

SUPPLEMENTAL MATERIAL

Association of early life physical and sexual abuse with premature mortality among female nurses: prospective cohort study

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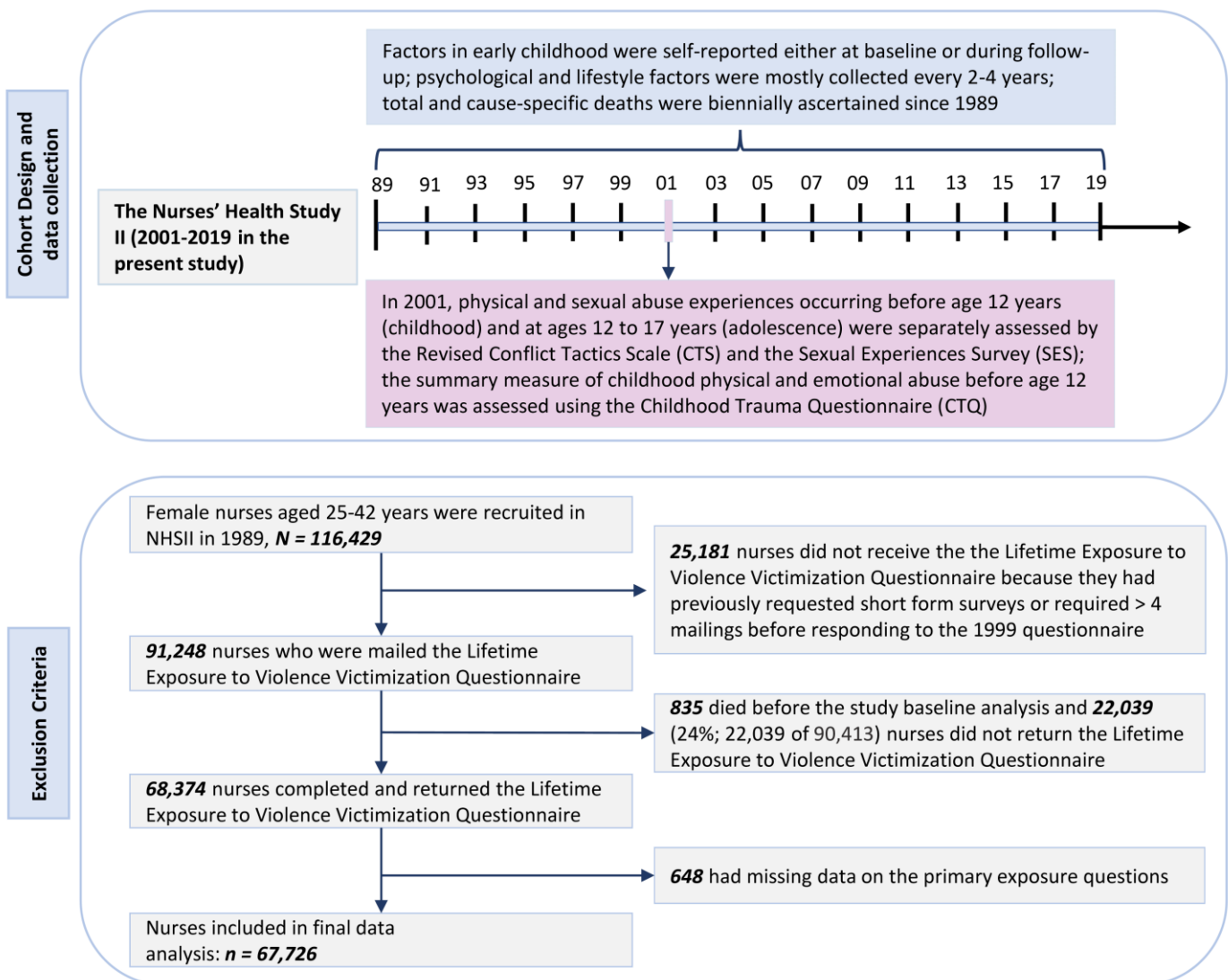


Figure S1. Cohort design, data collection, and exclusion criteria.

Table S1. Age-standardized characteristics for included female nurses versus those excluded due to a lack of exposure information in 2001 (Nurses' Health Study II, 2001-19).

