

ACE-Associated Health Conditions: Pediatrics

Symptom or Health Condition	For ≥ X ACEs (compared to 0)	Odds Ratio
Asthma ^{26, 33}	4	1.7 - 2.8
Allergies ³³	4	2.5
Dermatitis and eczema ³⁹	3*	2.0
Urticaria ³⁹	3*	2.2
Increased incidence of chronic disease, impaired management ²⁵	3	2.3
Any unexplained somatic symptoms ²⁵ (eg, nausea/vomiting, dizziness, constipation, headaches)	3	9.3
Headaches ³³	4	3.0
Enuresis; encopresis ⁵	--	--
Overweight and obesity ³	4	2.0
Failure to thrive; poor growth; psychosocial dwarfism ^{5, 2, 41}	--	--
Poor dental health ^{16, 22}	4	2.8
Increased infections ³⁹ (viral, URIs, LRTIs and pneumonia, AOM, UTIs, conjunctivitis, intestinal)	3*	1.4 - 2.4
Later menarche ⁴⁰ (≥ 14 years)	2*	2.3
Sleep disturbances ^{5, 31}	5**	PR 3.1
Developmental delay ³⁰	3	1.9
Learning and/or behavior problems ³	4	32.6

*Odds ratio represents at least one ACE, but also includes other adversities

**Prevalence ratio represents at least one ACE, but also includes other adversities

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Symptom or Health Condition	For ≥ X ACEs (compared to 0)	Odds Ratio
Repeating a grade ¹⁵	4	2.8
Not completing homework ¹⁵	4	4.0
High school absenteeism ³³	4	7.2
Graduating from high school ²⁹	4	0.4
Aggression; physical fighting ²⁸	For each additional ACE	1.9
Depression ²⁹	4	3.9
ADHD ⁴²	4	5.0
Any of: ADHD, depression, anxiety, conduct/behavior disorder ³⁰	3	4.5
Suicidal ideation ²⁸	For each additional ACE	1.9
Suicide attempts ²⁸	For each additional ACE	1.9 - 2.1
Self-harm ²⁸	For each additional ACE	1.8
First use of alcohol at < 14 years ⁷	4	6.2
First use of illicit drugs at < 14 years ¹⁰	5	9.1
Early sexual debut ²¹ (<15-17 y)	4	3.7
Teenage pregnancy ²¹	4	4.2

*Odds ratio represents at least one ACE, but also includes other adversities

**Prevalence ratio represents at least one ACE, but also includes other adversities

ACE-Associated Health Conditions: Adults

Symptom or Health Condition	Odds Ratio (excluding outliers)
Cardiovascular disease ²¹ (CAD, MI, ischemic heart disease)	2.1
Tachycardia ³⁷	≥ 1 ACE: 1.4
Stroke ²⁰	2.0
Chronic obstructive pulmonary disease (emphysema, bronchitis) ²¹	3.1
Asthma ⁴³	2.2
Diabetes ²¹	1.4
Obesity ²⁰	2.1
Hepatitis or jaundice ¹	2.4
Cancer, any ²¹	2.3
Arthritis ^{32,7} (self-reported)	3 ACEs, HR: 1.5 ≥ 1 ACE: 1.3
Memory impairment ²⁰ (all causes, including dementias)	4.9
Kidney disease ⁴³	1.7
Headaches ¹¹	≥ 5 ACEs: 2.1
Chronic pain, any ³⁸ (using trauma z-score)	1.2
Chronic back pain ³⁸ (using trauma z-score)	1.3
Fibromyalgia ³⁷	≥ 1 ACE: 1.8
Unexplained somatic symptoms, including somatic pain, headaches ^{20,2}	2.0 - 2.7
Skeletal fracture ¹	1.6 - 2.6 ²⁰
Physical disability requiring assistive equipment ²³	1.8

Odds ratios compare outcomes in individuals with > 4 ACEs to those with 0 ACEs, except where specified

ACE-Associated Health Conditions: Adults

Symptom or Health Condition	Odds Ratio (excluding outliers)
Depression ²¹	4.7
Suicide attempts ²¹	37.5
Suicidal ideation ²⁰	10.5
Sleep disturbance ²⁰	1.6
Anxiety ²¹	3.7
Panic and anxiety ²⁰	
Post-traumatic stress disorder ³⁷	4.5
Illicit drug use ²¹ (any)	5.2
Injected drug, crack cocaine, or heroin use ²¹	10.2
Alcohol use ²¹	6.9
Cigarettes or e-cigarettes use ³⁵	6.1
Cannabis use ³⁵	11.0
Teen pregnancy ²¹	4.2
Sexually transmitted infections, lifetime ²¹	5.9
Violence victimization ²¹ (intimate partner violence, sexual assault)	7.5
Violence perpetration ²¹	8.1

Odds Ratios for individuals with > 4 ACEs, except where specified otherwise, all compared to 0 ACEs

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