

Supplementary Table 1

Factor ¹	Level	N (level)	N (factor)	NLR median [IQR]	p-val ²
Depression	Yes	141	2,107	2.02 [1.38]	0.67
	No	1,966		2.06 [1.31]	
GAD	Yes	50	2,111	2.09 [1.66]	0.63
	No	2,061		2.06 [1.31]	
Panic	Yes	47	2,112	1.95 [1.45]	0.73
	No	2,065		2.06 [1.31]	
Arthritis	Yes	11739	44,596	2.08 [1.28]	<2.2E-16
	No	32775		1.95 [1.14]	
	Refused/Don't know	82		2.16 [1.01]	
Heart condition	Yes	4,925	44,597	2.27 [1.46]	<2.2E-16
	No	39,611		1.95 [1.15]	
	Refused/Don't know	61		2.02 [0.95]	
Emphysema	Yes	910	44,597	2.46 [1.71]	<2.2E-16
	No	43,630		1.98 [1.17]	
	Refused/Don't know	57		2.69 [1.38]	
Cancer	Yes	3,997	44,597	2.24 [1.42]	<2.2E-16
	No	40,553		1.96 [1.16]	
	Refused/Don't know	47		1.99 [0.98]	
Diabetes	Yes	5,252	48,020	2.10 [1.29]	<2.2E-16
	No	41,876		1.96 [1.16]	
	Borderline	862		1.96 [1.17]	
	Refused/Don't know	30		2.22 [1.29]	
Hypertension	Yes	15,457	47,862	2.06 [1.27]	<2.2E-16
	No	32,330		1.94 [1.13]	
	Refused/Don't know	75		2.07 [1.21]	
Aspirin use (recommended)	Yes	1,789	6,198	2.13 [1.41]	1.71E-09
	No	4,401		1.98 [1.14]	
	Refused/Don't know	8		2.36 [1.54]	
Aspirin use (independent)	Yes	235	4,409	2.03 [1.20]	0.83
	No	4,168		1.98 [1.14]	

	Refused/Don't know	6		2.01 [0.69]	
Aspirin frequency	One every day	1,807		2.13 [1.40]	
	One every other day	134	2,132	1.89 [1.19]	0.0009
	Another schedule	187		1.96 [1.09]	
	Refused/Don't know	4	2.86 [1.40]		
<p>¹ Detailed descriptions of all factors can be found in Table 1</p> <p>² p values for difference in median NLR between factor levels: calculated using Mann Whitney test for 2 levels and Kruskal Wallis omnibus test for >2 levels. P-trend obtained from Jonckheere-Terpstra test for ordered differences among levels.</p>					

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Supplementary Table 3		Arthritis (n=5,470)			Heart Condition (n=2,165)			Cancer (n=1,970)			Diabetes (n=2,491)			Hypertension (n=7,248)		