Characteristics ^a	Included	Excluded
No.	67,726	47,868
Age (year), mean (SD)	46.6 (4.7)	47 (4.7)
White, N (%)	63,634 (94.0)	42,197 (88.1)
Age at menarche, mean (SD)	12.4 (1.4)	12.4 (1.5)
BMI (kg/m ²), N (%)		
<18.5	840 (1.3)	719 (1.5)
18.5-24.9	32,400 (48.1)	21,311 (44.1)
25-29.9	18,421 (27.1)	13,319 (28.0)
≥30	16,065 (23.6)	12,519 (26.4)
Parental history of CVD before age 60 years, N (%)	18,986 (27.8)	11,109 (23.5)
Total physical activity (h/wk), mean (SD)	2.4 (3.2)	2.5 (3.9)
AHEI-2010 dietary score, ^b mean (SD)	55.8 (12.8)	52.3 (12.4)
Alcohol intake (g/d), mean (SD)	4.0 (7.3)	3.7 (7.0)
Parity, ^c mean (SD)	1.9 (1.2)	1.8 (1.2)
Smoking status, N (%)		
Never	44,319 (65.7)	29,833 (62.0)
Past	17,672 (25.8)	11,829 (25.1)
Current 1-34 cigarettes/day	5372 (7.9)	4328 (9.1)
Current ≥35 cigarettes/day	290 (0.4)	226 (0.5)
OC use, N (%)		
Never	5796 (8.9)	3213 (6.4)
Past	52,676 (77.5)	30,311 (64.0)
Current	8918 (13.2)	5166 (10.9)

^aValues are means (SD) or N (percentages); means (SD) and percentages of all variables except for age are age-standardized. ^bA total of 10763 (9.3%) women had missing data on baseline diet scores (including alcohol intake). ^cPregnancies lasting at least six months.

Table S2. The summary measure of cumulative physical and sexual abuse.

	Sexual Abuse ^b			
	No abuse	Touched only	Forced sex as a child or adolescent	Forced sex as a child and adolescent
Physical Abuse ^a				
None	No exposure to violence (Level 1)	Mild or moderate single type (Level 2)	Mild multiple types or severe-single type (Level 3)	Moderate chronic or multiple types (Level 4)
Mild to Moderate	Mild or moderate single type (Level 2)	Mild multiple types or severe single type (Level 3)	Moderate chronic or multiple types (Level 4)	Severe chronic or multiple types (Level 5)
Severe as a child or adolescent	Mild multiple types or severe single type (Level 3)	Moderate chronic or multiple types (Level 4)	Severe chronic or multiple types (Level 5)	Severe chronic and multiple types (Level 6)
Severe as a child and adolescent	Moderate chronic or multiple types (Level 4)	Severe chronic or multiple types (Level 5)	Severe chronic and multiple types (Level 6)	Severe chronic and multiple types (Level 6)

^aPhysical abuse categories: none; mild (being “pushed, grabbed, or shoved” at any frequency or being “kicked, bitten, or punched” once or “hit with something” once); moderate (being “hit with something” more than once or “physically attacked” once); and severe (being “kicked, bitten, or punched” or “physically attacked” more than once or ever “choked or burned”).

^bSexual abuse categories: none, touched only (touched in a sexual way as a child and/or adolescent), forced sex as a child or adolescent (forced into any sexual activity by an adult or older child as a child or adolescent), forced sex as a child and adolescent (forced into any sexual activity by an adult or older child as a child and adolescent).

Table S3. Categories for causes of death.

