Roll call: A Scoping Review for School Attendance Problems Among Youth

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Introduction

The emergence of the COVID-19 pandemic shed light upon the issue of school attendance like never before. Beginning in 2020, school closures were implemented worldwide to mitigate the spread of COVID-19, and learning in virtual classrooms became the new normal. At the height of the pandemic in 2020, school closures interfered with the learning of nearly 1.6 billion students across 190 countries, corresponding to over 90% of the global population of learners (UNESCO, 2020; UN, 2020). By mid-September 2021, children and adolescents (hereafter referred to as 'youth') had missed an average of 4.5 months of school since the start of the pandemic, though school closure lengths varied according to the region (UNESCO, 2020).

It is well-documented in the literature that regular school attendance is central to the psychosocial development of youth, especially considering the variety and depth of social experiences that the school context has to offer (Roeser et al., 2000). Thus, concerns around the negative impact of missed school for youth are growing, and this has become a topic of increased media attention (e.g., Histrova, 2020). The circumstances around COVID-19 are unprecedented, and the full scope of the impacts for youth are unknown (UNESCO, 2020). Nonetheless, school attendance problems (SAPs) themselves have been a prevalent issue for decades, and their numerous adverse consequences are documented in the literature. For example, it has been established that SAPs are associated with the onset and exacerbation of mental health difficulties (Egger et al., 2003; Gottfried, 2014; Wood et al., 2012). It is estimated that between 15% and 30% of youth in Canada are struggling with mental health difficulties, and SAPs are both a major

contributor and consequence of the ongoing and ever-growing mental health crisis worldwide (CMHA, 2020; U.S. Department of Education, 2016).

SAPs have been a topic of discussion amongst educators, policymakers, and researchers for decades. Thus, they have been examined by researchers from diverse academic and professional disciplines, including psychology, education, social/criminal justice, and medicine, amongst others (Heyne et al., 2019; Kearney, 2003, 2008). As a result, varying perspectives exist regarding how to define, conceptualize, measure, and intervene in SAPs. This is reflected in the range of terms that have been developed to capture school absenteeism, many of which are used inconsistently across publications. Unfortunately, the plethora of divergent approaches to the study of SAPs has contributed to poor comparability and limited integration across disciplines to date. This complicates our efforts towards understanding, assessing, and intervening in SAPs. Given growing concerns around the adverse consequences of SAPs for youth, an interdisciplinary lens that would contribute to greater shared understanding is more urgent than ever (Heyward, 2021).

Research Objective

To begin addressing these concerns, the present study will synthesize the extant literature on SAPs among high school youth using a scoping review methodology. It will focus specifically on how school absenteeism is conceptualized, operationally defined, assessed, and measured across various disciplines that usually do not intersect, including psychology, education, medicine, criminology, social work, and sociology. The specific research objectives of the present study are to (a) display the full range of ways that SAPs among high school students are treated in the literature, including conceptualizations, operational definitions, and assessment and measurement tools, (b) present notable points of consensus about the nature of

SAPs within and across research fields and professional disciplines, and (c) identify gaps in the extant literature on SAPs and suggest future directions for research, policy, and practice.

Methodology

The scoping review aims to synthesize or 'map' relevant literature in a particular field of interest (Arksey & O'Malley, 2005). Its purpose is to determine the scope, variety, and nature of evidence on a topic, summarize findings from a body of knowledge that is heterogeneous in nature, and identify gaps in the literature to guide future research directions (Arksey & O'Malley, 2005; Tricco et al., 2018). I deemed the scoping review methodology to be most aligned with the objectives of this study because the intention was to report and discuss key definitions, conceptualizations, measurement tools, and interventions related to absenteeism, as well as to identify common variables linked with SAPs. The purpose of this study was not to address the feasibility, appropriateness, meaningfulness, or effectiveness of any method, intervention, or treatment related to SAPs, which is a typical objective of quantitative synthesis methodologies like meta-analysis (Munn et al., 2018).

Inclusion Criteria

Studies were eligible for inclusion if they met the following criteria:

- 1) Language: published in English;
- 2) Year: published over the last 11 years (since 2012, inclusive);
- 3) Publication type: peer-reviewed empirical articles based on qualitative and/or quantitative research methods from any journal and any country. Theses and dissertations, theoretical papers, review articles, government reports, and books were not included;
- 4) Topic: school absenteeism was a central concept, meaning that a discussion of its conceptualization, operationalization, and measurement was featured in the text;

- 5) Accessibility: for full-text screening, studies were accessible online or in libraries accessible to one of the authors;
- 6) Population: study subjects or participants were youth in secondary schools, roughly capturing students in grades 7 through 12.

I chose to examine English-language studies exclusively because this is the language in which I am fluent. I also restricted my search to studies published since 2012 in order to exclude literature containing outdated terms, definitions, measurement tools, and interventions, as these have evolved dramatically over the years and continue to increase in complexity (Kearney, 2008). I also focused solely on empirical articles (not theoretical or review articles) because I was interested in mapping and reporting the ways in which SAPs are conceptualized, defined, assessed, and measured by researchers working with data derived directly from secondary school students. It was also a requirement for empirical articles to be peer-reviewed. Grey literature was excluded because it would have imposed considerable time and resource demands (Mahood et al., 2014). Finally, I restricted the population to youth in secondary schools for this review. SAPs among elementary school students were examined in a previous study (see Smith et al., 2022). I chose to examine these populations separately because differences in the frequency and nature of school absenteeism between primary and secondary students have been documented (e.g., Hancock et al., 2013; U.S. Department of Education, 2016). For example, research reports show that while school attendance rates tend to be relatively stable in primary school, they drop in secondary school, with rates of unauthorized absences increasing significantly (Hancock et al., 2013, p, 39; U.S. Department of Education, 2016).

Literature Search

In order to review absenteeism literature across the fields of education, psychology, criminology, sociology, and medicine, I systematically searched the following databases in May 2023: 1) ERIC (OVID), 2) PsycInfo (OVID), 3) Criminal Justice Abstracts, 4) Sociological Abstracts, 5) Medline. I created search terms and phrases for this systematic search with the assistance of a university research librarian, who specializes in document search methods. They were modified according to each database's thesaurus and subject headings. All search strategies included two main components. The first component was dedicated to capturing SAPs and included some or all of the following concepts: school attendance, school absenteeism, school attendance problems, truancy, school refusal, school phobia, suspension, and expulsion. These concepts were coded as search terms (e.g., truan* was used to include all versions of the word, like truancy and truant) and as subject headings, where possible. The second component was dedicated to capturing youth in secondary schools. Similarly, I used search terms and subject headings such as "secondary education", "secondary schools", and "secondary school students" to capture the secondary student population, which roughly spans students in grades 7 to 12. Variations of these subject headings were created using the terms "junior high school" and "high school" as well. Tables 1 through 5 outline the specific search strategies used for each database.

Screening

The search yielded 1285 publications: ERIC (233), PsycInfo (130), Criminal Justice Abstracts (293), Sociological Abstracts (195), and Medline (278). After removing duplicates, 1121 articles were available for screening. Next, Covidence, a web-based software platform designed to streamline the process of research reviews, was used to conduct a two-step screening process: 1) title and abstract review and 2) full text review. At Step 1, publication titles and abstracts were reviewed according to the eligibility criteria stated above. When I was uncertain

about whether a publication met inclusion criterion four (i.e., absenteeism/attendance was a central concept in the study), I chose to review it during full-text screening to minimize error. I also chose to include studies with mixed samples of middle and high school students (inclusion criterion six, study population). A clear division between elementary, middle, and high school does not always exist, and when it does, it tends to vary by province/state and country. Taking an inclusive approach allowed me to include a significant number of relevant studies in the final sample. At Step 2, the full text version of each article was reviewed, with data extraction occurring concurrently. 244 studies were included in the final sample. Figure 1 shows the PRISMA diagram for this screening process.

Data Extraction and Synthesis

An Excel spreadsheet (see Appendix A) was developed to record data extracted from the selected 244 articles. The data coded into the spreadsheet was categorized into 1) study characteristics and 2) absenteeism-relevant information. Study characteristics included research design, theoretical or conceptual framework (if specified), geographical location, data collection setting, and participant characteristics (e.g., sample size, participant type, informant type, age range). Absenteeism-relevant information included conceptualization, operationalization, and measurement, as well as intervention and themes or outcome variables linked with SAPs, where available. The coding process for absenteeism-relevant information was guided by the conceptual framework proposed by Heyne et al. (2019), which organizes SAPs into four predominant types: 1) school refusal, 2) school truancy, 3) school withdrawal, and 4) school truancy. A fifth category titled "undifferentiated" was added to capture circumstances in which the reason for absence was unclear or not specified by the study's authors.

Table 1

ERIC OVID Search Strategy

Line	Term or phrase	Results (#)
1	Truancy/	905
2	School phobia/	166
3	Suspension/	2035
4	Expulsion/	1102
5	(school* adj2 (absen* or non-attend* or refus* or phobi* or	2673
	truan* or suspen* or expel* or expulsion* or exclude* or	
	exclusion* or withdraw*)).ti,ab.	
6	("school attendance" adj2 (problem* or difficult* or	64
	concern* or issue*)).ti,ab.	
7	1 or 2 or 3 or 4 or 5 or 6	4995
8	exp Secondary Education/	97698
9	schools/ or private schools/ or public schools/ or junior high	99952
	schools/ or high schools/ or secondary schools/	
10	junior high school students/ or high school students/ or	75412
	secondary school students/	
11	(school* or class or classes or classroom*).ti,ab.	750349
12	((school* or secondary or grade*) adj2 (student* or	112161
	adolescent*)).ti,ab.	
13	attendance/	5848
14	8 or 9 or 10 or 11 or 12	826565
15	13 and 14	4944
16	7 and 15	902
17	limit 16 to (english language and journal articles and	233
	yr="2012 - 2022")	

Table 2PsycInfo OVID Search Strategy

Line	Term or phrase	Results (#)
1	School truancy/	601
2	School refusal/	468
3	School phobia/	376
4	School suspension/	557
5	School expulsion/	257
6	(school* adj2 (absen* or non-attend* or refus* or phobi* or truan*	4273
	or suspen* or expel* or expulsion* or exclude* or exclusion* or	
	withdraw*)).ti,ab.	
7	("school attendance" adj2 (problem* or difficult* or concern* or	117
	issue*)).ti,ab.	
8	1 or 2 or 3 or 4 or 5 or 6 or 7	5041
9	exp Secondary Education/	7488
10	schools/ or private schools/ or public schools/ or junior high	39298
	schools/ or high schools/ or secondary schools/	
11	junior high school students/ or high school students/ or secondary	43296
	school students/	
12	(school* or class or classroom*).ti,ab.	594405
13	((school* or secondary or grade*) adj2 (student* or	90454
	adolescent*)).ti,ab.	
14	School attendance/	2641
15	9 or 10 or 11 or 12 or 13	614855
16	14 and 15	2337
17	8 and 16	577
18	limit 17 to (english language and "0100 journal" and	174
	yr="2012 - 2022")	

Table 3

Criminal Justice Abstracts Search Strategy

Line	Term or phrase	Results (#)
S1	SU school attendance or SU school absenteeism	244
S2	SU school phobia or SU exclusion from school or SU student	130
	suspension or SU student expulsion	
S3	TI (school* N2 (absen* or non-attend* or refus* or phobi* or	569
	truan* or suspen* or expel* or expulsion* or exclude* or	
	exclusion* or withdraw*)) or AB (school* N2 (absen* or non-	
	attend* or refus* or phobi* or truan* or suspen* or expel* or	
	expulsion* or exclude* or exclusion* or withdraw*))	
S4	TI ("school attendance" N2 (problem* or difficult* or concern*	10
	or issue*)) or AB ("school attendance" N2 (problem* or	
	difficult* or concern* or issue*))	
S5	S1 or S2 or S3 or S4	802
S6	SU secondary education	443
S7	SU schools or SU private schools or SU public schools or SU	14644
	junior high schools or SU high schools or SU secondary schools	
S8	SU junior high school students or SU high school students	2087
S9	TI (school* or class or classes or classroom*) or AB (school* or	47049
	class or classes or classroom*)	
S10	TI ((school* or secondary or grade*) N2 (student* or	6928
	adolescent*)) or AB ((school* or secondary or grade*) N2	
	(student* or adolescent*))	
S11	S6 or S7 or S8 or S9 or S10	49719
S12	S5 and S11	794
S13	Limit S12 to English language, academic journal, and published	309
	between 2012-2022	

Table 4Sociological Abstracts Search Strategy

Line	Term or phrase
S1	MAINSUBJECT.EXACT("School Attendance")
S2	MAINSUBJECT.EXACT("Absenteeism")
S3	MAINSUBJECT.EXACT("Truancy")
S4	TI (school* N2 (absen* or non-attend* or refus* or phobi* or truan* or
	suspen* or expel* or expulsion* or exclude* or exclusion* or withdraw*)) or
	AB (school* N2 (absen* or non-attend* or refus* or phobi* or truan* or
	suspen* or expel* or expulsion* or exclude* or exclusion* or withdraw*))
S5	TI ("school attendance" N2 (problem* or difficult* or concern* or issue*)) or
	AB ("school attendance" N2 (problem* or difficult* or concern* or issue*))
S6	S1 or S2 or S3 or S4 or S5
S7	MAINSUBJECT.EXACT("Secondary Education")
S8	MAINSUBJECT.EXACT("Schools") OR MAINSUBJECT.EXACT("Public
	Schools") OR MAINSUBJECT.EXACT("Private Schools") OR
	MAINSUBJECT.EXACT("Junior High Schools") OR
	MAINSUBJECT.EXACT("High Schools") OR
	MAINSUBJECT.EXACT("Secondary Schools")
S9	MAINSUBJECT.EXACT("Junior High School Students") or
	MAINSUBJECT.EXACT("High School Students")
S10	TI ((school* or secondary or grade*) N2 (student* or adolescent*)) OR AB
	((school* or secondary or grade*) N2 (student* or adolescent*))
S11	TI (school* OR class OR classes OR classroom*) OR AB (school* OR class
	OR classes OR classroom*)
S12	S7 or S8 or S9 or S10 or S11
S13	S6 and S12
S14	limit S13 to (english language and yr="2012 - 2022" and scholarly journal)

Note. The number of results per search line is unavailable for reporting.

