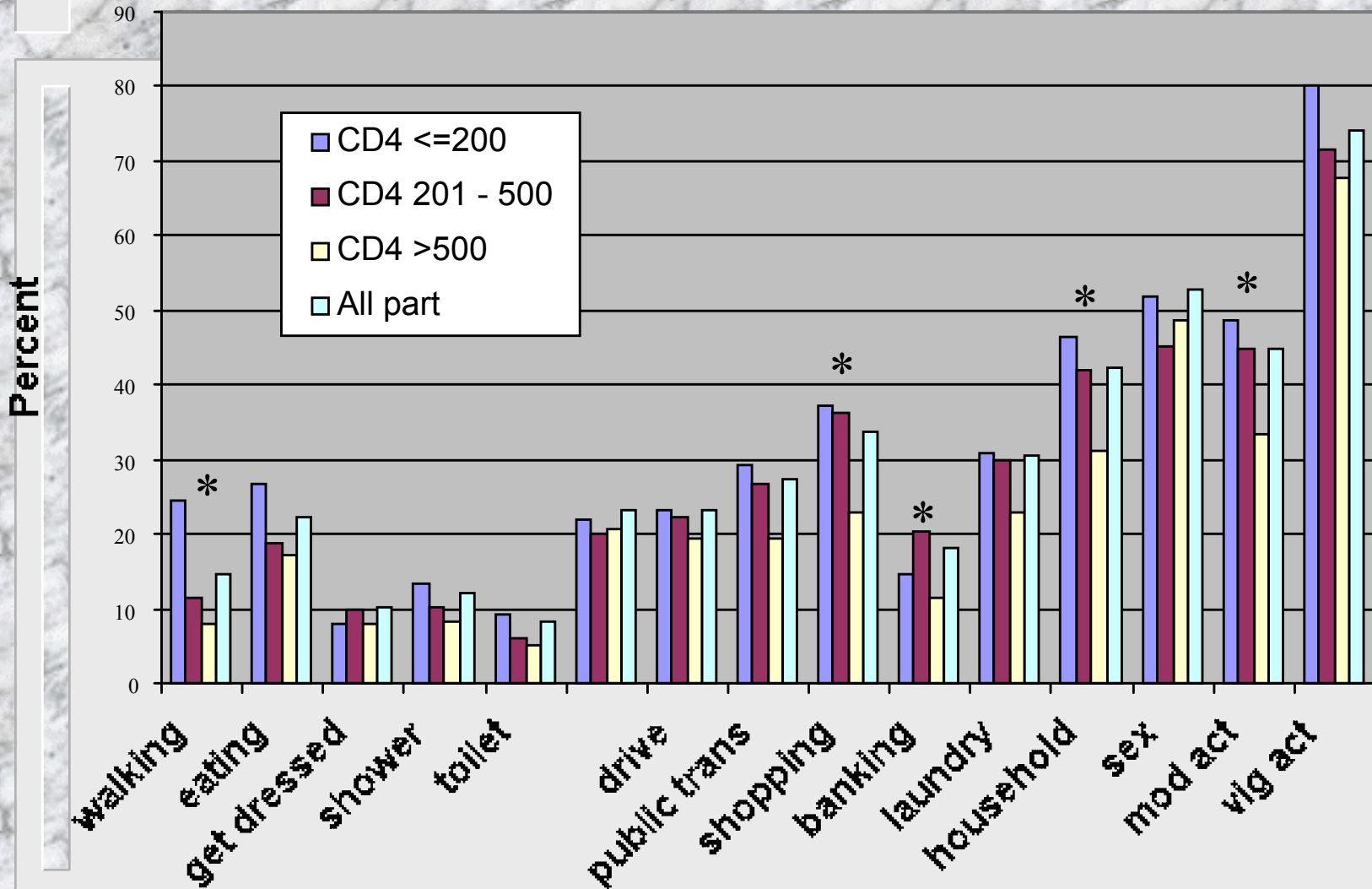
Summary of Experience

	CD4<200	CD4 201 to 500	CD4>500	p-value
Diagnosed conditions				
Depression	64 (52.0)	183 (59.2)	110 (61.5)	0.238
General Anxiety	11 (8.9)	34 (11.0)	14 (7.8)	0.488
Post traumatic Stress	6 (4.9)	18 (5.8)	13 (7.3)	0.677
Panic Disorder	8 (6.5)	35 (11.4)	12 (6.7)	0.124
Median number of symptoms (IQR)	9 (5, 13)	7 (2.5, 12)	7 (3, 12)	0.006
% With any symptom	120 (97.6)	285 (92.5)	161 (89.9)	0.041
Pain				
None	25 (20.7)	82 (29.4)	48 (28.4)	0.079
Little/mild	35 (28.9)	89 (31.9)	62 (36.7)	
Moderate/severe	61 (50.4)	108 (38.7)	59 (34.9)	
Median number of activity limitations (IQR)	3 (1, 7)	3 (1, 7)	2 (1, 5)	0.015
% With any Activity Limitation	108 (87.8)	236 (77.4)	137 (76.5)	0.031
Median number of Participation Restrictions (IQR)	7 (4, 9)	7 (3, 9)	7 (3, 9)	0.251
% With any Participation Restrictions	121 (98.4)	278 (91.5)	161 (89.9)	0.017