Causes of death	ICD-8 code	Case numbers (n=2410)
Cancer <i>e.g., malignant neoplasm of the buccal cavity and pharynx, digestive organs and peritoneum, peritoneum and retroperitoneal tissue, respiratory system, genito-urinary organs, bone, connective tissue, skin, and breast.</i>	140-207	874
Cardiovascular disease <i>e.g., acute rheumatic fever, chronic rheumatic heart disease, hypertensive disease, ischaemic heart disease, cerebrovascular disease, diseases of arteries, arterioles and capillaries, diseases of veins and lymphatics, and other diseases of the circulatory system.</i>	390-458	154
External causes of injury and poisoning <i>e.g., railway accidents, traffic accidents, accidental poisoning by drugs and medicaments, accidental falls, accidents due to natural and environmental factors, surgical and medical complications and misadventures, homicide, and injury purposely inflicted by other persons.</i>	800-949, 960-999	94
Senility and ill-defined diseases	790-794, 796	89
Respiratory disease <i>e.g., acute respiratory infections, influenza, pneumonia, bronchitis, emphysema, and asthma.</i>	460-519	49
Suicide	950-959	49
Diseases of the digestive system <i>e.g., diseases of the oral cavity, salivary glands and jaws, diseases of the stomach/duodenum, appendicitis, hernia of the abdominal cavity, and diseases of the liver, gallbladder, and pancreas.</i>	520-577	42
Diseases of the nervous system and sense organs <i>e.g., inflammatory diseases of the central nervous system, hereditary and familial diseases of the nervous system, diseases of nerves and peripheral ganglia, Inflammatory diseases of the eye, and diseases of the ear and mastoid process.</i>	320-389	37
Infectious and parasitic diseases <i>e.g., intestinal infectious diseases, tuberculosis, zoonotic bacterial diseases, poliomyelitis and other enterovirus diseases of the central nervous system, viral diseases accompanied by exanthem, arthropod-borne viral diseases, rickettsioses and other arthropod-borne diseases, syphilis and other venereal diseases, mycoses, helminthiasis.</i>	000-136	36
Mental disorders <i>e.g., psychoses, mental retardation, neuroses, personality disorders, and other nonpsychotic mental disorders.</i>	290-315	31
Endocrine, nutritional and metabolic diseases or immunity disorders <i>e.g., diseases of endocrine glands, avitaminosis and other nutritional deficiencies, and metabolic diseases.</i>	240-279	29
Diseases of the genito-urinary system <i>e.g., nephritis and nephrosis, diseases of the breast, ovary, fallopian tube/parametrium, and diseases of the uterus and other female genital organs.</i>	580-629	20
Diseases of the musculoskeletal system and connective tissue	710-738	16

<i>e.g., arthritis and rheumatism, except rheumatic fever, osteomyelitis, joint, and musculoskeletal system.</i>		
Benign neoplasm	208-239	7
Sudden death	795	6
Diseases of the blood and blood-forming organs	280-289	5
Symptoms referable to systems or organs	780-789	3
Congenital anomalies	740-759	3
Complications of pregnancy, childbirth, and the puerperium <i>e.g., complications of pregnancy, urinary infections, abortion, delivery, and certain conditions originating in the perinatal period.</i>	630-676, 760-779	2
Uncertain	-	864

Table S4. Hazard ratio (HR) (95% confidence interval (CI)) for the risk of cause-specific premature mortality (before age 70 y) according to early-life abuse and social support among 67,726 female nurses (Nurses' Health Study II, 2001-19).

Type of death	Crude incidence per 1000 person-years	Events ,No.	HRs (95% CI)		
			Age-adjusted models ^c	Multivariable models adjusted for childhood characteristics ^d	Full models additionally adjusted for adult characteristics ^e
Cumulative abuse history before age 12					
None	1.85	946	1 [Reference]	1 [Reference]	1 [Reference]
Physical abuse only	2.07	890	1.12 (1.02 to 1.22)	1.10 (1.00 to 1.21)	1.10 (1.00 to 1.20)
Sexual abuse only	1.92	184	1.00 (0.85 to 1.17)	0.97 (0.83 to 1.14)	0.94 (0.80 to 1.10)
Both physical and sexual abuse	2.53	390	1.32 (1.17 to 1.49)	1.23 (1.09 to 1.39)	1.19 (1.06 to 1.34)
P for trend ^b			<0.001	0.004	0.02
Cumulative abuse history between 12-17 years					
None	1.84	1235	1 [Reference]	1 [Reference]	1 [Reference]
Physical abuse only	2.11	566	1.15 (1.04 to 1.27)	1.13 (1.02 to 1.24)	1.08 (0.98 to 1.20)
Sexual abuse only	1.97	266	1.07 (0.94 to 1.22)	1.03 (0.90 to 1.18)	1.01 (0.88 to 1.15)
Both physical and sexual abuse	2.88	343	1.56 (1.38 to 1.76)	1.45 (1.28 to 1.64)	1.32 (1.17 to 1.49)
P for trend ^b			<0.001	<0.001	<0.001
Childhood trauma scale score ^a					
5 (none)	1.87	253	1 [Reference]	1 [Reference]	1 [Reference]
6-10	1.87	1189	1.05 (0.92 to 1.20)	1.05 (0.91 to 1.20)	1.07 (0.94 to 1.23)
11-15	2.03	553	1.14 (0.98 to 1.32)	1.11 (0.96 to 1.29)	1.12 (0.97 to 1.30)
16-20	2.57	270	1.42 (1.19 to 1.68)	1.35 (1.13 to 1.60)	1.31 (1.10 to 1.56)
21-25	3.27	145	1.71 (1.39 to 2.09)	1.53 (1.25 to 1.88)	1.41 (1.14 to 1.73)
P for trend ^b			<0.001	<0.001	<0.001
Social support					
Very often	1.85	907	1 [Reference]	1 [Reference]	1 [Reference]
Often	1.89	623	1.01 (0.91 to 1.11)	1.01 (0.91 to 1.12)	1.00 (0.91 to 1.12)
Sometimes	2.18	476	1.15 (1.03 to 1.29)	1.14 (1.02 to 1.28)	1.13 (1.01 to 1.26)
Rarely	2.47	291	1.27 (1.11 to 1.45)	1.22 (1.07 to 1.40)	1.18 (1.03 to 1.34)
Never	3.11	113	1.54 (1.26 to 1.87)	1.43 (1.17 to 1.74)	1.33 (1.09 to 1.62)
P for trend ^b			<0.001	<0.001	<0.001

