

Supplementary Table 1: Crude incidence rates (per 100,000) and number of cases of major cancers in people living with HIV in Australia between 1982 – 2012 in three age groups and overall

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Cancer ¹	Age Group	1982-1995		1996-1999		2000-2004		2005-2008		2009-2012		p-value*
		Number	Incidence	Number	Incidence	Number	Incidence	Number	Incidence	Number	Incidence	
AIDS defining cancer												
Kaposi sarcoma	Overall	994	1308.00	170	365.21	87	121.30	60	83.81	58	67.19	<0.001
	15-34	420	1207.17	61	453.53	20	150.27	6	63.52	9	85.74	<0.001
	35-64	571	1421.16	109	341.61	65	117.34	54	93.69	47	69.16	<0.001
	65-	3	274.22	0	0.00	2	66.27	0	0.00	2	25.41	0.992
Non-Hodgkin lymphoma	Overall	488	613.89	161	333.07	113	153.01	79	107.80	76	86.38	<0.001
	15-34	161	447.28	45	328.92	19	142.18	12	127.09	6	57.14	<0.001
	35-64	320	753.90	114	340.44	91	158.35	62	104.62	64	92.23	<0.001
	65-	7	666.03	2	171.09	3	99.27	5	109.29	6	74.19	0.001
Infection related non-AIDS defining cancers												
Anal cancer	Overall	11	13.51	9	18.15	24	31.82	31	41.53	54	60.38	<0.001
	15-34	3	8.22	2	14.43	0	0.00	1	10.53	1	9.48	0.939
	35-64	7	15.98	7	20.30	23	39.13	26	43.07	49	69.56	<0.001
	65-	1	88.73	0	0.00	1	31.42	4	83.59	4	47.45	0.993
Hodgkin's	Overall	12	14.74	14	28.25	14	18.57	21	28.13	27	30.17	0.095

lymphoma	15-34	6	16.45	5	36.11	2	14.87	1	10.54	1	9.48	0.290
	35-64	6	13.69	8	23.21	11	18.72	19	31.48	24	34.05	<0.001
	65-	0	0.00	1	80.06	1	31.25	1	20.79	2	23.61	0.924
Liver cancer	Overall	1	1.23	4	8.06	9	11.92	11	14.70	22	24.53	<0.001
	15-34	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	N/A
	35-64	1	2.28	4	11.59	8	13.59	11	18.18	21	29.72	<0.001
	65-	0	0.00	0	0.00	1	31.24	0	0.00	1	11.79	0.699
Head and neck cancer	Overall	3	3.68	3	6.05	8	10.60	7	9.36	11	12.27	0.001
	15-34	0	0.00	1	7.21	0	0.00	0	0.00	0	0.00	0.629
	35-64	3	6.84	2	5.80	7	11.90	7	11.58	11	15.57	<0.001
	65-	0	0.00	0	0.00	1	31.34	0	0.00	0	0.00	1.000
Non-infection related non-AIDS defining cancers												
Lip cancer	Overall	9	11.05	7	14.11	8	10.60	4	5.35	8	8.93	0.162
	15-34	1	2.74	0	0.00	0	0.00	1	10.53	0	0.00	0.784
	35-64	8	18.26	6	17.39	8	13.60	3	4.96	6	8.50	0.003
	65-	0	0.00	1	80.45	0	0.00	0	0.00	2	23.66	0.811
Lung cancer	Overall	9	11.05	11	22.19	20	26.50	17	22.74	40	44.64	0.002
	15-34	3	8.22	0	0.00	0	0.00	0	0.00	0	0.00	N/A
	35-64	5	11.41	10	29.00	16	27.20	15	24.80	31	43.89	0.016

	65-	1	90.50	1	81.37	4	126.42	2	41.89	9	106.80	0.952
Colorectal cancer	Overall	3	3.68	2	4.03	7	9.27	8	10.70	21	23.43	<0.001
	15-34	0	0.00	0	0.00	0	0.00	0	0.00	1	9.48	N/A
	35-64	2	4.56	1	2.90	7	11.90	7	11.57	14	19.82	<0.001
	65-	1	91.66	1	81.17	0	0.00	1	20.93	6	71.28	0.370
Stomach cancer	Overall	1	1.23	0	0.00	6	7.94	2	2.67	8	8.92	0.164
	15-34	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	N/A
	35-64	0	0.00	0	0.00	5	8.49	0	0.00	7	9.90	0.361
	65-	1	88.73	0	0.00	1	31.25	2	41.61	1	11.79	0.512
Melanoma	Overall	21	25.83	20	40.44	18	23.92	23	30.87	36	40.33	0.451
	15-34	5	13.71	3	21.66	5	37.21	0	0.00	1	9.48	0.598
	35-64	15	34.31	17	49.46	12	20.46	19	31.53	29	41.24	0.914
	65-	1	90.17	0	0.00	1	31.54	4	84.19	6	71.51	0.686
Prostate cancer	Overall	9	11.05	5	10.08	9	11.93	34	45.54	48	53.70	<0.001
	15-34	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	N/A
	35-64	7	15.97	2	5.80	2	3.40	23	38.05	36	51.04	0.014
	65-	2	179.69	3	246.91	7	224.14	11	233.64	12	144.72	0.599

* Linear regression model p value for incidence trend

¹ICD10/O-3 codes: Kaposi sarcoma 9140, 8000 if KS on AIDS Registry, non-Hodgkin lymphoma 9591 9596, 9670-9729, 9820-9837, 9940, 9948 and 9590 if ICD10 C82-C85; Diffuse large B cell lymphoma 9680, 9684, 9678, 9679; Burkitt 9687, 9826; CNS lymphoma, non-Hodgkin lymphoma with C70-C72 topography; Hodgkin lymphoma 9650-9667; anus C21; Head and Neck cancer C01-C10, excluding C07-C08; liver C22; lip C00; melanoma c43; trachea, bronchus and lung C33-C34; colorectal C18-C20; prostate C61