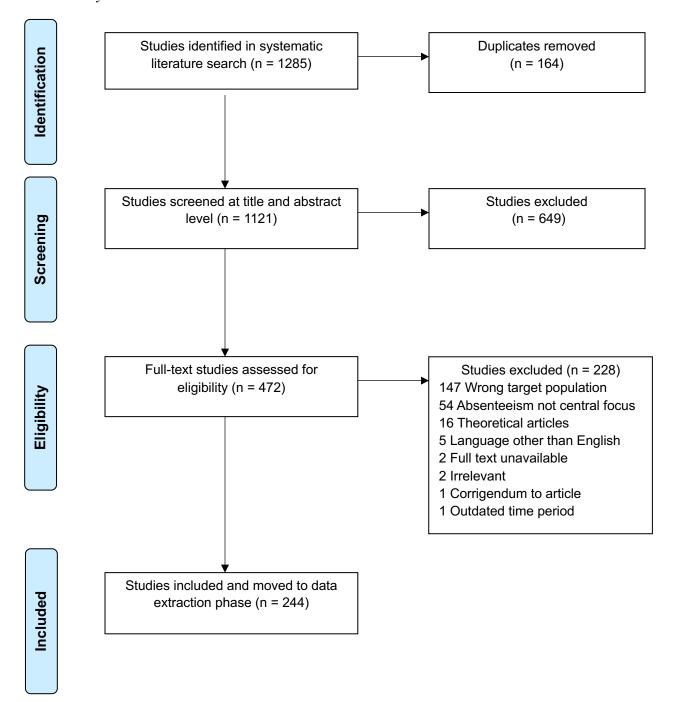
Table 5

MEDLINE OVID Search Strategy

Line	Term or phrase	Results (#)	
1	(school* adj2 (absen* or non-attend* or refus* or phobi* or truan* or suspen* or expel* or expulsion* or exclude* or exclusion* or withdraw*)).ti,ab.	3684	
2	("school attendance" adj2 (problem* or difficult* or concern* or issue*)).ti,ab.	70	
3	1 or 12	3722	
4	Education/	21519	
5	("junior high school education" or "high school education" or "secondary school education" or "secondary education").ti,ab.	7532	
6	Schools/	50936	
7	("private schools" or "public schools" or "junior high schools" or "high schools" or "secondary schools").ti,ab.	17986	
8	Students/ or Adolescents/	2255583	
9	("junior high school students" or "high school students" or "secondary school students").ti,ab.	14820	
10	((school* or secondary or grade*) adj2 (student* or adolescent*)).ti,ab.	40146	
11	(school* or class or classroom*).ti,ab.	964009	
12	Absenteeism/	9751	
13	4 or 5 or 6 or 7 or 8 or 9 or 10 or 11	3081965	
14	12 and 13	3117	
15	3 and 14	815	
16	limit 15 to (english language and yr="2012 - 2022" and journal article)	^a 353	

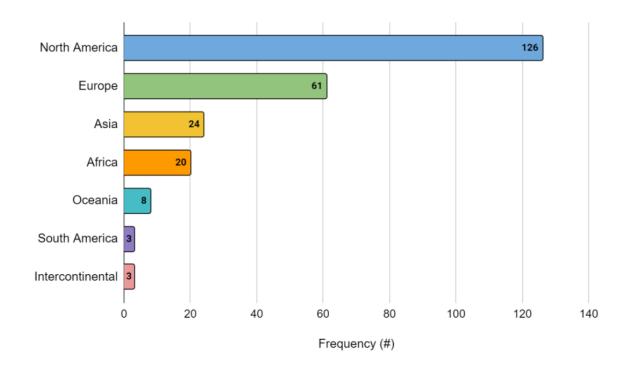
^a This search originally yielded 354 results, however, one article was retracted due to an error made in the evaluation of the data or calculations.

Figure 1
Study Selection Flowchart



Results

Figure 2
Study Distribution by Continent



Note. An "intercontinental" study is one that collects data across two or more continents.

Approximately half (51.6%) of the 244 studies reviewed were conducted in North America (see Figure 2). Among these studies, 98% were conducted in the United States and 2% in Canada. The predominant research design was quantitative (86%). Only 91 studies (37%) explicitly cited a theoretical/conceptual framework, and four stood out as being most frequently cited (see Table 6). School was a primary data collection setting in 193 studies (79%). Researchers also collected data online, at community agencies, medical sites, family homes, research facilities, and juvenile justice facilities. Participants were primarily middle and/or high school students, roughly spanning grades 6 through 12. Some studies incorporated

parents/caregivers, school personnel, and/or community workers as informants in their samples, all of whom had personal experience with youth struggling with school absenteeism.

Table 6Most Frequently Cited Frameworks

Framework	Frequency
Life-course theory of	9
cumulative disadvantage	
Labeling theory of	5
delinquency	
Interdisciplinary model of	5
school absenteeism	
Ecological systems theory	5

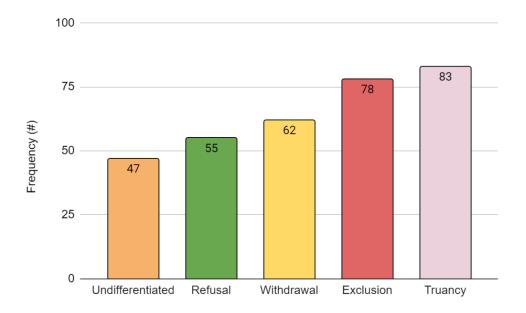
Conceptualization

Next, findings indicate that the two most frequent conceptualizations for SAPs were school truancy and school exclusion (see Figure 3). Heyne et al. (2019) define school truancy as absence from school that occurs without knowledge or permission from parents and is not legitimately excused by school officials, medical practitioners, or state law. This often takes the form of skipping classes, leaving school early, or missing entire school days. School exclusion is defined as school-based decision making that centers around the use of disciplinary measures, the need to satisfy academic performance requirements, and/or a lack of willingness to accommodate students' special needs, thereby excluding students from instructional and social opportunities on school grounds (Heyne et al., 2019). Two common forms of school exclusion

are suspension and expulsion. Although school truancy and exclusion stood out in the literature, all five categories were employed frequently.

Figure 3

Conceptualization of SAPs by Category



Note. Total instances exceed 244 because some studies used multiple conceptualizations.

Operationalization

Following this, school absenteeism was most frequently operationalized by 1) type of absenteeism or 2) number of school hours and/or days missed in a specified period (see Table 7). The category "type of absenteeism" refers to circumstances in which researchers identified and studied a particular absence problem (e.g., school refusal) but did provide an operational definition (i.e., did not quantify absenteeism). This form of operationalization appears to be common among 1) qualitative studies, in which participants are interviewed about SAPs, 2) studies that specifically recruit participants with SAPs (e.g., from truancy diversion programs or family courts and services centers), and 3) studies in which the presence of an absence problem

is determined by responding "yes" to a single item measure (e.g., "have you ever received an out-of-school suspension during the past year?")

Table 7Operationalization of School Absenteeism and Attendance

Operationalization	Frequency
Type absenteeism	157
# hours and/or days absent	134
# hours and/or days absent + type absenteeism	68
# disciplinary incidents	16
# days attended	7
Not specified	4

Note. Total instances exceed 244 because some studies used multiple operational definitions

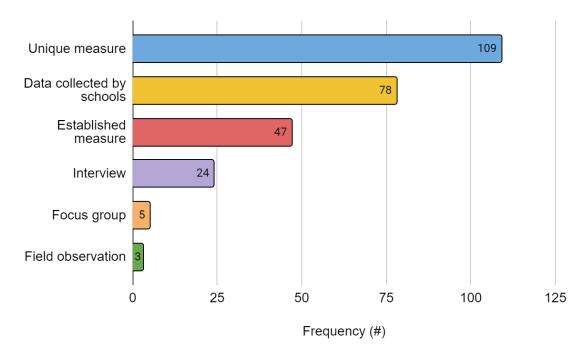
Measurement

Furthermore, the most common measure type for absenteeism was the unique measure (see Figure 4), which refers to any self-report item, scale, or questionnaire that was developed for a specific research project and had no prior psychometric evidence to support its validity. This finding is supported by the fact that youth were the most common informant for the measurement of absenteeism (see Figure 5). Notably, while approximately 46.6% of studies employed a unique measure to assess absenteeism, only 19% used established measures with psychometric validity. The second most common measure of absenteeism was data routinely collected by schools. In this scenario, researchers accessed databases containing official school

records to find absenteeism or attendance rates (typically organized by academic year), which was then reported in their study.

Figure 4

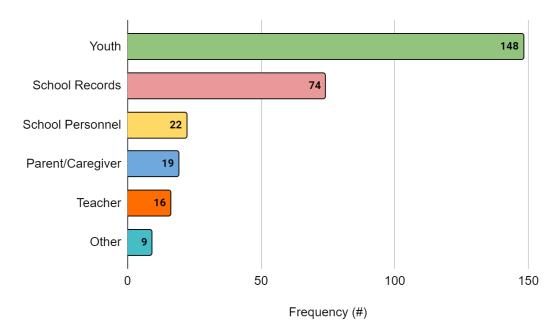
Absenteeism/Attendance Measure Type



Note. Total instances exceed 244 because some studies used multiple measure types.

Figure 5

Absenteeism/Attendance Informant Type



Note. Total instances exceed 244 because some studies used multiple measure types.

84 studies (about 34%) chose a reporting interval of one regular/academic year, which aligns with the frequent use of unique measures and official school records as measurement tools/sources. Unique measures were often a single yes/no question requiring participants to report, for example, whether they had ever 'played truant' or 'received an out-of-school suspension' in the past year. As for school records, they are typically organized by academic year. Similarly, one academic semester was sometimes selected as a reporting interval (4%). However, the remaining 150 studies selected seemingly arbitrary reporting intervals, such as x days (4.5%), 1 month (18%), x months (11%), lifetime (8%), or x years (1%), where x represents an arbitrary number. Overall, these measurement-related findings indicate significant reliance on participant self-report in the measurement of school attendance or absence.

Interventions and Variables Linked with SAPs

Thirty-nine of the studies included in this scoping review (16%) measured attendance or absenteeism in the context of an intervention. Nine studies introduced novel interventions, meaning they had no previous citation history. The interventions employed in these studies varied greatly, meaning that no particular intervention was cited more than a few times across the 244 studies reviewed. The types of interventions employed in these studies can be broadly classified into four categories: 1) mental health, 2) physical health, 3) school engagement, climate, and safety, and 4) education/employment. See Table 8 for examples of interventions that fall under each category. Finally, themes (qualitative) and outcome variables (quantitative) linked with SAPs were identified and classified into nine domains: 1) psychological/behavioural, 2) physical health, 3) family, 4) social-cultural identity, 5) school climate and safety, 6) school academics, 7) criminal justice, 8) macrosystemic factors, and 9) adulthood outcomes. See Table 9 for a list of specific examples from each domain.

 Table 8

 Types of Interventions Targeting Absenteeism or Attendance

Domain	Nature of intervention
Mental health	 Substance abuse recovery Family therapy Cognitive behavioural Behavioural intervention for school refusal Mindfulness and emotion regulation training
Physical health	 Menstrual hygiene education/management Pain rehabilitation program Health consultations with school nurse Implementation of school-based health centers
School engagement, climate, and safety	 Goal setting, social and communication skills Promotion of positive school environment Increased school resource officers Truancy intervention (e.g., education about school attendance laws, creation of child-focused action plan, petition to juvenile justice court)
Education/employment	 Academic mentoring and support Experiential learning Financial literacy College preparation Employment program

Table 9Categories of Variables Linked to SAPs

Domain	Quantitative	Qualitative
Psychological/behavioural	 Mental health difficulties Sexual risk behaviors Interpersonal difficulties Violent/delinquent behaviour 	Mental health difficultiesFuture-oriented stressRelationship struggles
Physical health	MenstruationSleep difficultiesIllness/injury	MenstruationChronic illness
Family	 Parent mental health difficulties Negative parental attitudes or lack of involvement in school Low parental education Parental unemployment Youth involvement in household chores or caretaking Parental incarceration 	 Negative parental attitudes towards education Parental health issues Cultural and language barriers Parental unemployment Strained relationships between family and school
Social-cultural identity	 Identity-related discrimination: a) Racial/ethnic minority b) Sexual or gender minority c) Disability status d) Religious affiliation 	 Identity-related discrimination a) Racial/ethnic minority b) Immigrant status c) Learning disability
School climate and safety	 Negative school climate Perceived lack of safety due to bullying and violence Large school size 	 Bullying and violence Lack of teacher support Large classroom size Infrequent contact with counselors

School academics	 Poor relationships with teachers Lack of motivation or engagement Lower academic outcomes School dropout 	 Strained family-school relationships Academic difficulties/failure School dropout
Criminal justice	 Criminal activity Arrest Incarceration	Criminal activity
Macrosystemic factors	 Absence of state antidiscrimination policy Low socioeconomic status Neighborhood crime 	 Family low income status Inability to pay school fees Unequal access to support services and resources
Adulthood outcomes	 Unemployment status Low likelihood of postsecondary schooling Low participation in political activities Homelessness 	N/A

Conclusions and Implications

- There is an urgent need for more Canadian research on school absenteeism to better inform the policy and intervention efforts of schools and family-serving community agencies.