^aA summary measure of childhood physical and emotional abuse before age 12 years was assessed using items from the Childhood Trauma Questionnaire short form. ^bP for trend was conducted by modeling the categories of increasing severity of early-life abuse as an ordinal level variable using integer values. ^c In the age-adjusted model, age in months (continuous) at the start of follow-up and the calendar year of the current questionnaire cycle were included as stratified variables to control for age, calendar time, and any possible interactions between these two timescales. ^dModel was additionally adjusted for white race/ethnicity (no or yes), body shape at age 5 (somatogram figure 1, 2, 3, 4 or ≥5), age at menarche (continuous), parental highest education (less than high school, completed high school, more than high school), parents owned a home during infancy (no or yes), parents worked as a professional, manager, or executive during infancy (no or yes), the tier of birth (North, Middle, South, outside of US or uncertain). ^eBased on multivariable models with further adjustment for time-varying BMI (<24.9, 25-29.9, 30-34.9, or ≥35 kg/m²), smoking status (never, former, current 1-34 cigarettes/day, or current ≥35 cigarettes/day), parity (≤1, 2, or ≥3), Alternative Healthy Eating Index 2010 dietary score (five categories), alcohol intake (0, 1-14, ≥15 g/d), oral contraceptive use (never, past, or current), menopausal status (premenopausal, postmenopausal, or uncertain), and postmenopausal hormone use (never, past, or current).

Table S5. Hazard ratio (HR) (95% confidence interval (CI)) for the risk of cause-specific premature mortality (before age 70 y), according to the cumulative history of physical and sexual abuse during childhood or adolescence among 67,726 female nurses (Nurses' Health Study II, 2001-19).