Factor	Level	N (level) ¹	Coefficient	p-val	N (level) ¹	Coefficient	p-val	N (level) ¹	Coefficient	p-val	N (level) ¹	Coefficient	p-val	N (level) ¹	Coefficient	p-val
Sex	Male	2,460	Ref		1,344	Ref		999	Ref		1,425	Ref		3,429	Ref	
	Female	3,010	-0.34	<2E-16	821	-0.33	1,806.04	771	-0.47	1,056.09	1,066	-0.23	Ref	2,068	-0.26	1,831.12
Age	<60	2,311	Ref		567	Ref		571	Ref		979	Ref		3,268	Ref	
	60-69	1,277	0.11	0.02	1,209	0.25	0.02	1,199	0.10	0.28	1,553	0.19	Ref	1,400	0.14	0.001
	70-79	1,056	Ref		1,209	Ref		932	Ref		1,403	Ref		1,313	Ref	
	80-89	1,448	-0.63	<2E-16	466	-0.63	1,896.09	262	-0.58	1,406.07	472	-0.69	<2E-16	833	-0.60	<2E-16
	90	1,641	-0.11	0.11	911	-0.08	0.04	104	-0.26	0.12	429	-0.27	0.005	472	-0.13	0.04
	Continuous	1,711	-0.12	0.09	185	-0.18	0.21	123	-0.26	0.09	273	-0.21	0.05	1,473	-0.19	0.003
	Other Hispanic	262	0.08	0.77	114	-0.05	0.77	78	-0.22	0.02	185	-0.38	0.002	477	-0.21	0.004
Education Level	Less than 12th grade	1,426	Ref		681	Ref		360	Ref		822	Ref		1,870	Ref	
	High school/GED or equivalent	2,984	0.10	0.04	1,150	0.15	0.10	1,057	0.10	0.32	1,264	0.13	0.027	3,082	0.12	0.004
	College graduate or above	1,056	0.15	0.03	312	0.44	0.001	401	0.30	0.02	401	0.31	0.005	1,408	0.18	0.002
Marital Status	Married	2,934	Ref		1,322	Ref		1,156	Ref		1,392	Ref		3,885	Ref	
	Widowed	773	2,406.01	5,006.04	381	5,381.01	8,276.05	307	0.18	0.19	314	0.05	0.68	956	0.19	0.003
	Divorced	869	0.07	0.27	324	0.05	0.69	266	0.06	0.64	364	-0.07	0.47	1,058	-0.01	0.81
	Separated	189	0.1	0.56	76	0.29	0.18	57	0.35	0.12	92	0.65	0.77	274	0.20	0.04
	Never married	467	0.05	0.52	169	0.02	0.92	124	0.05	0.76	225	-0.14	0.31	736	0.05	0.40
	Living with partner	255	0.03	0.73	93	-0.06	0.76	60	0.09	0.65	102	-0.13	0.42	406	-0.01	0.89
People in Household	1	1,168	Ref		503	Ref		464	Ref		473	Ref		1,444	Ref	
	2	2,332	-0.07	0.25	926	0.08	0.53	956	-0.0006	0.99	917	0.01	0.45	927	-0.01	0.83
	3	784	-0.05	0.47	289	0.09	0.54	240	-0.06	0.68	408	-0.12	0.33	1,235	-0.06	0.34