 Without Canadian empirical knowledge, efforts towards addressing school absenteeism will be heavily informed by American research. Given the significant differences between the economic and socio-political situations of the two countries, transferability of findings is questionable (Birioukov, 2021).
- Research on SAPs is primarily quantitative in nature and is typically conducted in schools. More qualitative research that explores the lived experiences of children and families in relation to school absenteeism would expand the existing knowledge base. Also, a greater body of research conducted with clinical samples of youth is of special importance to community service providers and the families they serve.
- The "story of who misses school" requires our undivided attention. Given that rates of school truancy and exclusion are disproportionately high among Black, Latinx, and Indigenous youth, those with disabilities, and those experiencing mental health difficulties, it is imperative that we address equity in order to improve school attendance (Algozzine et al., 2011; Anderson & Ritter, 2016; Gottfried & Hutt, 2019).
- Most studies used either researcher-developed measures with no known scientific foundation and/or official school records to measure SAPs. Also, they often used a single-item yes/no measure to establish the presence of an attendance problem. Notably, only about one-fifth of studies used established and validated scales for their research. Exclusive reliance on these methods poses a threat to the integrity of absenteeism research, and limits the utility of findings generated from these studies. The development and implementation of empirically validated and multi-item measures needs to be a priority for the field of SAPs.

• Finally, when we compare the nature of existing interventions for SAPs with the complex array of factors linked with SAPs in the extant literature, it is evident that we attribute importance to a child's immediate contexts (i.e., micro- and meso- systems) but often forego influential factors at the exo-, macro-, and exo- system levels. While individual, family, and school-based prevention and intervention efforts to reducing school absenteeism are necessary, they are insufficient. Future research may benefit from taking a bioecological systems approach to the study of SAPs (Melvin et al., 2019). Also, special consideration should be paid to addressing and reducing structural and environmental inequalities in order to effectively reduce SAPs (Singer et al., 2021).

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Data Charting Table

D 0	5 .			Data	Participant			Conceptualiz	zation		Operational	
Reference	Design	esign Framework	Location	setting	collection	School refusal	School truancy	School withdrawal	School exclusion	Undiffer- entiated	Definition	M
(Ahn & Simpson, 2013)	Quant cross- sectional	N/A	United States	Alternative School	48 students across grades 7-9 (50% White, 85.4% Male) with disabilities (emotional disturbance, ADHD, learning disability, autism, traumatic brain injury, mental retardation) and from a low SES background.				X	X	-Number of missed school days in 4-month period -Hours spent for in-school suspension in 4- month period -Days spent for out-of school suspension in 4- month period	Informati school re
(Attwood & Croll, 2014)	Quant longitudina l	N/A	England	School	21000 youth in year 10 who were followed from age 14-15 until age 20- 21		X				Answering yes to the question of whether they had been truant in the past academic year (at least one instance)	Establish scale/que Departme Education Longitud Young Pe England. www.edu /research
(Baker & Bishop, 2015)	Qualitative	Interpretive Phenomenolo gical Analysis (IPA)	England	Family home	Four children aged 11-16 years who previously attended local authority comprehensive schools, now receiving support from a Home Education service due to non-attendance	X					Experienced attendance difficulties lasting at least one term	Qualitati

(Balkis, 2018)	Quant cross- sectional	N/A	Turkey	School	600 students (54.5% female) in grades 9-12 aged between 14 and 19 years (M = 16.56).			X	# of days that students were absent from school in the 2014–2015 academic year.	Informati school re
(Barboza, 2015)	Quant cross- sectional	N/A	United States	School	5,589 youth between the ages of 12 and 18 (mean = 14.77, s.d. = 1.99). Males and females comprised 51% and 49% of the sample, respectively. The majority of respondents identified racially as "white" (80%) and the rest as non- white (20%) including African/American or black, Hispanic and/or Asian.	X			At least one incidence of school avoidance or withdrawal during the school year	School avoidanc was meas 2011 Nat Victimiza School C Supplem (SCS)Un Departme Office of Programs Justice S National Victimiza School C Supplem Inter-univ Consortit Political Research 2013-03- https://dc ICPSR33
(Bell, 2019)	Quant cross- sectional	Code of the Street (Anderson, 1999)	Michigan, USA	School	30 Black students (50% male) in Detroit and Southfield Public School Districts and their parents (n=30, 83% female) were recruited for this study for a total of 60 participants. 50% of students were from low SES households and 50% were from		X		Having at least one out of school suspension from a primarily Black high school in southeast Michigan in the 2016-2017 school year	Interview

					behavioural disabilities such as ADHD, ODD, and specific learning disabilities in reading.					
(Berkowitz & Benbenishty , 2012)	Quant cross- sectional	Lifestyle Exposure Theory and Routine Activity Theory (Cohen & Felson, 1979; Hindelang, Gottfredson, & Garofalo, 1978)	Israel	School	The overall sample consists of 259 schools across Israel (136 junior high school and 123 high schools) and 13,262 students (6,670 male adolescents and 6,309 female adolescents; 7,207 Jews and 6,055 Arabs and Bedouins)	X			# of times during the last month a student had missed school because of fear of being hurt by somebody at school or on their way to or from school	Absented item/mea
(Bever Nichols & Booker Lopez, 2012)	Quant cross- sectional	1. Strain Theory (Hagan and Dinovitzer 1999; Sirin 2005) 2. Attachment Theory (Poehlmann 2005; Murray and Murray 2010), 3. Social Control Theory (Hagan and Dinovitzer 1999; Sampson and Laub 1993) 4. Stigmatization (Murray 2007)	United States	Household	The sample for the present study consisted of 3,338 offspring of female NLSY79 participants who took part in the Young Adult survey. The sample is 47% male and the mean age was 26.5 years (SD = 3.36) at the time of the 2008 survey. Minorities were overrepresented in the sample, with about a fifth of the sample self-identified as Hispanic (22.7 %) and a third identified as Black (38.9 %).			X	Dropping out and returning to school after one month at least once	Extended absence (National Survey of Young A Center for Resource (2009). It longituding youth da Ohio Sta
(Camacho &	Quant cross-	N/A	Maryland, United	School	Participants included all public		X		The total number of	Informat

					were 379,903 participants included in this study from Grades 7 through 12. The sample was 51% male and 49% female. White (43.5%) and Black (36.0%) students made up the majority of the sample population. Students with disabilities represented 11.3% of the sample.			during the school year	
(East & Hamill, 2013)	Quant longitudina l	Culturally informed framework based on theories of prosocial development among Mexican American youth (Knight et al., 2011)	California, United States	1. Schools 2. Communit y centers 3. Pediatric health clinics	195 Mexican American youth (M age 14.8 years; 64% girls) and their mothers participated in the study.	X		Having missed at least one full day of school to help out a family member	Absentee item/mea
(Lehman & Meldrum, 2019)	Quant cross- sectional	1. Critical race theory (Bonilla-Silva, 2006; Simson, 2014; Sleeter, 2017; Watts & Erevelles, 2004) 2. Implicit biases and decision-making (Carter et al., 2017;	Florida, United States	School	Data for this study come from the 2018 Florida Youth Substance Abuse Survey (FYSAS). The FYSAS is a cross-sectional survey of public middle school and high school students in the state of Florida conducted annually since 2000. Students from 364		X	Whether each youth reported having been suspended from school at least once in the past 12 months	Dichoton suspension

		Warikoo et al., 2016)			51.3% of the sample identified as female and 17.5% identified as Black, 24.2% Hispanic, 13.3% Other, and 45.0% White.					
(Mowen & Brent, 2016)	Quant longitudina l	1. Life-course theory (Sampson & Laub, 1993)2. Labeling theory (Becker, 1963)	United States	Household	The data used for this project are panel data taken from wave 1 (collected in 1997) through wave 4 (collected in 2000) of the National Longitudinal Survey of Youth (NLSY97)			X	Whether or not a student had received a school suspension in the prior year	Suspensi variableI Labor St National Surveys: Retrieve: https://w s/nlsy97.
(Pengpid & Peltzer, 2017)	Quant cross- sectional	N/A	Indonesia, Malaysia, Myanmar, Philippine, Thailand, and Vietnam	School	28 419 school children aged 13 to 15 years from six ASEAN member states. The sample size in individual countries ranged from 1741 in Vietnam to 160 66 in Malaysia, 51.6% were girls with mean age 14 years (SD = 0.8 years)		X		The number of days a student missed classes or school without permission in the past 30 days	School to Centers of Control (Global S Student of Brunei D 2014 Fac Retrieved http://ww p/gshs/B lam_201 df
(Seelman & Walker, 2018)	Quant cross- sectional	N/A	United Stat es	School	This study involves secondary data analysis of deidentified data from the biennial State Youth Risk Behavior Survey, a repeated cross	X			The number of days a student did not go to school because they felt unsafe at school or on their way to or from school in	Youth R Survey (Centers t Control a Preventic Youth R Surveilla

			CDC and carried out by state health or education departments. The survey design uses complex sampling (clustered and stratified with unequal selection probabilities) that can, when weighted, represent the population of U.S. public high school students (CDC 2017).	verview.I 6 Sept 20
(Stein & Grigg, 2019)	Quant N/A longitudina l	Baltimore, School United States	The final analytic X X X sample consists of 2,801 unique students in the eighth grade in the 2013-2014 school year. The sample is predominately African American (87.5%) followed by White students (10.7%); the remaining 2.2% of students identify as Asian or other race-ehe thnicity. A total of 3.8% of the sample is Latino/a.	A student is considered school re chronically absent when they missed 10 or more days during school year

(Maeda & Hatada, 2019)	Quant longitudina l	N/A	Japan	School	35 students enrolled in grades 7 to 9 (23 males and 12 females; M=13.9 years) enrolled at a public junior high school in Japan	X	X	X	X	1. Failing to attend school without a legitimate excuse for more than 10 full days during a particular 209-day school year2. The number of whole days and half days of school a child missed during the past 4 weeks (+ reaosn for absence)	1. Numbin curren 209-day: 2. Type of attendance measured School Number Checklist Heyne et
Ackah et al. (2021)	Quant cross- sectional	N/A	Ghana	School	Participants: 3592 students in junior and senior high schools over the age of 12 (43.1% between 15 and 17 years)		X			# of full days of missed classes in past 30 days (without permission)	Establish scale/que 2012 Glo Based St Survey (0 version Citation: School-E Health St WHO, G Switzerla http://ww p/ gshs/e
(Ahslund, 2021)	Qualitative	Interpretive Phenomenolo gical Analysis (IPA)	Sweden	School	9 students in 9th grade (50% male, aged 15-16 years) with neuropsychiatric disorders (including social phobias, ADHD, and autism spectrum disorder)				X	Not available (qualitative study) but sample was selected due to both presence of neuropsychiatric disorder and long history of school absences	Interview

Ang et al.,	Quant	N/A	Singapore	School	136 adolescents	X	X	Have missed at	Unique it
2014	longitudina		0 1		aged 13-18 years			least three days	•
	1				(M = 15.21 years,			of school over	
					SD = 0.89) were			three months	
					recruited from 6			without a valid	
					schools in			reason (medical	
					Singapore.			reasons, death	
					Participants were			of a family	
					80.1% male and the			member, or	
					ethnic composition			other	
					of the sample was			extenuating life	
					as follows: 44.9%			circumstances)	
					Chinese, 33.8%				
					Malay, 12.5%				
					Indian, and 8.8%				
					Other.				

Ansong et al. (2019)	Quant longitudina l	1. Asset Theory (Sherraden, 1991; Johnson and Sherraden, 2007; Sheraden et al., 2004) 2. The Asset- Experience Framework (Byner & Paxton, 2001)	Ghana	School	2000 youth in junior high school between 12-18 years				X	The number of days students attended school in the last academic term	Informati school re
Askeland et al. (2015)	Quant cross- sectional	Kearney (2008)'s Definition of School Absenteeism in Youth	Hordaland County, Norway	School	8988 adolescents (51.5 % girls) between 16 and 18 years old in upper secondary education. The majority of the participants were high school students in general studies (53.2%) or vocational training at school (32.4%)	X	X	X		The number of days and school-hours each participant had been absent during the last semester (6 months)	1. Inform school re 2. Unique item/mea

Assa et al. (2015)	Quant cross- sectional	N/A	Petah Tikva, Israel	Children's Hospital	142 adolescents aged 10-17 years and their parents participated in the study. 43 of thes adolescents have Crohn Disease, 31 have ulcerative colitis, 42 have functional abdominal pain, and 30 are age- matched healthy
					controls.

The number of school days missed during the last year due to

X

to gastrointestinal symptoms 1. Uniquitem/mea

2. Inform

Baams et al. (2017)

Quant crosssectional N/A

California, USA

School

Participants in this X study came from the cross-sectional 2011-2013 California Healthy Kids Survey (N = 800,740). The analytic sample WAS composed of 784,280 students aged 10-18 years (50.8% female)

At least one missed school day due to feeling unsafe in past 30 days

1. Inform school re

2. Establ

scale/que (2011-20 Healthy 1 Austin, C Skager, I Clingman and Othe Among (Students. Results o Biennial

Healthy 1 Grades. V San Fran WestEd; Retrieve

http://chl wpcontent/u

ennialRe

Absentee item/mea

Balfanz et al. (2014)	Quant longitudina l	N/A	Florida	School	181897 students in 9th grade (54% White, 24% Black, 19% Hispanic, 2% Asian, <1% Native)	X		At least one out- of-school suspension in 9th grade	Informati school re
Bannink et al., 2014	Quant longitudina l	N/A	Netherland s	School	418 adolescents with an average age of 18.0 years participated in the study. 36.9% of the sample consisted of boys, 31.3% was of Dutch ethnicity and 8.6% was a parent.		X	The number of hours an adolescent was absent from school, regardless of the reason	Informati school re

Barn & Tan, 2012	Mixed methods	General strain theory Agnew, R. (1985). A revised strain theory of delinquency. Social Forces, 64, 151–167. Agnew, R. (1992). Foundation for a general strain theory of crime and delinquency. Criminology, 30, 47–87. Agnew, R. (2001). Building on the foundation of general strain theory: Specifying the types of strain most likely to lead to crime and delinquency. Journal of	England	Social service agencies	A survey of 261 young people was completed. The sample was 43.3% male and 56.7% female; and aged 16–23 years old (M= 18.87, SD= 1.32). Slightly more than half (55.6%) were White; while the rest were of minority ethnic background (44.4%). This includes those of mixed-parentage (15.3%), Black-Caribbean (13.4%) and African/Asian/Chin ese/other ethnic groups (15.7%). A total of 16 males and 22 females were interviewed via a purposve sample of volunteers.
		Research in			

X

Having ever been suspended from school in the past

1. Absentitem/mea 2. Intervi (2005). Why Do Criminals Offend? A General Theory of Crime and Delinquency. Los Angeles: Roxbury

Baskerville, Qualitative Process 2020

theory of wagging

(Baskerville,

2019)

New

Zealand

School

The sample included thirteen adolescents (seven girls and six boys) between 13-18 years of age and who truanted

school

X

Not specified interview about truancy

Qualitati

Beales et al. (2020)	Quant longitudina l	N/A	Australia	Medical clinic	1146 participants (54% female) who reported the presence of spinal pain at age 17, were working at 22 years of age, and provided work presenteeism information at least 3 times age 23.	X	Having missed any work or study due to low-back pain or neck pain in the last month	Nordic Musculos Question Kuorinka Kilbom A Standard question analysis o musculos symptom Ergon. 19
Belay et al. (2020)	Quant longitudina l	N/A	Ethiopia, Africa	School	8839 students in grades 7-12 during the 2015-2016 academic year (Mage: 13.34 years) from 15	X	# school days attended per week	Resear absenteei Informati school re

different schools.