Cause-specific mortality	Cumulative history of physical and sexual abuse					P for trend ^c
	No abuse	Mild or moderate single type	Mild multiple types or severe single type	Moderate chronic or multiple types	Severe chronic and/or multiple types	
Cancer						
Events/crude incidence per 1000 person-years	289/0.70	327/0.74	132/0.72	74/0.80	52/0.86	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	1.03 (0.87 to 1.20)	0.99 (0.80 to 1.21)	1.09 (0.84 to 1.41)	1.03 (0.77 to 1.39)	0.70
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	1.04 (0.89 to 1.22)	1.02 (0.83 to 1.26)	1.06 (0.82 to 1.38)	1.03 (0.76 to 1.39)	0.72
CVD						
Events/crude incidence per 1000 person-years	48/0.12	59/0.13	16/0.09	13/0.14	18/0.30	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	1.12 (0.77 to 1.65)	0.66 (0.37 to 1.16)	1.07 (0.57 to 1.98)	1.98 (1.14 to 3.43)	0.21
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	1.11 (0.75 to 1.63)	0.62 (0.35 to 1.11)	0.87 (0.46 to 1.62)	1.70 (0.97 to 3.00)	0.59
External causes of injury and poisoning						
Events/crude incidence per 1000 person-years	25/0.06	29/0.07	14/0.08	12/0.13	14/0.23	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	1.04 (0.61 to 1.78)	1.18 (0.61 to 2.28)	2.04 (1.02 to 4.09)	3.39 (1.74 to 6.60)	<0.001
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	1.00 (0.58 to 1.71)	1.08 (0.56 to 2.10)	1.85 (0.92 to 3.73)	2.76 (1.40 to 5.44)	0.003
Senility and ill-defined diseases						
Events/crude incidence per 1000 person-years	32/0.08	34/0.08	10/0.05	4/0.04	9/0.15	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	1.01 (0.62 to 1.65)	0.68 (0.33 to 1.39)	0.48 (0.16 to 1.44)	1.67 (0.79 to 3.54)	0.94
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	1.02 (0.62 to 1.67)	0.65 (0.31 to 1.34)	0.34 (0.11 to 1.08)	1.54 (0.72 to 3.32)	0.58
Suicide						
Events/crude incidence per 1000 person-years	13/0.03	16/0.04	6/0.03	4/0.04	10/0.17	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	1.18 (0.57 to 2.46)	0.94 (0.36 to 2.50)	1.29 (0.42 to 4.00)	4.32 (1.85 to 10.08)	0.007
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	1.22 (0.58 to 2.57)	0.99 (0.37 to 2.65)	1.27 (0.40 to 3.98)	3.82 (1.59 to 9.18)	0.02
Respiratory disease						
Events/crude incidence per 1000 person-years	12/0.03	13/0.03	10/0.05	5/0.05	9/0.15	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	0.97 (0.44 to 2.13)	1.65 (0.71 to 3.87)	1.81 (0.63 to 5.17)	3.72 (1.54 to 9.00)	0.002
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	0.90 (0.40 to 1.99)	1.38 (0.58 to 3.28)	1.27 (0.43 to 3.72)	3.12 (1.26 to 7.68)	0.02
Diseases of the digestive system						
Events/crude incidence per 1000 person-years	9/0.02	16/0.04	4/0.02	8/0.09	5/0.08	
HR (95% CI) in multivariable models adjusted for childhood characteristics ^a	1.00 [Reference]	1.68 (0.74 to 3.82)	0.93 (0.29 to 3.05)	3.67 (1.40, 9.63)	3.30 (1.08 to 10.09)	0.01
HR (95% CI) in full models additionally adjusted for adult characteristics ^b	1.00 [Reference]	1.53 (0.66 to 3.54)	0.76 (0.23 to 2.52)	2.69 (0.99 to 7.30)	2.56 (0.81 to 8.10)	0.08

^aModel was adjusted for age (continuous), white race/ethnicity (no or yes), body shape at age 5 (somatogram figure 1, 2, 3, 4 or ≥5), age at menarche (continuous), parental highest education (less than high school, completed high school, or more than high school), parents owned home during infancy (no or yes), parents worked as a professional, manager, or executive during infancy (no or yes), the tier of birth (North, Middle, South, or outside of US or uncertain). ^bBased on multivariable models with further adjustment for time-varying BMI (<24.9, 25-29.9, 30-34.9, or ≥35 kg/m²), smoking status (never, former, current 1-34 cigarettes/day, or current ≥35 cigarettes/day), parity (≤1, 2, or ≥3), Alternative Healthy Eating Index 2010 dietary score (five categories), alcohol intake (0, 1-14, or ≥15 g/d), oral

contraceptive use (never, past, or current), menopausal status (premenopausal, postmenopausal, or uncertain), and postmenopausal hormone use (never, past, or current). ^cP for trend was conducted by modeling the categories of increasing severity of physical and sexual abuse as an ordinal level variable using integer values.

Table S6. Hazard ratio (HR) (95% confidence interval (CI)) for the risk of cause-specific premature mortality (before age 70 y) according to the joint categories of early life physical abuse, sexual abuse, and social support among 67,726 female nurses (Nurses' Health Study II, 2001-19).