Impairments

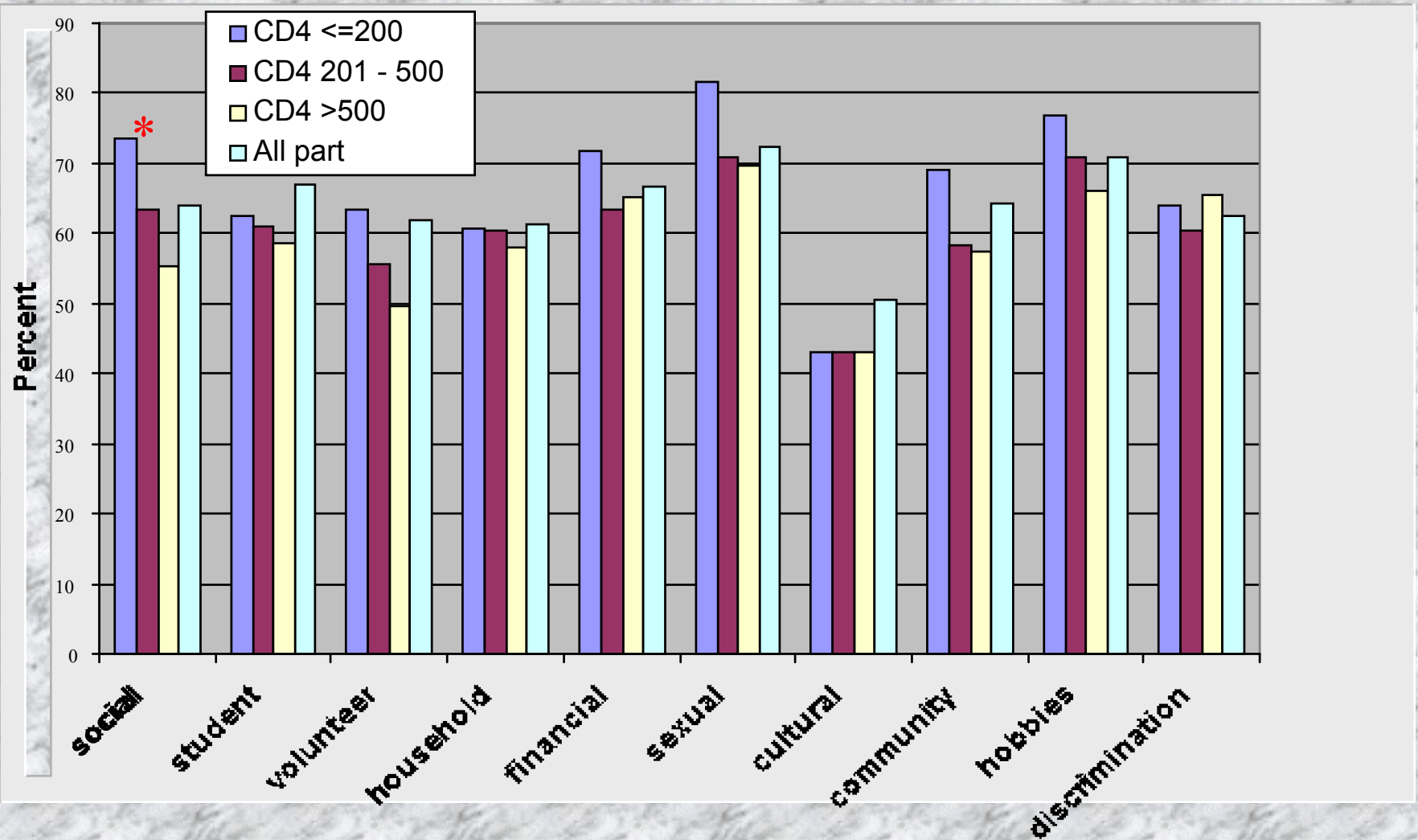


Activity Limitations



Participation Restrictions

Participation Restrictions by CD4 cell count



Comparison of Activity Limitations to General Population

	BCPWA with NPHS standard	BCPWA with NPHS chronic conditions standard	BCPWA if CD4 >500 with NPHS standard	BCPWA if CD4 >500 with NPHS chronic conditions standard
Men				
Observed	305	305	65	65
Expected	32.41	50.99	7.82	12.72
SPR (95% CI)	9.41 (8.39 – 10.55)	5.98 (5.49 – 6.47)	8.31 (6.78 – 9.97)	5.12 (4.17 – 6.13)
Women				
Observed	47	47	7	7
Expected	4.77	6.72	0.9095	1.38
SPR (95% CI)	9.86 (7.19 – 11.05)	7.00 (5.80 – 8.19)	7.70 (3.30 – 12.09)	5.07 (2.17 – 7.97)

Conclusions

- Our work demonstrates high levels of depression, impairment, activity limitation and participation restriction among people living with HIV in BC.
- The prevalence of activity limitations is much higher among people living with HIV than the general population, even when comparing only to a population reporting chronic conditions.

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