Bennett et	Quant	N/A	Australia	School	102 students	X
al. (2018)	longitudina				(52.9% male) aged	
	1				10-16 years (Mage:	
					12.99 years) across	
					11 schools	

85% or less attendance in the three previous school terms (about 30 weeks) and have no legitimate explanation for their absences from school (e.g. legitimate medical illness). This criteria is in accordance with the "Becca Bill" (SB 5439) in Washington State truancy law and dictates that students meeting this criteria undergo the ASEP intervention.

Informat

school re

Benore et al. (2018)	Quant longitudina 1	N/A	Ohio	Medical clinic	135 children (Mage 15.2, 74% female, 96.3% Caucasian, 2.2% African American) diagnosed with a chronic headache condition and admitted to a 3- week combined inpatient/day hospital intensive interdisciplinary pain rehabilitation treatment (IIPT) program between 2008 and 2014.

Number of	Absent
school days	item/m
missed over	
the past month	

X

school over the

Blomberg et al., 2012	Quant longitudina l	-Cumulative Disadvantage Theory (Sampson & Laub, 1997) -Critical Race Theory (Ladson- Billings & Tate, 1995; Tate, 1997)	Florida	School	4,147 youths released from 115 juvenile justice institutions throughout Florida during fiscal year 2000–2001	X		The number of days youth were in attendance in public school after release from incarceration	Informati school re
Bradshaw et al. (2021)	Quant longitudina l	Theory of Change Process (e.g., Bradshaw et al., 2008; Bradshaw, 2009)	Maryland	School	Students in grades 6-12 across all 410 secondary schools in the state	X	X	Schools meeting or exceeding truancy rates of 8% per quarter were eligible for inclusion. This translates to students who miss 15 days in any semester or 20 or more days of school across a given school year "unlawfully".	school re
Brady et al. (2020)	Quant longitudina l	N/A	England	Hospital	Data from this study was taken from the Avon Longitudinal Study of Parents and Children (ALSPAC), a longitudinal birth cohort study of children born in Avon county from April 1, 1991 to December 31, 1992. From birth to	X		The specific number of days missed from school over the past 12 months due to infections, hospital investigations, other investigations, asthma, eczema/itchy rash, hay	Absentee item/mea

					completed by multiple informants, and extensive clinical assessments. A full description of the study recruitment and sample characteristics can be found in official study reports (Boyo et al., 2012; Fraser et al., 2013). In brief, the ALSPAC enrolled sample (aged from birth to 18 years) had an overall total of 15,247 pregnancies, 75.3% of the determined eligible sample. Mothers reported on their children's absenteeism at 13 years of age.	l d			distributions of scores when days of absence were totaled, there was a strong rationale for creating a binary categorization in which a score of 6 days of more indicated a high degree of health-related school absenteeism.	
Brolin- Laftman et al. (2020)	Quant cross- sectional	N/A	Sweden	School	9482 ninth-grade students (ages 15– 16 years) and 2090 teachers in 150 school units.			X	Student absence on >10 occasions during the current school year (from self- report) was considered to be sickness absence	Establish scale/que kholm St (SSS)Kje Holmin VI.; Löfgre Modin, E Report fo Survey Withe Stock Survey; I 2018:2; I Public H Stockhol Stockhol 2018; Avhttps://wchealth/presearch-public-he (accessed November 1988) and stockholm Stockhol
Burdick-	Quant	N/A	Maryland	School	4200 first-time	X	X		# of days absent	Informat

					Black, 4%				
					Hispanic)				
					- '				
Burton et al., 2014	Quant longitudina l	N/A	Pennsylva nia Ohio	Medical clinic	Data comes from participants recruited in the first two years of a National Institutes of Health (NIH) funded longitudinal study. 108 adolescents (29% males and 71% females) ranging in age from 14 to 19 (M = 16.26 years, SD = 0.92 years). Represented racial groups included 38% White, 59% African American, and 2% other. The ethnicity of the sample was predominately non-	X	X	X	X
					Hispanic (90%). A				
					total of about 26%				
					percent of the				
					sample $(n = 28)$				
					was classified as				

sexual minority.

The number of times in the past month a student had been absent with or without Absentee item/mea

an excuse

Carreon et al., 2018	Quant longitudina l	N/A	U1 es	Inited Stat	Hospital	161 adolescent-parent dyads participated. Adolescents diagnosed with IBD between 11-18 years of age (Mage: 14.5 years, 56.5% male, 90.1% Caucasian, 5% African American, 0.6^ Hispanic, 0.6% Asian, 2.5% Other).	X	Type of absenteeism	1. Function Inventory Pediatric Checklist Pediatric Life Inventory (PedsQL) Greene J functional inventory neglected child hea Pediatr P 1991;16: MS, Mur Burns BJ psychoso in outpati practice. 1986;109 78. Varni Kurtin Psychological Pediability of the Pediatric Pediability of the Pediability of Life Ir Version 4 Core Sca and paties appulation and paties appulation.

population 2001;39:

Cho & Lee, 2021	Quant longitudina l	N/A	Minnesota, United States	School	3977 first-time offenders who were enrolled in Minnesota public schools between ages 10 and 15 in the academic years of 2021 and 2011 (approximately 62% male, 39% White, 40% African American, 14% Native American, and 7% Hispanic youth). This allowed us to follow each youth for at least 3 years based on their first adjudicated offense record. We identified 698 first-time juvenile offenders (17.5%) as having at least one official record for substantiated maltreatment incidents before their initial involvement in the juvenile justice system.				X	Having had at least one out of school suspension before first adjudicated offense	Informat school re
Christani et al., 2015	Quant cross- sectional	N/A	United Stat	School	The study's population consisted of all individuals from the National Adolescent Health public data set. The National Longitudinal Study of Adolescent to Adult Health (Add Health) is a longitudinal study of a nationally representative sample of over	X	X	X	X	The number of days a student was absent from school for reasons detailed in measurement section	

					followed for five waves to date, most recently in 2016-18. A random sample of student responses was drawn from the publically available data set. Students were identified as special education (n = 62), and as not identified as special education (n = 1105).			
Clementi et al., 2017	Quant cross-sectional	N/A	Texas	Medical clinic	122 adolescents aged 12-21 years (Mage: 15.58 years; 73% female, 66% White, 19% Hispanic, 12% African American, 3% Other)	X	Number of school absences in the past month	Absentee item/mea
Collin et al., 2016	Quant cross- sectional	Not specified	England	School	ALSPAC is a population-based study which aims to investigate a wide range of influences on the health and	X	The total number of authorized and unauthorized school absences during one school year	Informat school re

health and development of school absences during one school year

					questionnaires administered at four time-points during the antenatal period then at regular intervals following birth. Parent- and child-reported fatigue data were available for 4962 and 4847 children, respectively. These data allowed us to classify presence/absence of CFS in 5756 children at age 16 years (included in the sample). 52.4% of these children were female.				
Collins et al., 2016	Quant longitudina l	N/A	England	Medical clinic	Adolescents aged 16 years	X		The number of days (in the past year) a child missed school/college because of tiredness/lack of energy (chronic fatigue syndrome)	1. Absentitem/mea 2. Information school re
Costello & Smyth, 2017	Quant longitudina l	Group contingency model (e.g., Skinner et al., 2000)Skinner, C., Cashwell, T., & Skinner, A. (2000). Increasing tootling: The effects of a peermonitored group contingency program on students'	Ireland, Europe	Communit y agency	10 participants took part in the current intervention, all were male and their ages ranged from 13 to 17 years. The participants were recruited through a project in a community-based organization in Ireland.		X	School attendance was defined as the number of days a student attended school during an eleven-week intervention period	Informati school re Baseline attendand the previouseks2. I attendand during th (over ele-

the Schools, 37, 263–270.

Crankshaw et al., 2020

Mixed methods

N/A

Africa

School

All learners who participated in the survey were female (N = 472) and were between the ages of 16–22 years, with an average age of 17.5 years. Ninetyfive percent (n = 444) of the survey participants were black female learners. Sixty-one percent (n = 285)of all the learners had ever repeated a

grade

X

Having ever missed school due to period Absentee item/mea

Daily et al., 2020	Quant cross- sectional	Social Ecological Perspective (Cohen et al., 2009)Cohen J, McCabe L, Michelli NM, Pickeral T. School climate: research, policy, practice, and teacher education. Teach Coll Rec. 2009;111(1):1 80–213.	Virgina, United States	School	6839 middle school (49% female, 82% white) and 7470 high school (51% female, 85.0% white) students from 26 West Virginia schools.		X	X		The number of days a student was absent from school during the last 30 days due to skipping class or illness	Absentee item/mea
Dannow et al., 2020	Qualitative	N/A	Denmark, Europe	1. University clinic 2. Family home	The sample included three families with three boys aged 13–15 years	X		X	X	Being absent from school more than 15% of the time within a three- month period	Interview
Davis et al., 2018	Quant cross- sectional	N/A	Indonesia	School	1159 adolescent girls across 16 schools in grades 7-12 (Mage: 15 years)			X		Having missed one or more days of school as a result of menstruation during a girl's	Absentee item/mea

most recent

Day et al., 2018	Quant cross- sectional	N/A	California	School	-31896 youth in middle and high schools aged 10-18 years (Mage: 14.47 years)Sample was 51.3% female and 1.0% transgender-Sample was racially and ethnically diverse (52.9% Hispanic, 33% White, 30.7% Multiracial, 11.1% Asian, 7.4% Black)	X	X		X	Having skipped school or cut classes at least once in the past 12 months	Absentee item/mea
de Groot et al., 2017	Quant cross- sectional	Not specified	Denmark, Europe	School	328 Dutch adolescents in grades 7 and 9 of senior general secondary education or university preparatory education was willing to participate.			X		The total number of school days that the participants were absent from school due to illness throughout the entire academic year	Informati school re

Del Toro & Wang, 2022	Quant cross- sectional	N/A	United Stat es	School	818 African American adolescents aged 11-17 years (Mage: 13.56 years, 48.7% male) enrolled in 12 public middle and high schools		X	Having ever been suspended for a minor infraction during one school year	Informati school re
Devenney & O'Toole, 2021	Qualitative	Not specified	Ireland, Europe	School	Participants were 17 professionals (8 male and 9 female) working in or supporting second-level schools in Ireland. These included principals, teachers, other school based staff and professionals from outside agencies (e.g.	X		Topic of interview was school refusal	Qualitati

officer).

Diaz- Herrero et al., 2018	Quant cross-sectional	1. Bar-On Model of Emotional-Social Intelligence (Bar-On 2004, 2006) 2. Emotional Intelligence Ability Model (Mayer & Salovey, 1997) Bar-On, R. (2004). The bar-on emotional quotient inventory (EQ-i): Rationale, description and summary of psychometric properties. In G. Geher (Ed.), Measuring emotional intelligence: Common ground and controversy (pp. 111–142). Hauppauge: Nova Science Publishers. Bar-On, R. (2006). The Bar-On model of emotional-social intelligence. Psicothema, 18, supl., 13–25. Mayer, J. D., & Salovey, P. (1997). What is a social intelligence.	Chile	School	2362 Chilean adolescents (56.8% female) aged 13-17 years (Mage: 15.25 years) across 15 different high schools	X

Instrument School R measures school Assessm refusal Revised Chilean

> Kearney, Identifying of school behavior the School Assessm Journal of Psychopa Behavior Assessm 235–245 https://doi.org/10.207

> > Gonzálve Kearney, San Martí M., Inglé García-F M. (2017 Refusal A Scale-Re version: invariance means di

> > across ge Journal of Psychoed

> > Assessment https://do

Emotional development and emotional intelligence: Educational implications (pp. 4–30). Nueva York: Basic Books.