	4	693	-0.07	0.36	208	-0.14	0.39	143	-0.10	0.56	313	-0.12	0.31	809	0.03	0.73
	5	356	-0.12	0.18	115	-0.10	0.62	87	-0.11	0.60	176	-0.09	0.55	526	-0.01	0.89
	6	174	-0.01	0.92	64	0.04	0.80	48	0.09	0.73	101	0.12	0.50	269	-0.12	0.36
	7+	154	-0.17	0.19	60	-0.06	0.80	32	0.38	0.24	103	-0.12	0.28	208	-0.11	0.29
Income	< \$20,000	1,455	Ref		694	Ref		394	Ref		666	Ref		1,781	Ref	
	\$20,000 to \$44,999	1,571	0.007	0.90	679	0.03	0.77	384	-0.05	0.64	775	-0.11	0.20	2,138	0.05	0.26
	\$45,000 to \$74,999	959	0.007	0.91	358	0.02	0.86	369	-0.12	0.32	450	-0.09	0.36	1,505	-0.07	0.22
	\$75,000 to \$74,999	1,127	-0.04	0.60	299	-0.13	0.36	504	-0.17	0.18	422	-0.23	0.04	1,570	-0.07	0.35
Health Insurance	Yes	4,870	Ref		1,950	Ref		1,841	Ref		2,146	Ref		6,259	Ref	
	No	593	-0.04	0.49	210	-0.05	0.71	127	-0.02	0.92	344	-0.004	0.97	1,022	-0.05	0.37
Ever Smoker	Yes	3,324	Ref		1,469	Ref		1,194	Ref		1,431	Ref		4,129	Ref	
	No	2,145	-0.07	0.09	696	-0.16	0.06	784	-0.05	0.50	1,059	-0.11	0.10	3,312	-0.05	0.16
Alcohol use 1 (drinking days per year)	None	1,689	Ref		867	Ref		565	Ref		971	Ref		2,136	Ref	
	< 10	1,291	-0.11	0.06	459	-0.19	0.07	407	-0.05	0.60	635	-0.05	0.55	1,628	-0.10	0.04
	> 10 and < 50	854	-0.01	0.85	280	0.04	0.77	316	-0.18	0.10	373	0.05	0.63	1,221	-0.07	0.21
	> 50 and < 100	491	-0.05	0.48	150	-0.12	0.45	164	-0.10	0.48	186	-0.13	0.31	609	-0.11	0.11
	> 100	1,191	-0.06	0.26	404	-0.21	0.05	516	-0.13	0.21	321	-0.05	0.83	1,658	-0.06	0.20
Age	< 18.5	54	Ref		32	Ref		29	Ref		29	Ref		18	Ref	
	> 18.5 and < 25	1,095	0.00001	0.99	430	-0.01	0.97	517	-0.05	0.64	300	-0.64	0.19	1,234	-0.19	0.33
	> 25 and < 30	1,475	-0.16	0.99	602	-0.34	0.30	680	-0.20	0.10	698	-0.74	0.12	2,305	-0.33	0.08
	> 30	2,635	-0.16	0.35	1,031	-0.34	0.30	764	-0.28	0.48	1,483	-0.78	0.10	3,671	-0.35	0.07
Physical Activity	None	1,338	Ref		1,448	Ref		1,072	Ref		1,633	Ref		4,288	Ref	
	Moderate only	1,538	-0.16	0.0004	565	-0.08	0.39	658	-0.17	0.03	686	-0.18	0.81	2,043	-0.14	0.0006