Exposure categories	Death cases	Crude incidence per 1000 person-years	HR (95% CI) ^a
Joint categories of physical and sexual abuse			
No physical abuse			
No sexual abuse	950	1.83	1.00 [Reference]
Sexual touching	55	1.86	0.94 (0.72 to 1.24)
Forced sexual activity	12	2.20	0.85 (0.48 to 1.51)
Mild to moderate physical abuse			
No sexual abuse	266	1.82	1.04 (0.90 to 1.19)
Sexual touching	139	1.94	1.00 (0.84 to 1.20)
Forced sexual activity	13	3.20	1.66 (0.96 to 2.88)
Severe physical abuse			
Non sexual abuse	495	2.11	1.12 (1.00 to 1.25)
Sexual touching	374	2.37	1.16 (1.02 to 1.31)
Forced sexual activity	106	4.56	1.94 (1.58 to 2.37)
p for multiplicative interaction	-	-	0.01
RERI (95% CI)	-	-	0.11 (0.04 to 0.18)
p for additive interaction	-	-	0.004
Joint categories of physical abuse and social support			
Receiving social support			
No physical abuse	935	1.80	1.00 [Reference]
Mild to moderate physical abuse	362	1.85	1.05 (0.93 to 1.19)
Severe physical abuse	709	2.19	1.16 (1.05 to 1.28)
Rarely or never receiving social support			
No physical abuse	82	2.27	1.14 (0.91 to 1.43)
Mild to moderate physical abuse	56	2.14	1.06 (0.81 to 1.39)
Severe physical abuse	266	2.89	1.35 (1.17 to 1.55)
p for multiplicative interaction	-	-	0.66
RERI (95% CI)	-	-	0.04 (-0.09 to 0.18)
p for additive interaction	-	-	0.55
Joint categories of sexual abuse and social support			
Receiving social support			
No sexual abuse	1311	1.84	1.00 [Reference]
Sexual touching	622	2.04	1.03 (0.93 to 1.13)
Forced sexual activity	73	3.31	1.42 (1.12 to 1.81)
Rarely or never receiving social support			
No sexual abuse	192	2.35	1.14 (0.98 to 1.32)
Sexual touching	154	2.49	1.11 (0.93 to 1.31)
Forced sexual activity	58	5.39	2.12 (1.62 to 2.77)
p for multiplicative interaction	-	-	0.12
RERI (95% CI)	-	-	0.17 (-0.02 to 0.36)
p for additive interaction	-	-	0.08

RERI: relative excess risk due to interaction.

^aModel was adjusted for age (continuous), white race/ethnicity (no or yes), body shape at age 5 (somatogram figure 1, 2, 3, 4 or ≥5), age at menarche (continuous), parental highest education (less than high school, completed high school, or more than high school), parents owned home during infancy (no or yes), parents worked as a professional, manager, or executive during infancy (no or yes), the tier of birth (North, Middle,

South, or outside of US or uncertain), as well as time-varying BMI (<24.9, 25-29.9, 30-34.9, or ≥ 35 kg/m²), smoking status (never, former, current 1-34 cigarettes/day, or current ≥ 35 cigarettes/day), parity (≤ 1 , 2, or ≥ 3), Alternative Healthy Eating Index 2010 dietary score (five categories), alcohol intake (0, 1-14, or ≥ 15 g/d), oral contraceptive use (never, past, or current), menopausal status (premenopausal, postmenopausal, or uncertain), and postmenopausal hormone use (never, past, or current).

Table S7. Sensitivity analyses for the associations between early life physical and sexual abuse and the risk of all-cause mortality (Nurses' Health Study II, 2001-19).