Dong & Quant Krohn, 2019 longitudina 1

Labeling theory (Bernburg, 2009; Krohn & Lopes, 2015; Lemert

2015; Lemert, 1951: Paternoster & Iovanni, 1989;

Schur, 1971)

New York, School United States

current study come from the Rochester Youth Development Study (RYDS). The RYDS has collected 14 waves of data across three study phases, covering the subjects from their early teenage years (about age 14) to young established adulthood (age 31). Phase 1 covered the adolescent years of the subjects from about 14 to 18 years of age. In Phase 1, 960 respondents and their primary caretakers (most often biological mothers) were interviewed nine and eight times respectively at 6-

The data for the

X

Having ever been suspended or expelled during the course of the longitudinal study Absentee

Duncan et al., 2016	Quant longitudina l	N/A	United Stat es	School	We analysed the data obtained from three cycles of the National Health and Nutrition Examination Surveys (NHANES), 2003—2004, 2005—2006, and 2007—2008. The final analytic sample consisted of 3119 children (50% male) aged 12-19 years (68.04% White, 15.79% Black, 16.17% Mexican/Hispanic).		X		Adolescents who missed nine days of school or more were considere as 'having excessive scho absenteeism (ESA)'	ed SurveyN for Heal
Dunne et al., 2013	Quant cross- sectional	N/A	Ghana	School	Total sample size for the survey was 7137 adolescents aged 15-20 years comprising 4018 boys with a weighted percentage of 56.3 and 3119 girls with a weighted percentage of 43.7.	X			The number of days students missed classes or school without permission over the past 30 days	2008 Gh School-b Health S
Dymnicki et al., 2021	Quant longitudina l	Multitiered System of Support (MTSS) framework	Colorado, United States	School	The study included two cohorts (46 schools in total) in Colorado that met implementation readiness criteria (based on feasibility visits) and agreed to participate in the		X	X	Having ever missed a school day (unexcuse or having ever received an in- school or out- of-school suspension	d)

					36 schools. Staff and 62,590 students in these 46 schools (21,109 sixth-grade students, 20,891 seventh-grade students, and 20,590 eighth-grade students), located within nine districts on Colorado's Front Range, participated in this study. Forty-four percent of students were classified as White, 41.7% as Latino/Hispanic, 6.9% as Black, 3.7% as mixed, and 2.8% as Asian, with the remainder in other categories (including Pacific Islander and Native			
Echeverria et al., 2014	Quant cross- sectional	Not specified	United Stat	Household	American). The mean age of participating youth was 13.5 years, which was similar across all categories of poverty. Slightly more than half of study participants were male and 60.5% of youth were non-Hispanic white, 17.1% were Hispanic, 15.2% were non-Hispanic black, and 7.2% were other, non-Hispanic.	X	The number of school days missed in one academic year. 11 or more school days missed per year represented a "high" number of school absences according to the National Center for Health StatisticsNation al Center for Health Statistics. 2003 & 2007 National Surveys of Children's	.

Health Merged

and Adolescent Health, Child and Adolescent Health Measurement Initiative. Hyattsville, MD: U.S. Department of Health and Human Services. Available at: www.childhealt hdata.org. Data received July 2012.

Edmunds et Quant al., 2013

Early College longitudina High School Model (American Institutes of Research & SRI International, 2009)

North Carolina, United States

School

For engagementrelated outcomes available through administrative data collected by NCDPI, the sample included a total of 1,607 Grade 9 students in 18 cohorts in 12 schools. The outcomes included in this sample come from students who were ninthgraders in 2005-2006, 2006- 2007, 2007-2008, and 2008-2009. The sample for the survey analysis includes 575 ninthgraders associated with 10 early colleges. There were a total of 349 students in the treatment group (assigned to an early college) and 195 control group students who were

Χ

Having been suspended outof-school at least once in a given year.

Informat school re

1. Schoo measure

2. Susper

the comprehensive
high schools in the
district.

Erdmans, 2012	Qualitative	Not specified	Connecticu t, United States	Family home	62 Black, White, and Latina pregnant and mothering students who were attending public high schools in Connecticut when they became pregnant.	X	X	X	X	Mothers who were enrolled in high school when they were first pregnant and subsequently dropped out were included in	Qualitati

the study

Eyllon et al., 2022	Quant longitudina l	1. Theory of Collateral Consequences 2. Social Stress Process Framework (Brown et al., 2007; Thoits, 2010; Turner & Avison, 2003)	United States	School	The Add Health study is a complex stratified cluster design-based survey that represents 132 schools located in 80 distinct U.S. communities. The first Wave includes 17,670 students in grades seven through twelve who had valid parent surveys. Wave II was collected in 1996 from 14,738 students who were in grades seven through eleven in Wave I. Data for this study come from Waves I and II in-home surveys, the Wave I parent survey, and the school administrator survey. Our analytic sample is based on 13,568 Wave I respondents who were successfully reinterviewed at Wave II and had valid survey weights. We restricted our sample to respondents with no history of suspension or expulsion who had valid data for both of our outcomes yielding a sample of 8,878. The sample is 46% male and the mean

Whether a school administers inschool or outof-school suspensions in response to student infractions

X

School d from Add Harris, K J. R. (20) longitudi

adolesce

health (a 1994-200 Use]. An Carolina

Center, U North Ca Hill [dist university for Politi Research 08-06. Black, 6% Asian, and 3% Other.

Felver et al., 2019	Quant longitudina l	N/A	New York, United States	School	27 students in grades 9-12 participated in this study (67% female, Mage: 16.39 years). The ethnic composition of the sample was 48% Black, 30% White, 15% Asian/Pacific Islander, 4% Hispanic/Latino, 4% American Indian.		X	The number of unexcused student absences in one quarterly marking period	Informati school re
Fields & Wotipka, 2020	Quant cross- sectional	Public Opinion and Isomorphism Perspectives (Everly & Schwarz, 2014)	United Stat es	School	957,244 survey respondents in grades 9-12 (51% female). Racial/ethnic composition information is	X		Whether or not the student has been absent due to feeling unsafe in the past 30 days	Absentee from The Disease (Youth Ri Surveilla (YRBSS)

available for 938,981

Centers f

					American Indian, 1.4% Pacific Islander, 3.8% Multiracial)				from www.cdc
Finch et al., 2018	Quant longitudina 1	Recovery High Schools (Moberg & Finch, 2007)	United Stat es	Treatment facility	194 adolescents enrolled in Minnesota, Wisconsin, or Texas schools (Mage: 16 years, 86% White, 49% female) after receipt of formal inpatient or outpatient substance use disorder (SUD) treatment. Adolescents were recruited from 10 SUD treatment facilities.	X	X	Number of full days skipped school in past 3 months	Absentee item/mea
Finning et al., 2017	Qualitative	N/A	England	School	16 educational practitioners across	X	X	Type of absenteeism	Focus gro

worked with students aged 11-18 in secondary schools.

Not specified

Focus gr

Finning et al., 2020	Qualitative	Bronfenbrenn er's Ecological TheoryBronfe nbrenner, U., and P. A. Morris. 2006. "The Bioecological Model of Human Development. " In Handbook of Child Psychology: Theoretical Models of Human Development, 6thed. Vol. 1. 793–828. Hoboken, NJ, US: John Wiley & Sons.	United Kingdom	School	16 secondary school educational practitioners from three schools in the South West of the UK. Practitioners could be working in any teaching or non-teaching role, but were required to have experience of working with pupils with attendance problems.	X	X	X

Flannery et al., 2012	Quant cross-sectional	An interdisciplina ry model of school absenteeism Kearney, C. A. (2008). An interdisciplina ry model of school absenteeism in youth to inform professional practice and public policy. Educational Psychology Review, 20, 257–282. doi:10.1007/s 10648-008-9078-3	United States	School	Participants in this study were 8,457 ninth-grade students who had at least one or more office disciplinary referrals (ODRs) for missing one or more classes without permission during the first semester of their freshman year. Students were nested within 193 public high schools in the United States. 56.3% were male. 1.1% were Native American, <1.0% were Asian, 8.8% were Latino, 21.5% were African American, 26.4% were Caucasian, and 39.5% identified as an "other" racial category.	X	X		Truancy: Two office discipline referral codes were combined: a) skip (miss class without permission) and b) truant (unexcused absence for half day or more) In-school-suspension: Consequence for referral results in a period of time spent away from scheduled activities/classes during the school day Out-of-school suspension: Consequence for referral results in a 1 to 3-day-period when student is not allowed on campus Expulsion: Consequence for referral results in a 1 to 3-day-period when student is not allowed on campus Expulsion: Consequence for referral results in student being dismissed from school for one or more days	Informati school re 1. Truand 2. In-scho 3. Out-of suspensid 4. Expuls
Furrer et al., 2012	Quant longitudina l	N/A	United Stat es	School	Selection criteria for SUN students included (a) enrollment in 9th to 12th grade as of October 1, 2008, (b) attending one of			X	The total number of days absent in one academic year	Informati school re

services on at least 30 days during the school year1 (M ¼ 48 days, SD ¼ 20.3, ranged from 30 to 139 days). The final sample included 441 SUN participants across four SUN sites

Gallé- Tessonnea & Gana, 2018	Quant u longitudina l (scale developme nt)	Berg's definition of school refusalBerg, I. 1992. "Absence from School and Mental Health." The British Journal of Psychiatry: the Journal of Mental Science 161: 154–166. doi:10.1192/b jp.161.2.154. Berg, I. 1997. "School Refusal and Truancy." Archives of Disease in Childhood 76 (2): 90–91. doi:10.1136/a dc.76.2.90.	France, Europe	1. School2. Mental health centers	Study 2 (scale validation): A community sample of 624 adolescents (58% girls) aged 10–16 years old (Mage = 12.4 years) were recruited from six French public middle schools for this study. Another 31 adolescents (15 boys and 16 girls) aged 10–16 years old (Mage = 13.3 years) displaying school refusal were recruited from five mental health centers according to Berg's criteria of school refusal.	X	X	School refusal Berg, (1992, 1997) has five clinical criteria:(1) Reluctance, severe difficulty in attending school, or frequent refusal to go to school(2) Seeking the comfort and security of home, preferring to remain close to parental figures, especially during school hours; (3) Displaying evidence of emotional upset and distress when the adolescent is faced with the prospect of having to go to school, although this may take the form of unexplained physical symptom (including dizziness, headaches, nausea, back pain);(4) Absence of serious antisocial tendencies, apart from possible aggressiveness when attempts	1. The SO Evaluatio (SCREEI Informati school re Tessonne Gana, Ka Developr Validatio School R Evaluatio Adolesce Pediatric 44(2), 15

are made to force school

reasonable efforts to ensure the presence of the child in school since the problem began.Absenteei sm1. Absenteeism at school was defined as the number of times in the past 3 weeks a student (1) went to the school infirmary, (2) went to the school office, (3) called parents to leave school and return home, and (4) delay.2. Absenteeism from school was defined as the total number of half-days a student was absent within the past 3 weeks.

Qualitative	Berg's	France,
	definition of	Europe
	school	
	refusalBerg, I.	
	1992.	
	"Absence	
	from School	
	and Mental	
	Health." The	
	British	
	Journal of	
	Psychiatry:	
	the Journal of	
	Mental	
	Science 161:	
	154–166.	
	doi:10.1192/b	
	jp.161.2.154.	
	Berg, I. 1997.	
	"School	
	Refusal and	
	Truancy."	
	Archives of	
	Disease in	
	Childhood 76	
	(2): 90–91.	
	doi:10.1136/a	
	dc.76.2.90.	

Gallé-

2020

Tessonneau

& Heyne,

There were 42 participants dividedacross four groups: (a) 15 middle school students not displaying SR (8 girls and 7 boys) aged 11-16 years (M = 13.7, SD =1.3); (b) 6 adolescents displaying SR (2 girls and 4 boys) aged 11-15 years (M = 13.6, SD =1.7); (c) 17 middle school professionals (e.g., teacher, school director, school nurse; 12 women and 5 men) aged 32-60 years (M =

45.4, SD = 7.8);

and (d) 4 care professionals

working with

displaying SR (i.e., psychiatrists and

psychologists, all

women) aged 29-

42 years (M = 34.5,

adolescents

SD = 5.6).

X

1.

Schools2.

Mental

health

centers

Berg, (1992, 1997) presented five clinical criteria of school refusal:(1) Reluctance, severe difficulty in attending school, or frequent refusal to go to school(2) Seeking the comfort and security of home, preferring to remain close to parental figures, especially during school hours; (3) Displaying evidence of emotional upset and distress when the adolescent is faced with the prospect of having to go to school, although this may take the form of unexplained physical symptom (including dizziness, headaches, nausea, back pain);(4) Absence of serious antisocial tendencies, apart from possible aggressiveness when attempts are made to

Qualitati

have made reasonable efforts to ensure the presence of the child in school since the problem began.

Gase et al., 2014

N/A Quant crosssectional

California, School United States

We analyzed data from the Reducing health Inequities through Social and Educational change (RISE) study to examine key correlates of chronic truancy in a targeted student population. The sample consisted of 909 students in grades 9-12 (44% male, Mage: 16.4 years, 84.3% Hispanic, 12.3% Black, 3.4% Other)

X

The number of times a student cut or skipped class in a typical month

Absentee item/mea

Gase et al., 2016	Qualitative	N/A	Los Angeles,	School	39 youth aged 13- 19 years (51%	X	Having reported Qual skipping class
			United		female) with a		or ditching
			States		history of truancy		school at least
					in middle or high		once per month
					schools.		currently or in
					Participants were		the past year
					79%		
					Hispanic/Latino		
					and 29% African		
					American/Black.		

Geller & Mark, 2022

Quant crosssectional

N/A

United Stat Hospital es

Data were drawn from the Fragile Families and Child Wellbeing Study (FFCWS), a population-based survey of urban families, which has followed a cohort of nearly 5000 children born in 20 large cities, along with their families, over the first 15 years of the "focal children's" lives. Mothers were recruited into the study between 1998 and 2000, at the hospital following the

X X The number of days a student missed school either due to illness or as a result of skipping school

days mis illnessb) skipping (total)2. chronic a (binary v

1. Numb

as possible after the birth. The FFCWS parents were contacted for follow-up interviews five additional times: both parents were contacted around the focal children's first, third, fifth, and ninth birthdays (hereafter the Y1, Y3, Y5, and Y9 surveys), and a single primary caregiver, most often the child's mother, was contacted around the focal children's (now "focal youths") fifteenth birthdays (the Y15 survey). In both the Y9 and Y15 waves, the youths were also interviewed, providing their perceptions of experiences within their families, schools, and neighborhood. The current analytic sample consisted of 2614 participants and the sample was 50% Black, 25% Hispanic, 17% White, 6% Multiracial, 2% Other race.