	Vigorous only	165	-0.15	0.18	35	-0.23	0.45	75	-0.44	0.07	64	-0.04	0.83	293	-0.20	0.03
	Moderate and vigorous	446	-0.16	0.03	165	-0.22	0.22	165	-0.31	0.02	125	-0.11	0.43	682	-0.20	0.003
Time sitting/reclining	< 1 hour	662	Ref		318	Ref		183	Ref		188	Ref		884	Ref	
	> 1 hour and < 2 hours	1,245	0.05	0.45	997	0.11	0.42	967	0.11	0.39	1,110	-0.02	0.87	3,440	0.07	0.22
	> 2 hours and < 4 hours	3,980	0.16	0.01	852	0.21	0.13	791	0.19	0.15	931	0.26	0.01	2,708	0.16	0.005
	> 4 hours	1,911	-0.001	0.99	89	0.09	0.71	62	-0.00004	0.99	101	0.09	0.61	240	0.13	0.23
Arthritis	Yes	1,168	Ref		1,168	Ref		1,168	Ref		1,168	Ref		1,168	Ref	
	No	1,088	Ref		970	-0.08	0.32	950	-0.06	0.40	1,332	0.04	0.58	4,012	-0.01	0.69
Heart condition	Yes	1,168	Ref		1,168	Ref		1,168	Ref		1,168	Ref		1,168	Ref	
	No	4,272	-0.22	Ref	1,947	-0.05	0.55	1,804	-0.16	0.02	2,568	-0.23	1,546.07	5,658	-0.23	1,546.07
Emplyema	Yes	294	Ref		194	Ref		118	Ref		119	Ref		250	Ref	
	No	5,166	-0.27	0.002	1,967	-0.25	0.08	1,856	-0.56	0.00037	2,365	-0.12	0.40	6,960	-0.36	5,716.00
Cancer	Yes	1,056	Ref		472	Ref		472	Ref		461	Ref		1,599	Ref	
	No	4,414	-0.14	0.004	681	0.06	0.90	367	Ref		367	Ref		1,135	Ref	0.0006
Diabetes	Yes	1,155	Ref		681	Ref		367	Ref		2,120	-0.21	0.02	1,599	-0.17	0.0006
	No	4,303	-0.12	0.03	1,398	-0.14	0.12	1,330	-0.25	0.01	1,315	-0.26	0.01	5,231	-0.15	0.0002
	Borderline	208	-0.23	0.03	89	-0.04	0.85	72	-0.53	0.009	72	-0.53	0.009	291	-0.10	0.29
Hypertension	Yes	1,327	Ref		668	Ref		632	Ref		749	Ref		2,491	Ref	
	No	5,921	-0.08	0.05	2,497	-0.23	0.01	2,338	-0.19	0.02	2,742	-0.07	0.29	4,757	-0.08	0.004

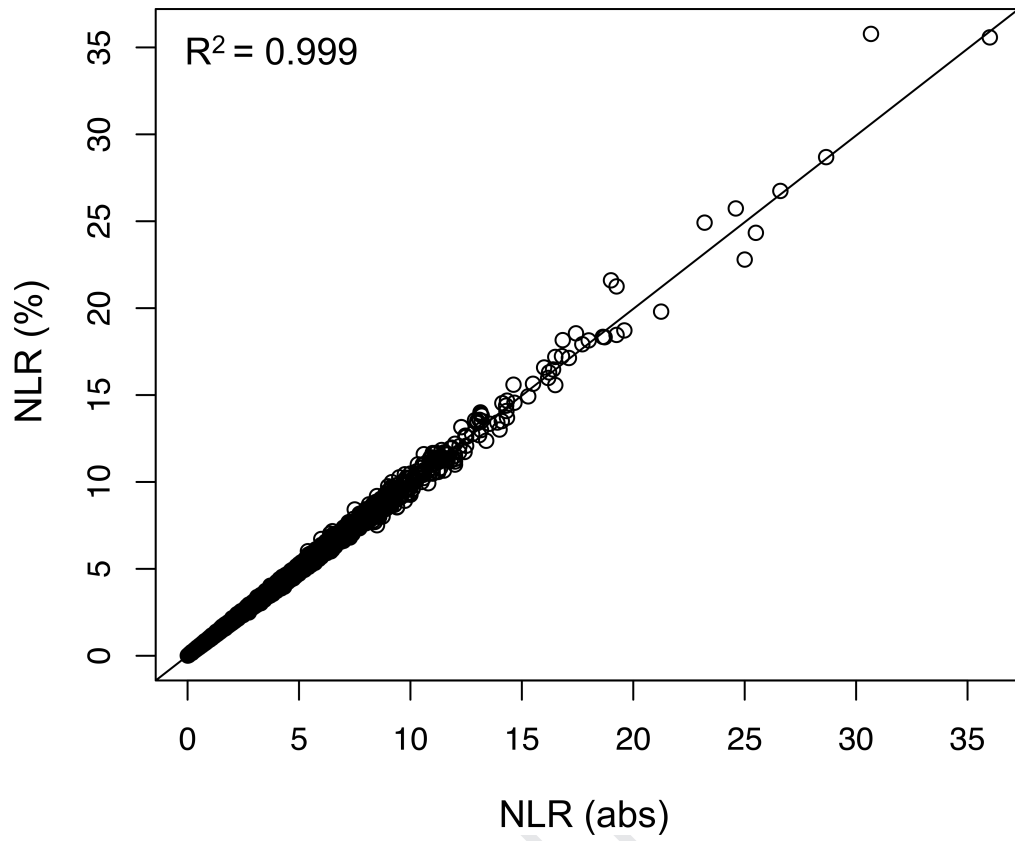
¹ Participant counts in multivariable model reflect only participants with complete data for all included variables. Note that participants reporting "refused/don't know" are excluded from this table for brevity, and thus slight variations from these participant totals may be observed.