Physical and sexual abuse	With more stringent adjustments for smoking ^a		Excluding women reporting a diagnosis of CVD or cancer in 2001 ^b		Including death at any ages ^b		Including premature death before age 65 years ^b		Based on full models with mutual adjustment for the other early-life abuse (physical or sexual abuse) ^c	
	Death cases	HR (95% CI)	Death cases	HR (95% CI)	Death cases	HR (95% CI)	Death cases	HR (95% CI)	Death cases	HR (95% CI)
The severity of physical abuse										
None	1017	1 [Reference]	793	1 [Reference]	1068	1 [Reference]	806	1 [Reference]	1017	1 [Reference]
Mild physical abuse	418	1.02 (0.91 to 1.15)	322	1.03 (0.90 to 1.17)	434	1.03 (0.92 to 1.16)	321	1.01 (0.88 to 1.14)	418	1.04 (0.93 to 1.16)
Moderate physical abuse	652	1.10 (0.99 to 1.21)	507	1.11 (1.00 to 1.25)	685	1.11 (1.01 to 1.22)	503	1.07 (0.96 to 1.20)	652	1.10 (1.00 to 1.22)
Severe physical abuse	323	1.37 (1.20 to 1.55)	241	1.43 (1.23 to 1.65)	330	1.38 (1.22 to 1.57)	254	1.41 (1.22 to 1.63)	323	1.40 (1.23 to 1.60)
P for trend		<0.001		<0.001		<0.001		<0.001		<0.001
The severity of sexual abuse										
None	1503	1 [Reference]	1151	1 [Reference]	1571	1 [Reference]	1191	1 [Reference]	1503	1 [Reference]
Sexual touching as a child or adolescent	530	0.98 (0.89 to 1.08)	432	1.08 (0.96 to 1.20)	549	0.98 (0.89 to 1.08)	396	0.95 (0.84 to 1.06)	530	0.98 (0.89 to 1.08)
Forced sexual activity as a child or adolescent	246	1.07 (0.93 to 1.23)	193	1.17 (1.00 to 1.37)	261	1.13 (0.99 to 1.29)	186	1.06 (0.90 to 1.23)	246	1.08 (0.94 to 1.24)
Forced sexual activity as a child and adolescent	131	1.61 (1.34 to 1.93)	87	1.52 (1.22 to 1.90)	136	1.64 (1.37 to 1.95)	111	1.75 (1.44 to 2.14)	131	1.59 (1.32 to 1.91)
P for trend		<0.001		<0.001		<0.001		<0.001		<0.001

^aModel was adjusted for age (continuous), white race/ethnicity (no or yes), body shape at age 5 (somatogram figure 1, 2, 3, 4 or ≥5), age at menarche (continuous), parental highest education (less than high school, completed high school, or more than high school), parents owned a home during infancy (no or yes), parents worked as a professional, manager, or executive during infancy (no or yes), the tier of birth (North, Middle, South, or outside of US or uncertain), as well as time-varying BMI (<24.9, 25-29.9, 30-34.9, or ≥35 kg/m²), smoking status (never, former, current), pack-years of smoking (continuous), the square of pack-years (continuous), parity (≤1, 2, or ≥3), Alternative Healthy Eating Index 2010 dietary score (five categories), alcohol intake (0, 1-14, or ≥15 g/d), oral contraceptive use (never, past, or current), menopausal status (premenopausal, postmenopausal, or uncertain), and postmenopausal hormone use (never, past, or current).

^bModel was adjusted for age (continuous), white race/ethnicity (no or yes), somatogram at age 5 (figure 1, 2, 3, 4 or ≥5), age at menarche (continuous), parental highest education (less than high school, completed high school, or more than high school), parents owned a home during infancy (no or yes), parents worked as a professional, manager, or executive during infancy (no or yes), tier of birth (North, Middle, South, or outside of US or uncertain), as well as time-varying BMI (<24.9, 25-29.9, 30-34.9, or ≥35 kg/m²), smoking status (never, former, current 1-34 cigarettes/day, or current ≥35 cigarettes/day), parity (≤1, 2, or ≥3), Alternative Healthy Eating Index 2010 dietary score (five categories), alcohol intake (0, 1-14, or ≥15 g/d), oral contraceptive use (never, past, or current), menopausal status (premenopausal, postmenopausal, or uncertain), and postmenopausal hormone use (never, past, or current).

^cModel was adjusted for age (continuous), white race/ethnicity (no or yes), somatogram at age 5 (figure 1, 2, 3, 4 or ≥5), age at menarche (continuous), parental highest education (less than high school, completed high school, or more than high school), parents owned a home during infancy (no or yes), parents worked as a professional, manager, or executive during infancy (no or yes), tier of birth (North, Middle, South, or outside of US or uncertain), as well as time-varying BMI (<24.9, 25-29.9, 30-34.9, or ≥35 kg/m²), smoking status (never, former, current 1-34 cigarettes/day, or current ≥35 cigarettes/day), parity (≤1, 2, or ≥3), Alternative Healthy Eating Index 2010 dietary score (five categories), alcohol intake (0, 1-14, or ≥15 g/d), oral contraceptive use (never, past, or current), menopausal status (premenopausal, postmenopausal, or uncertain), postmenopausal hormone use (never, past, or current), and the other early-life abuse (physical or sexual abuse).