Geven et al., 2017

Quant longitudina

Normative Social Influence Theory

(Deutsch &

Gerard, 1955)

Sweden

School

adolescents are drawn from the CILS4EU data

Data on Swedish

(Kalter et al. 2013). All participants

attended 8th and

9th grade (wave 2)

X

Skipping school one at least one occasion

Absentee item/mea

> Kalter, F Hewston Jonsson, Kalmijn, & van Ti

					school. In Sweden, 5025 students in 251 classes in 129 schools participated in the first wave in the school year of 2010–2011. 4110 students participated in both waves, and 5448 in one of the waves. We estimate hybrid models on 5448 students (14–15 years, 49% boys), and stochastic actor-based models (SIENA) on a subsample of these data (2480 students in 98 classes; 49% boys)			(Cils4eu) Archive, ZA5353 Version,
Goddard et al., 2021	Quant longitudina l	Not specified	Connecticu t, United States	School	Three schools with school-based health center programs (N = 1566 students) were chosen to participate in this study. 221 (27.0%) of the registered users had an asthma diagnosis at the high-school, 133 (23.0%) of the registered users (n = 561) had an asthma diagnosis at one of the middle-schools, and 26 (13.0%) of the registered users (n = 197) had an asthma diagnosis at the other middle school.	X	Missing class time due to a medical visit for asthma	Seat time

Gonzalvez Chile The sample Quant N/A School et al., 2018 crosscomprised 2,678 sectional Chilean students (factorial (43.7% boys) aged invariance) 13 to 17 years recruited from seven different communes

X

School refusal was measured

School R Assessm Revised

> Kearney, Identifyin of school behavior the School

Assessm

had recently

attending school

serving
predominantly
students with
disabilities
throughout the
district.

Grant et al., 2013 Mixed N/A methods

Malawi, Africa

School

835 female students

X X X

The number of days a female student missed school the last time they had their period

Absentee item/mea

Malawi S Adolesce (MSAS)

Malawi I

Educatio Skills an Reproduc Educatio 2. Domas Institute Press.

Green et al., 2012

Quant longitudina 1. The selfsystem model of motivational development (Skinner et al., 2008, 2009)

Australia

School

The longitudinal sample comprises 1866 high school students from six Australian high schools completing the instrumentation at T1 (3rd term of the school year) and T2 (one-year later). Around 39% of the participants were female. The mean age of respondents was 13.86 years (SD 1/4 1.28) at T1 and 14.79 years (SD 1/4 1.28) at T2.

Number of full day absences in past term

Absentee item/mea

Green et al., 2015	Quant cross- sectional	System of care approach (Stroul & Friedman, 1986)	United Stat	Communit y agency	We used data from the SAMHSA's Children's Mental Health Initiative Systems of Care (SOC). The final sample included 4365 adolescents and their parents. Adolescents were on average 14.4 years old (range: 12-18 years) and a majority were male (60.2%). Adolescents reported that they were non-Latino White (40.3%), non-Latino Black (30.7%), Latino (17.7%), or Other race/ethnicity
					race/ethnicity (11.3%).

Having been absent from school 1 day or more per week

Absentee

item/mea

X

X

Green, 2022	Quant cross- sectional	1. Critical Race Theory 2. Critical Race Feminism Delgado, R., & Stefancic, J. (2001). Critical race theory: An introduction (1st ed.). New York University Press. Collins, PH. (2000). Black feminist thought: Knowledge, consciousness , and the politics of empowerment (2nd ed.). Routledge.	United Stat es	School	This study relies on two waves of data collected from two national longitudinal program evaluations— Teens, Crime and the Community/Comm unity Works (TCC/CW) and the second Gang Resistance Education and Training (G.R.E.A.T.) program. The final analytic sample consisted of 3,448 students from 45 schools (31 from G.R.E.A.T. and 14 from TCC/CW).		X	Having received at least one inschool or out-of-school suspension in the past 6 months
Grinshyteyn & Yang, 2017	Quant cross- sectional	N/A	United Stat es	School	This secondary data analysis was performed using the 2013 Youth Risk Behavior Survey (YRBS). The YRBS was started in 1990 as a survey to monitor health risk behaviors among youth in the United States. The analytic sample included 13,554 high school students in 9th to	X		The number of days a student missed school because they felt they'd be unsafe at school or on their commute to/from school in the past 30 days

12th grade

Absentee

item/mea

Youth Ri Survey (

Centers f

Prevention Behavior

System (YRBS D Guide. 20

at: http://healthyyo YRBS 2 User G Accessed 10, 2014

Grooms & Bohorquez, 2021	Qualitative	Critical sensemaking approach Helms Mills, J., Thurlow, A., & Mills, A. J. (2010). Making sense of sensemaking: The critical sensemaking approach. Qualitative Research in Organizations and Management, 5(2), 182–195.	Iowa, United States	School	Two school leaders (Matt, the principal, and Eloise, the school counselor) and one district leader (Luke, the superintendent), who participated in semi-structured interviews	X	X	Not specified	Qualitativ
Guadamuz et al., 2019	Quant cross- sectional	N/A	Thailand	School	2070 students grades 7–12 (aged 13–20 years) from 15 secondary schools (n = 2,070) around Thailand.	X		Having ever skipped school without any authorized reasons	Absentee item/mea

teachers, 100 students, 10 parents and 5 opinion leaders	Gyimah & Yelkpieri, 2017	Mixed- methods	N/A	Ghana	School	students, 10 parents and 5 opinion	X		Truancy	1. Ser questi struct
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Hagborg et Quant N/A Sweden School Data from 667 high X al., 2018 longitudina 1 school girls and 649 boys aged 12-18 (52.1% female, mean age 14.3) was

mean age 14.3) was used from the longitudinal multidisciplinary research program LoRDIA (Longitudinal Research on

Development In

Adolescence).

absenteeism was defined as 5–15% of unexcused absence during one school semester and excessive absenteeism was defined as either 20–50% 50% or more unexcused absence during one school semester

Moderate

Absentee

item/mea

Haight et al., 2016

Qualitative Not specified

United Stat 1. School2. Home es

This article is part of a larger research program examining out-of-school suspensions of 31 black middle- and high-school-age students from the perspectives of the youths, 28 of their caregivers, and 19 educators involved in the disciplinary incident. For this study, participants were four black students, their caregivers (two mothers, one grandmother, and one father), and six educators involved

X

One incident of Qualitati an out-of-school

suspension

Hamlin, N/A Quant longitudina 2020

New York School 61,684 students (50% male) in grades 6-12 (39% Hispanic, 30% Black, 17% Asian, 14% White)

variable indicating whether a student had been absent 18 or more times during the school year.

This threshold for chronic

absenteeism coheres with the U.S.

Department of

Education's (2019) classification of

chronic absence.

X

Chronic absence was a dichotomous

1. Total a (count va 2. Chron

Informat

school re

(dichotor

Hancock et al., 2018	Quant longitudina l	School absenteeism and school refusal behavior in youth (Kearney, 2008)	Australia	School	The study commenced in 2004 with two cohorts of children and families who were followed up with every two years, with six waves of data now. We use data from the K-cohort at Wave 6, which	X	X	X
					includes 3537 children aged 14– 15 years.			

Number of days of school missed during the previous

X

Number of

school

times in the last

six months that an adolescent was absent from Absentee

item/mea

Absentee item/mea year

This study involved secondary analyses of data from a randomized control trial of the Juvenile Justice Anger Management

60 female youth who had been placed in one of three residential, juvenile justice facilities, two in New Jersey and one in Pennsylvania. Participants ranged in age from 14 to 19 years (Mage: 16.95 years) and self-identified as Black or African American (59.02%), bi- or multiracial (27.86%), White (9.84%),and Asian (3.33%); 31.15% identified as Hispanic and 68.85% identified as non-Hispanic.

Havik et al., Qualitative N/A 2014c

Norway

Counseling services
2. Special schools
3. Communit

1.

organizatio ns A convenience Sample of 17 parents with children displaying or having displayed school refusal were invited to participate. Their children, eight girls and nine boys, were aged from 10 to 18 (mean age 14.7 years) at the

time of the interview.

Interview about Qualitatisschool refusal

Havik et al., 2015a	Quant cross- sectional	Conceptual framework for school non-attendance from Kearney (2008)Kearne y, C.A. (2008a). Helping school refusing children and their parents: A guide for school-based professionals. New York: Oxford University Press	Norway	School	Students were recruited from 45 schools in seven municipalities in Norway, including a relatively large Norwegian city as well as several towns and rural districts. A total of 5,465 students from the 6th to 10th grades participated (ages 11–15; 51% male and 49% female).	X	X

The number of full days of school nonattendance in the last three months

questionn Bru, E., & K. (2015 reasons f attendanc Scandina of educat 59(3), 31

School n

'			

Havik et al., 2015b	Quant cross- sectional	Conceptual framework for school non-attendance from Kearney (2008)Kearne y, C.A. (2008a). Helping school refusing children and their parents: A guide for school-based professionals. New York: Oxford University Press	Norway	School	A total of 5,465 students aged 11-15 years from the sixth to the tenth grades participated (51% males and 49% females). Students were from 45 different schools. The students who reported being absent for any full school days in the last three months were included in further analyses about the reasons for school non-attendance, resulting in a subsample of 3,629 students (49.6% males and 50.4% females).	X	X	X
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The number of full days of school nonattendance in the last three months

questionin Bru, E., a K. (2015 reasons f attendanc Scandina of educat 59(3), 31

School n

Hayes, 2012 Quant 1. Relations crossof parenting sectional style and parenting involvement (Paulson, 1994)2. Parental involvement and adolescents' educational expecations

(Trusty, 1999)

United Stat School es

parents/guardians of urban African American high school adolescents X X

1. Number of school days missed in one academic year2. Number of discipline

referrals

Absentee item/mea Missed2. Referrals

Heerde et al., 2020	Quant longitudina l	1. Life-course theory (Elder et al., 2003; Hser et al., 2007) 2. The social development model (SDM; Catalano & Hawkins, 1996).	1. Washingto n, USA 2. Victoria, Australia	School	1945 young adults (51% female; n = 984 in Victoria), ranging between 12 and 16 years of age (mean = 13.01 years). Participants were initially recruited as adolescents in state-representative secondary school samples at age 12 years and have been followed to age 25 years.	X
Heerde et al., 2020	Quant cross- sectional	N/A	United Stat es	School	The current study analyzes longitudinal data from the International Youth Development Study (IYDS). Data comes from the grade 7 cohort extracted from early-mid adolescence (grade 7 [2002], grade 8 [2003], and grade 9 [2004]) and young adulthood (2014), as this was the cohort chosen for long-term follow- up in the USA, and therefore has the most complete data	X

in both states at

Number of

year that a participant was suspended from

school

times in past

The number of

year that a

school

student was

times in the past

suspended from

Absentee

item/mea

Suspensi

from the

Youth D

Study (I

McMorri Hemphil Toumbou Catalano Patton, C Prevalen substance delinquer adolescer Victoria, Washing United S Educatio 34, 634 https://dc 2/109019

Victoria). In 2002,
989 (51%)
participants
identified as
female. The sample
age ranged between
12 and 16 years
(mean (M) = 14.01)
years). The
majority of the
Victorian sample
identified as
Australian (91%)
and the
Washington State
sample had a
majority
identifying as white
(65%). In 2014, the
sample ranged in
age between 23 and
27 years (M [SD] =
25.14[.84]) and
female participants
formed 53% (n =
966) of the sample.

To explore the

between school

transitioned into adulthood. The initial sample

relationship

Hemez et al., 2019	Quant longitudina l	Life-course perspective (Elder, 1985; Farrington, 2003; Laub & Sampson, 1993; Sampson & Laub, 2003)

suspension and ington, 3; Laub & incarceration, we pson, use the first 15 rounds of the National pson & 5, 2003) Longitudinal Survey of Youth 1997 (NLSY97). Sponsored by the Bureau of Labor Statistics, the NLSY97 collects information on a variety of topics including the educational and employment outcomes of adolescents as they

United Stat School

es

X

Having ever been suspended from school

1. Suspen (binary)2 number of which rereceived suspension National Survey of (Moore of

2000)http

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		were between the ages of 12 and 16 in 1997 (born between 1980 and 1984), as well as an oversample of 2,236 Black and Hispanic adolescents, resulting in an initial sample size of 8,984 respondents.			
		Yearly interviews were conducted for the first 15 rounds (1997–2011), with the survey switching to a biennial design after 2011. Although the NLSY97 suffers from some attrition, more than 80% of the original sample is retained during the first 15 rounds of the survey.			
Hemphill et Quant N/A al., 2014 longitudina 1	1. United School States 2. Australia	Participants were seventh grade students enrolled in the International Youth Development Study (IYDS) (N = 1945), followed up in grades 8 (N = 1832) and 9 (N = 1796). The IYDS used standardized methods in Washington State, United States and Victoria, Australia. The sample was composed almost entirely of 12- and 13- year-olds in both states. Boys	X	X	1. The number of times in the past 12 months a student was suspended from school 2. The number of whole days a student missed because they skipped or 'cut/wagged' during the last 4 weeks