Supplementary Table 4		Univariate			Multivariable		
Factor	Level	N (level) ¹	Coefficient	p-val	N (level) ¹	Coefficient	p-val
Sex	Male	2,206	Ref		30,704	Ref	
	Female	9,533	-0.03	0.008	9,533	-0.13	5,591.12
Age	<60	13,039	Ref		13,685	Ref	
	60-69	14,964	0.28	<2E-16	14,964	0.28	<2E-16
	70-79	48,023	0.0066	<2E-16	20,237	0.004	5,596.07
	Continuous	13,039	Ref		13,685	Ref	
Race	Non-Hispanic White	31,254	Ref		9,251	Ref	
	Non-Hispanic Black	9,928	-0.59	<2E-16	4,066	-0.53	<2E-16
	Hispanic American	9,138	-0.20	<2E-16	3,019	-0.10	5,436.04
	Other Hispanic	1,468	-0.28	<2E-16	2,089	-0.15	3,306.07
	Other Race	1,856	-0.31	<2E-16	1,832	-0.21	3,345.11
Education Level	Less than 12th grade	12,550	Ref		4,674	Ref	
	High school/GED or equivalent	23,657	0.009	0.51	10,707	0.058	0.01
	College graduate or above	9,452	-0.003	0.84	4,943	0.076	0.01
Marital Status	Married	52,641	Ref		30,419	Ref	
	Widowed	1,856	0.27	<2E-16	1,391	0.19	1,256.06
	Divorced	4,465	-0.005	0.8	2,355	0.03	0.31