Hill & Mrug, 2015	Quant cross-sectional	N/A	United Stat es	School	This study utilized data collected with the PRIDE Survey in a single metropolitan area in the Southeastern U.S. The sample includes 23,615 middle school and high school students attending grades 6–12 (approximately 80% participation rate). The mean age of the students was 14 years old. The sample comprised 47% males and 53% females. Racial/ethnic composition of the sample was 53% African-American, 41% Caucasian, 2% mixed, 2% Hispanic, and 2% other. School-level data were obtained from 42 middle schools (grades 6–8, ages 12–14) and 24 high schools (grades 9–12, ages 15–18).		X	The number of school days missed in one academic year	Informat school re
Holt et al., 2013	Quant cross- sectional	N/A	Singapore	School	3096 youth participated in the study (2,303 males (55.5%) and 1,844 females (44.5%)) across 2 primary and 8 secondary schools in Singapore in 2006. These schools were located across the country, and incorporated students from all social geopoperic	X		Having skipped school due to bullying on at least one occasion	Absentee item/mea

social economic

Holtes et al., 2015	Quant cross- sectional	N/A	Netherland s	School	1167 secondary school students of Dutch ethnicity (53.7% male, Mage: 15.9 years).	X
Houck et al., 2012	Quant cross- sectional	N/A	New England, United States	School	Between 2007 and 2009, 138 7th grade adolescents from 3 New England public middle schools participated in an HIV prevention intervention study for at risk youth. The current study used data from baseline adolescent assessments completed on audio computer-assisted self interview.The total sample was 51% male; participants' average age was 13.14 years. The racial composition of the sample was	X

Number of hours that an adolescent spent truanting in the past 4 weeks

Students were

havin a history of truancy if they had ever missed school

without a valid

excuse

described as

Youth In

Absentee item/mea

Gadow k Adolesce to the Ch Inventori Stony Br Checkma response); 38% identified as Latino

Hughes et al., 2017	Quant cross- sectional	1. Racial Threat (Blalock, 1967) 2. Intergroup Contact (Allport, 1954)	Florida, United States	School	Across 66 of the 67 school districts in the state of Florida, 335 public middle schools and 313 public high schools are included in this sample	X	The number of suspensions for Black, Hispanic, and White students in one academic year	Informati school re
Hughes, 2022	Quant cross- sectional	1. Foucault's (1977) carceral continuum perspective2. Place-based stratification theory (Shaw & McKay, 1942)Foucault, M. (1977). Discipline and punish: The Birth of the prison. Vintage.Shaw, C. R., & McKay, H. (1942). Juvenile delinquency and urban areas.	Florida, United States	School	The data for this study combine 2011–2013 school and school district data from the Florida Department of Education (FDOE) with incarceration data from the Florida Department of Corrections (FDOC), county-level demographic data from the U.S Census anf crime data from the Uniform Crime Report. Across 66 Florida counties (or school districts), 287 public middle schools and 272	X	The number of out-of-school suspensions a student received in one academic year	Informati school re suspension suspension Hispanic rated. When suspension

Hysing et al., 2015	Quant cross- sectional	N/A	Norway	School	8346 adolescents aged 16-19 years (54% female)		X		Substantial school absence understood as 10 or more full-day absences OR more than 19 hours of absence in past semester (6 months). Used the 90th percentile as a cutoff	Informati school re
Hysing et al., 2017	Quant cross- sectional	N/A	Norway	School	10,243 Norwegian adolescents aged 16–19			X	Number of hours and days of non- attendance at school over the past semester (6 months)	Informati school re
Hysing et al., 2019	Quant cross- sectional	N/A	Norway	School	10,220 adolescents aged 16-19 years (54% female)			X	Both days and school hours of absence for the last semester (6 months)	Informati school re
Ingul et al., 2012	Quant cross- sectional	Kearney's (2008) definition of problematic absence	Norway	School	865 adolescents (52.3% female) ranging in age from 16 to 21, with a mean age of 17.18 years and standard deviation of 1.15 years.	X		X	Number of days absent from school in previous semester	Absentee item/mea

•

2018	longitudina 1		Jupun	School	school students in Japan	
Inthaphatha et al., 2021	Quant cross- sectional	N/A	Laos, Asia	School	1,366 girls aged 13-19 years across six secondary schools (Mage: 15.8 years)	X

School

17,378 junior high

X

Inoue et al.,

Quant

N/A

Japan

In the Japanese education system, a student is considered to have withdrawn from school when the total number of absent days reaches 30 days during an academic year. Thus, we used this definition for the outcome variable of school absenteeism. This defines only the event of having withdrawn from school and includes many reasons for being absent.

Having missed at least one day of school due to menstrual anxiety, menstrual leak, and/or dysmenorrhea in the last six months.

Absentee item/mea

Informat

school re

Iverson et al., 2016	Quant cross- sectional	N/A	Washingto n	School	937 adolescents (53.3% male, 44.7% Hispanic/Latino, 37.6% White) between the ages of 12 and 19 years attending public schools.		X		X	Data were provided by Washington State Center for Court Research (George et al., 2015), representing children for whom a court petition was filed with the state due to excessive absenteeism, in accordance with Washington state statutory law (BECCA Bill, 1995, E2SSB 5439).
Johannessen et al., 2020	Qualitative	N/A	Norway	School	In total, 17 school nurses and 25 teachers gave their informed consent and 11 focus group interviews were conducted (five groups of teachers, five groups of school nurses and one group consisting of three teachers and one school nurse from a special school for immigrants). All participants were ethnic Norwegians, six of the teachers were males and 19 were females. All of the school nurses were females. The ages of the teachers ranged from 29 to 62 years and they had 3-40 years of experience in	X		X		Not specified but interview about school withdrawal

Absented item/mea

Focus gr

Karlberg et	Quant	N/A	Sweden	School	2770 students		X	Absenteeism	Informat
Kansiime et al., 2020	Mixed methods	Social Cognitive Theory (Bandura, 2004)	Uganda	School	369 students (188 girls; 81.0%; and 181 boys; 83.0%) participated in the endline survey. At baseline, the mean age was 15.4 years (SD 1.31; range 12–20) for girls and 16.2 (SD=1.5; range 13–21) for boys. The majority (n=361; 80.2%) were Christian and 198 (44.0%) were of Ganda ethnicity.	X		Number of days of missed school due to menstruation	Absented item/mea
					2-34 years of experience as a school nurse.				

Kathryn et al., 2014	Quant longitudina l	Routine Activity Theory (Cohen and Felson 1979; Felson 1998)	1. Pennsylva nia 2. Arizona	Court System	Data for the present analyses were drawn from a sample of 1,354 adolescents (1,170 males and 184 females) participating in the Pathways to Desistance study, a prospective study of serious juvenile offenders in two major metropolitan areas (see Schubert et al. 2004 for complete details of study methodology). The enrolled adolescents were between 14 and 17 years of age at the time of committing a serious felony offense for which they were adjudicated. The mean age of the sample is 16 years and the sample is primarily Black (41.5 %), followed by Hispanic-American (33.5 %), non-Hispanic White (20.2 %), and other	X	X

ethnicities (4.8 %)

(approximately four full days of unauthorized absence across the academic year)

Whether or not a student reported truancy or suspension or expulsion in a given month 1. Month or expuls school 2. Month from sch

Kearney & Hendron, 2016	Quant cross- sectional	Response to Intervention Model Kearney, C. A., & Graczyk, P. A. (2014). A response to intervention model to promote school attendance and decrease school absenteeism. Child and Youth Care Forum, 43, 1–25. doi:10.1007/s 10566-013-9222-1	Nevada, United States	1. Family courts and services center 2. Truancy diversion program	Participants included 398 middle and high school students ages 11 through 19 years (M = 14.41; SD =1.80 years). Youths identified as Hispanic (66.9 percent), African American (9.7 percent), European American (7.9 percent), other (6.9 percent), multiracial or biracial (4.6 percent), multiracial or biracial (4.6 percent), and American (2.3 percent), and Native American (1.3 percent). Slightly more than half were male (52.9 percent).		X		Students who had approached or exceeded the legal limit of 10 absences in a 15-week semester
Keppens et al., 2019	Quant cross- sectional	N/A	Belgium	School	The LiSO project follows a cohort of 6457 students in 57 schools who started secondary education in the school year 2013–2014 (Stevens et al., 2015). A regional sampling strategy was used whereby nearly all students in the targeted cohort who attended school in the target geographic region were included in the study (Dockx et al., 2019). For the present study, data were used from wave 4 (T4) which was gathered at the end of the fourth year (May 2017) of	X	X	X	The number of times a student skipped school without a valid reason in the current school year (includes explanation for absence)

Informat

school re

1. Absentitem/mea

school re

items gauging self-reported school absenteeism. The total sample of students in T4 consisted of 6545 students in 53 schools. Within this sample, 4344 students completed the questionnaire in a valid way resulting in a total response rate of 66.69%.

Keppens, 2022

Quant crosssectional

Not specified

Belgium, Europe

School

A random sample of 10% (n = 6260) of all pupils enrolled in the fourth year of secondary education (which equates to students of ages 15–16 years if they have followed a standard trajectory) in the 2014-15 school year. 51.04% of the participants were boys and 12.80% spoke a foreign language at home. The mean age of the study population was 16.38 years (SD = 0.69)

X

One school absence is registered as a half school day of nonattendance Informat school re

Kim &	
Gentle-	
Genitty,	
2020	

Quant crosssectional

Transformativ e School-Community Collaboration

(TSCC; Kim,

2017)

School

Indiana

3428 students across 14 schools. About 53% were female (n = 1726) and 59% were White (n = 2024). More than 56% of students (n = 1905) were aged 6-15 years, whereas about 44% were

aged 16-20 years.

X

Days of missed school in the last school year Absentee item/mea

Kirksey, 2019	Quant longitudina l	N/A	California	School	This study used pre-registered secondary data from a California school district and the sample size of participants is not specified. Demographic information provided includes participants being 52% Male, 78% Hispanic, 5% Asian, 4% Other Race, 1% Black				X	X	Number of classes and full school days missed in one academic year	Informatischool re 1. Percendays mis 2. Percenmissed 3. Discip
Klein et al., 2020	Quant cross- sectional	N/A	Scotland, Europe	School	This research uses data from the Scottish Longitudinal Study (SLS), which is a large-scale anonymized record linkage study in Scotland. Our study sample consists of 4620 students in their final year of compulsory schooling. We adjust our multivariable analysis with the following confounders: student sex (53% boys; 47% girls), place of residence (22% rural; 78% urban), ethnicity derived from parental information (97% "White"; 3% "Other ethnic background") and	X	X	X	X		The number of half-days students missed school due in their final year of compulsory schooling	Informatischool re Overall a Sicknessabsenteei Truancy/ exclusion due to fai

'			

Kljakovic & Kelly, 2019	Mixed methods	N/A	England	1. Alternative education program2. Mental health service agency	Qualitative part of this studyThree group interviews were conducted. The first was held with Individual Tuition programme (IT) professionals (n = 5), the second with Tower Hamlets Child and Adolescent Mental Health Services professionals (n = 4), and the third with managers at Tower Hamlets local authority, the PRU and CAMHS (n = 5). Each interview was conducted using a semi-structured interview schedule.	X			Interview topic was school refusing adolescents	Qualitati
Kookana et al., 2016	Quant cross- sectional	N/A	India	School	72 Indian students (42 females and 30 males) aged 13-14 years in 8th grade participated in the qualitative interviews. For the school attendance variable, the data were collected on an anonymous basis (only gender was noted) from those schools that were willing to participate. In total, the data represented the school attendance of 232 students of 8th year		X	X	The total number of days a student was absent in one month	1. Absentitem/mea 2. Inform school re

•

Koutra et Quant N/A Greece School 320 high school X X X X X A X al., 2011 cross-sectional 19 years (53.4% female)

At least one absence (full day or single hour) or suspension from school during past year Absentee item/mea

Kramer et al., 2017	Quant cross- sectional	N/A	New York, United States	Hospital	inpatients with BPD aged 13-17 years (94.2% female, 30.3% Non-White, Mage: 15.7 years) compared with 60 age-matched psychiatrically healthy comparison subjects (83.3% female, 33.3% Non-White, Mage: 14.8 years)		X	Number of students who were suspended or expelled from school	Suspension measure Backgrou Informati (Adolesce Zanarini Backgrou Informati adolescen (BIS-AV McLean 2006.
Krisdapong et al., 2013	Quant cross- sectional	N/A	Thailand	School	1063 children aged 12 years (50.4% female) and 811 children aged 15 years (51.8%) from the Sixth Thailand National Oral Health Survey.	X		Number of school absences in the current semester due to toothache (3 months)	Absentee item/mea
Kuhlmann et al., 2020	Quant cross- sectional	N/A	Missouri, United States	School	58 female students in grades 9-12	X		Last school year, having missed school for any reason related to a period	Absentee item/mea

Kumbe al., 202	N/A	Ghana	School	705 adolescent girls aged 12-19 years	X		Whether or not a student was absent from school due to menstruation- related issues during the last menstruation	Absentee item/mea Menstrua school ab Number o in a mont
Kupchi Catlaw 2015	Methodologic al strategy from McFarland and Thomas (2006)	United Stat es	School	We used participant data from Add Health, a longitudinal, nationally representative sample of adolescents who were in Grades 7 to 12 in the 1994-1995 school year. It includes a cluster sample of 80 high schools selected from a sampling frame of 26,666,		X	Having ever been suspended from school	Absentee item/mea

and their feeder

school questionnaires, and an administrator from each school completed an administrator questionnaire. Of these students, 20,745 were randomly selected to complete inhome interviews at multiple times. We use all cases of adolescents who have complete data from in-school Wave 1 questionnaires, Wave 1 and Wave 2 school administrator interviews, inhome Wave 1 questionnaires, inhome Wave 1 parental questionnaires, inhome Wave 3 questionnaires, and in-home Wave 4 questionnaires (n = 9,006 for Wave 3; n = 7,361 for Wave 4).