	Separated	1,468	-0.04	0.23	683	0.12	0.02
	Never married	9,432	-0.10	3,646.11	3,691	0.09	0.002
	Living with partner	3,323	-0.12	1,656.03	1,660		

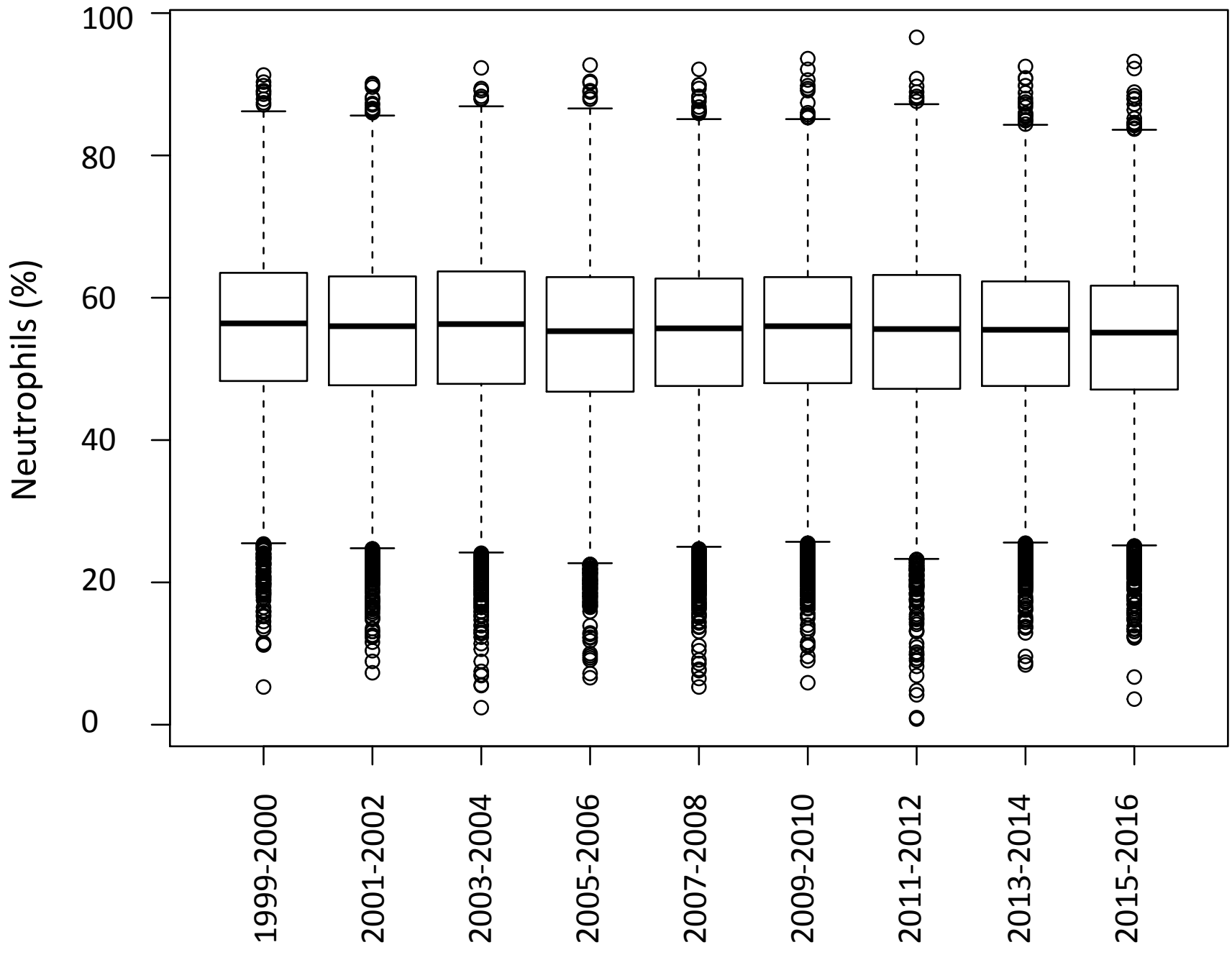
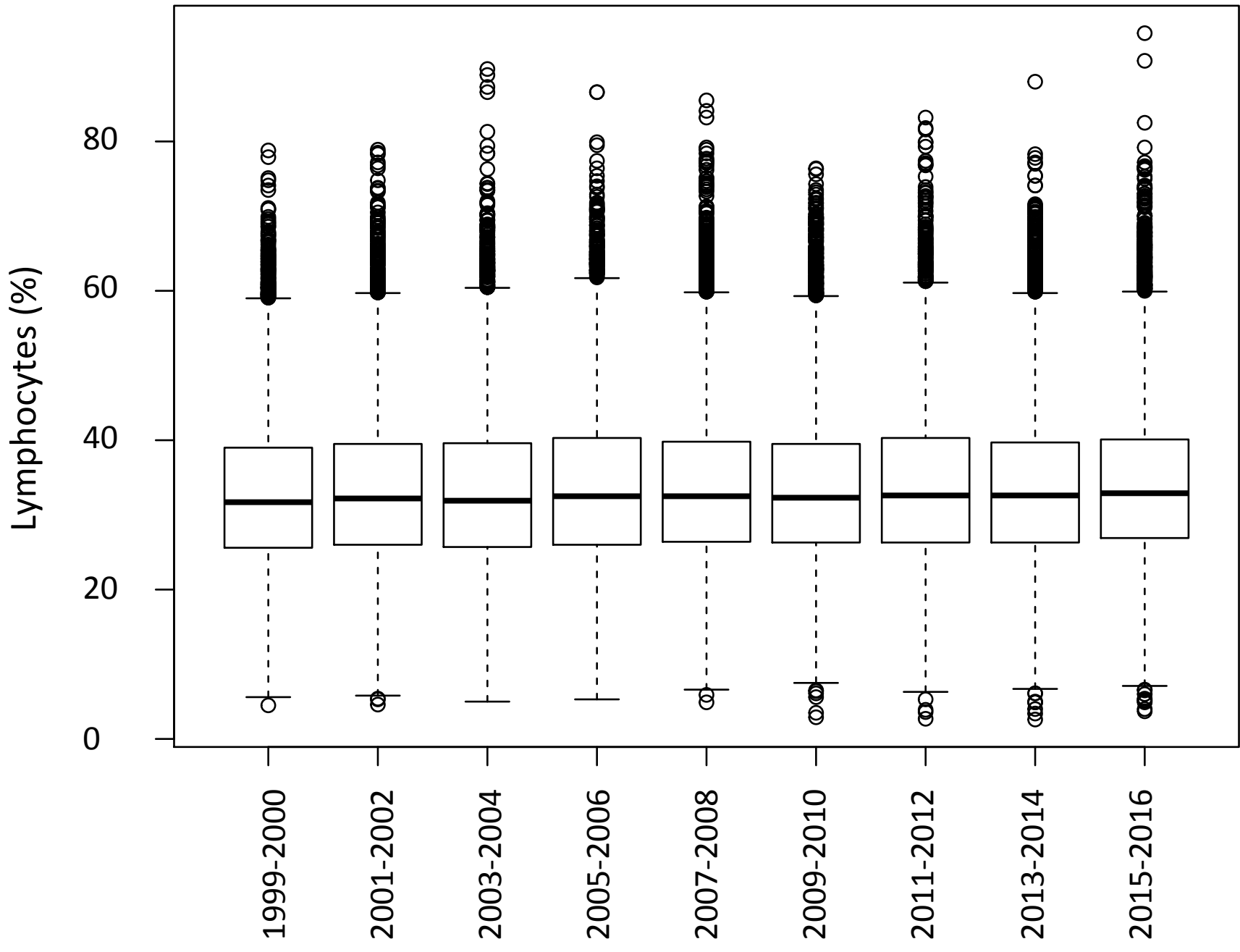
NHANES participants
between 1999 and 2016
(n=75,218)

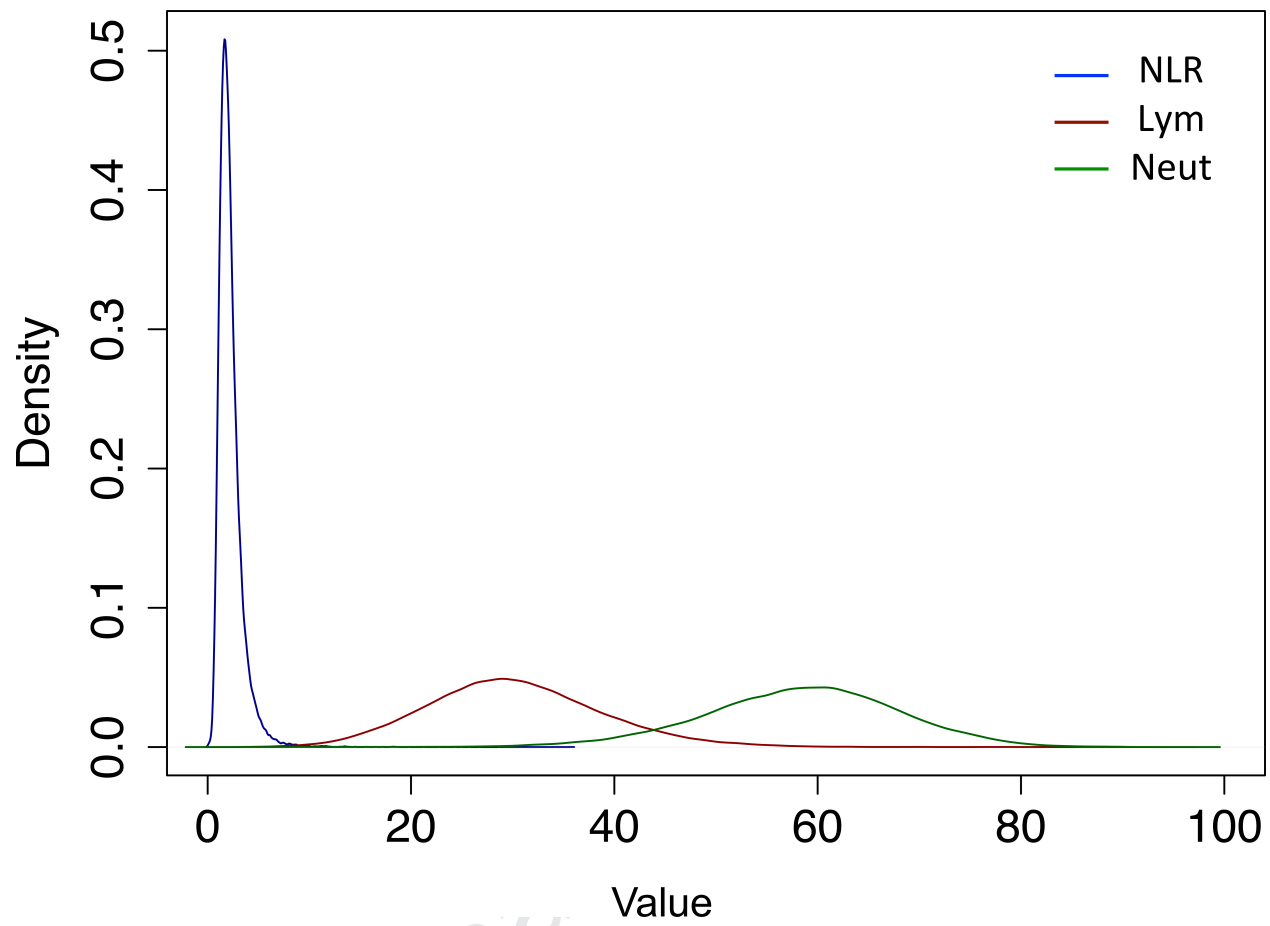
Exclusion of all
participants aged 17
or under
(n=27,195)

Study population
(n=48,023)



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