Kupchik et al., 2022

longitudina cognitive theory (Bandura, 1986)
2. Ecological systems theory (Bronfenbren ner, 1979)

Delaware, School United States

X The sample X consisted of 28 schools, within which there were N = 3160 8th grade students and N = 1650 11th grade students. This sample is composed of 45% White students. 29% Black students, 19% Latino/a students, and 3% of students

of other or multiple

Having ever skipped a day of school

variable :
Department Educatio
School S

Skipping

Bear, G. Harris, A Hearn, S (2019). T manual f Delaward survey: S school cl

bullying

student e

emotiona competer http://wh pbs/scho climate/c school-cl 2018-19/

Informat school re

Lane et al., 2019	Quant longitudina l	Systems Perspective McIntosh, K., & Goodman, S. (2015). Integrating multi-tiered systems of support: Blending RTI and PBIS. New York, NY: Guilford Press	United Stat	School	Study 1: Participants were 2,313 middle school students (1,202 males) attending one of four middle school in the Midwest who were rated by their advisory teachers (n = 171) on the SRSS-IE. Schools served students in sixth (34.52%), seventh (33.81%), and eighth (31.67%) grades. Students were predominantly White (75.08%, n = 1,690). Study 2: Participants were 2,727 students (1,393 males) attending one of two public high schools in the Midwest who were rated by their second-period

ols = re

The total number of days a student was assigned in-school suspension due to serious or repeated infractions

X

					(23.99%), 11th (25.06%), and 12th (21.72%) grades. Students were predominantly White (76.23%, n = 2,008),				
Langdon et al., 2022	Quant cross- sectional	N/A	Washingto n, United States	Hospital	99 participants aged 12-17 years who were mostly female (70%) with an average age of 14.8 years. Participants are 39% Caucasian, 33% African American, 21% Other, 4% Unknown, 2% No response.	X		The number of full days with less than half normal functioning in school and partial days of school missed over the preceding three months.	Absentee item/mea
Lannegrand-Willems et al., 2012	Quant cross- sectional	N/A	France, Europe	School	Participants were 523 students (317 males, 60.6%; 206 females, 39.4%) aged 15- to 22-years-old (M ¹ / ₄ 16.13; SD ¹ / ₄ 0.95).		X	Absenteeism was defined as missing between 4 and 10 half- days of school per month Problematic absenteeism was defined as missing more than 10 half- days of school per month.	Informat school re
Larm et al., 2017	Quant cross- sectional	N/A	Sweden	School	2045 students in 9th grade aged 15- 16 years (49.7% female)	X		At least one absence from school (without valid reason)	Absentee item/mea

Leos-Urbel, 2014	Quant longitudina 1	Not specified	New York, United States	School	24,179 students who applied to the summer employment program for the summer of 2007 and were in New York City public schools in both the school years before and after the program (school years 2006 to 2007 and 2007 to 2008).	X	The number of days a student attended school	Informati school re
Lerang et al., 2018	Quant cross- sectional	N/A	Norway, Europe	School	The sample contained 1975 students from grades 8–10 (age 14–16) in 11 Norwegian lower secondary schools	X	The number of days a student was absent from school in the previous fall semester	Absentee

Lessard et al., 2020	Quant cross-sectional	N/A	United Stat es	Social Media	All participants (ages 13–17 years) identified as LGBTQ, spoke English, and were currently living the U.S. The final analytic sample included 17,112 participants. Self- reported ethnicity revealed the sample to be 62% White, 11% Latino/a, 6% African American, 4% Asian, and 17% from other ethnic groups. Taking into account sex assigned at birth and gender identity, participants were 43% cisgender female, 24% cisgender male, 21% transmasculine/non -binary, 8% transfeminine/non- binary, and 1% transgender female/boy, 3% transfeminine/non- binary, and 1% transgender female/girl. Just over a third of the sample identified as gay/lesbian (38%), 35% identified as bisexual 2%	X	Whether or not participants had every received an out-of-school suspension	School variable Health and Health and Health and Health and Health and Health (1994-20 Use). A Carolin Center, North Chill [distunivers for Polit Researce 08-06.
					(38%), 35%			
					26% of the sample identified as something else (e.g., pansexual, asexual)			
Liping et al.,	Quant	N/A	United Stat	Family home	3470 adolescents	X	Number of sick	Absente

Lowry et al., 2022	Quant longitudina l	N/A	United Stat es	School	Data were combined from the 2015, 2017, and 2019 national Youth Risk Behavior Surveys to produce nationally representative samples of U.S. high-school students who identified as gay/lesbian (n=1,061), identified as bisexual (n=3,210), were not sure of their sexual identity (n=1,696), or identified as heterosexual (n=35,819).	X
Lucia, 2016	Quant cross- sectional	1. Self-Control Theory (Gottfredson and Hirschi, 1990) 2. Hirschi's Social Control Theory (2002)	Switzerlan d	School	The sample consisted of 4574 pupils in grades 8 and 9 in Canton Vaud between 2003 and 2005. All schools from five districts were included and all pupils enrolled in the 24 schools took part in the study. The pupils ranged in age from 12 to 18 (mean age = 14.9, SD = 0.97), with 51.3 percent in grade 8 and 48.7 percent in grade 9. Approximately half (49.5 percent) were girls.	X

Number of days absent due to perception of unsafety at school during the past 30 days

Missing school for at least a whole day without a legitimate excuse during the last 12 months (i.e., truancy)

Absentee

Absentee

item/mea

	·	
Medical clinic	50 adolescents with inflammatory bowel disease (62% male, 90% White) and 42 healthy comparison adolescents (52% male, 83% White) and their parents. For the IBD sample, eligibility criteria included age 11 to 17 years, diagnosis of IBD for at least 1 year, and a gastroenterology (GI) clinic visit within 1 week of completion of the study questionnaires. For the healthy comparison sample, eligibility criteria included age 11 to 17 years and no history of a chronic illness, defined as a 6-month or longer condition requiring treatment by a medical subspecialist.	X

Mackner et al. (2012)

Quant

crosssectional N/A

Ohio

Number of full day absences in one school year

Informat school re

Maeda & Heyne, 2019	Quant longitudina l	1. Berg's criteria for school refusal (Berg, 1997, 2002) 2. Active approach to clinic-based treatment for school refusal (e.g., Aida, 1978; Maeda, 2012) Aida, M. (1978). Futoukou ni taisuru chichioya ni yoru kyouseihou [One approach to school refusal: flooding method by the client's father]. Jpn. J. Psychother. 4, 57–63. Maeda, N. (2012). The effects of active parental intervention on school refusal behavior. Prog. Soc. Welf. Res. 7, 15–25 Berg, I. (1997). School refusal and truancy. Arch. Dis. Child. 76, 90–91.doi: 10.1136/adc.7 6.2.90	Japan	School	The parents of 62 adolescents were given the opportunity to implement the school-based rapid school return approach. In 39 cases (19 males and 20 females) the parents agreed to implement the approach. These cases constitute the intervention group. The 39 adolescents were between 12 and 14 years (M= 13.4, SD = 0.6 years). The non-intervention group comprised the 23 cases (13 males and 10 females) in which the parents did not agree to implement the approach. The 23 adolescents were aged between 12 and 15 years (M = 13.3, SD = 1.0 years).	X

Adolescents who had missed more than four consecutive school days or 10 intermittent school days in the school year so far, and who met Berg's (1997, 2002) school refusal criteria, were included in the study.

Absentee

item/mea

*Berg's school refusal criteria include (a) remaining at home with the knowledge of the parents; (b) an absence of severe antisocial behavior, apart from possible aggressiveness when the young person is forced to go to school; (c) parental attempts to get the child to attend school; and (d) displaying emotional upset at the prospect of attending school.

and truancy,"
in Child and
Adolescent
Psychiatry: A
Comprehensiv
e Textbook,
3rd Edn, ed
M. Lewis
(Sydney,
NSW:
Lippincott
Williams &
Wilkins),
1260–1266.

Macdu, Qualitative N/A Auia Sehool I Dis intervention X and findament of Education

or inappropriate sexual activity.Ministry of Education, Culture, Sports, Science and Technology-Japan. (2000). Survey of School Refusal. Blagg, N. R., & Yule, W. (1984). The behavioural treatment of school refusal-A comparative study. Behaviour Research and Therapy, 22, 119-127. http://dx.doi.org /10.1016/0005-7967(84)90100-

Maeda, Qualitative Morita Japan, TherapyIshiya 2017 Asia ma F. I. (1986). Morita therapy: Its basic features and cognitive intervention for anxiety treatment. Psychotherap y: Theory, Research, Practice, Training, 23.

pan, School

One 14-year-old
Japanese female
student enrolled in
the eighth grade in

the eighth grade in a local public junior high school. X

The number of school days that the adolescent attended over the course of one academic year

Informat

school re

Maina et al., 2020

Quant N/A cross-sectional

Kenya

Family home

426 male adolescents aged 10–14 years living in households covered by the Nairobi Urban Health and

Demographic

X

Having ever missed school during the past month Absentee item/mea

					informal settlement.					
Martin, 2020	Qualitative	Berg's definition of school refusal Berg I. School refusal and truancy. Arch Dis Child (1997) 76(2):90–1. doi:\10.1136/a dc.76.2.90	France, Europe	School	52 school personnel in middle and high schools from two regions of France	X		wusst. de score by we a) ree score le production and structure score production are score pro	interviews, the specifically sed the andard efinition of chool refusal by Berg (9, 27), which includes: the reluctance or efusal to attend chool, often adding to colonged by the reluctance of	Qualitativ
Marvul, 2012	Quant longitudina l	Not specified	New York, United States	School	The sample included 40 truant male students who were randomly assigned to intervention and control conditions. All of the participants were classified as at-risk for school failure.		X	as pr be se in	Il students had ssigned to the rogram ecause of evere truancy their regular chools.	Informati school re number of over the of months (intervent control g

for school failure.

50 between Black and Hispanic students, with a small number of Native American and other students, with the "Other" students being of mixed race.

Maynard et al., 2012

Quant

cross-

sectional

N/A

United Stat Household es

on public-use data from the 2010 National Survey on Drug Use and

This study is based

Health (NSDUH; SAMHSA 2011). The sample

consisted of adolescents aged 12–17 years that

reported having skipped one or

more days of

X

Having skipped one or more days of school during the previous 30-day period

Absentee item/mea the sample is 15.2 years (SD = 1.6). The respondents were evenly distributed between males (50.2 %) and females (49.8 %). 55.5% of participants are White, 22.7% are Hispanic, and 14.1% are African-American. The remaining 7.8% of youth reported American Indian or Alaska Native, Asian, other Pacific Islander or Native Hawaiian identities, or more than one race and were categorized as "other" race/ethnicity.

Maynard et al., 2017

Quant N/A cross-sectional

United Stat Household es

This study examined publicuse data collected between 2002 and 2014 as part of the National Survey on Drug Use and Health (NSDUH).The current study restricted analyses to non-Hispanic White, African American, and Hispanic respondents between the ages of 12 and 17 (n =209,393).

X

The number of days a student missed school because they skipped, cut, or just didn't want to be there in the past 30 days

the Nation Drug Use (NSDUE Substance Mental H Administ from the Survey of and Heal of nation Rockville Substance Mental H

Administ

Truancy

Mazerolle,	Quant	Third Party	Queenslan	School	102 truanting
Antrobus, et	longitudina	Policing	d,		young people aged
al. 2017	1	(Mazerolle	Australia		10-16 years (Mage:
		2014;			12.98 years) and
		Mazerolle&			their guardians
		Ransley 2006)			were recruited for
		• /			the study.
					Approximately
					53% of the sample
					was male. 51 youth

were randomly allocated to both the experimental and control conditions.

X

Students needed to have 85% or less attendance in the three previous school terms and have no legitimate explanation for their absences from school (e.g., legitimate medical illness)

Informat

school re

McGarvey et al., 2014	Quant longitudina l	N/A	United Stat es	Household	The sample includes 147 adolescents aged 12-18 years. Overall, the majority of the	X	X	The average number of days that students missed school and were expelled from	1. Absenvariable 2. Expul
					adolescents were males and there were more White than African-			school in one academic year	
					American adolescents				

enrolled.

McNeely et al., 2019

Quant longitudina

N/A

United Stat School es

The linked dataset contained 4412 students in 7th-10th grades referred to TIP between 2006 and 2009.

X

Five full days of unexcused Informat school re absence from school (prompts referral to the Truancy Intervention Program)

Meinck et al., 2015	Quant cross- sectional	Bronfenbrenn er's Ecological Theory (Bronfenbren ner, 1979)	South Africa	1. Non- governmen tal organizatio ns2. School3. Communit y	603 children aged 13-19 years (47.9% female)				X	Number of days in past week children did not attend school	Absentee item/mea
Melander et al., 2022	Qualitative	N/A	Finland	School	The ten focus groups had 55 participants, one to eleven per group. Most participants (75%) were female. The groups included (vice) principals, special education/resource/subject teachers, guidance counselors, school social workers, school psychologists, school nurses, school doctors, and social workers working in child protective services	X	X	X		Not specified	Focus gro
Miiro et al., 2018	Mixed methods	N/A	Uganda, Africa	School	The study was conducted among students in secondary school years (predominantly age 15–16 years) in four secondary schools.			X		Whether a girl missed a half- day or full-day of school during her period	1. Intervi 2. Self-re

•

Mitchell et al., 2020 cross-sectional

1. The Minority Threat Hypothesis (which is rooted in conflict theory; Quinney, 1977; Turk, 1969). 2. School Prisonization

(Hirschfield,

2008)

Arizona So

School

This study uses a sample of schools (259 middle and high schools) across Arizona, drawn from the 2004 wave of the Arizona Youth Survey (AYS) and Safe and Drug-Free Schools (SDFS) survey conducted in Arizona. Data are derived from the 2004 AYS and the 2004 wave of the SDFS. The AYS is a biennial school-based survey of eighth-, 10th-, and 12thgrade students, administered in schools across all 15 counties in Arizona. All schools (e.g., traditional public, private, charter, and reservation schools) are eligible to

X

Removal of a student for at least 1 year, referral of a student to law enforcement, suspension or removal of a student for less than 1 year, and/or transfer of a student for at least 1 year.

Absentee item/mea

this sample is
representative of all
students within the
state of Arizona.

Morris & Perry, 2016	Quantitativ e longitudina l	Racial Segregation and the Achievement GapCondron, Dennis J., Daniel Tope, Christina R. Steidl, and Kendralin J. Freeman. 2012. "Racial Segregation and the Black- White Achievement Gap, 1992- 2009." The Sociological Quarterly 54:130–57	Kentucky, United States	School	Our sample includes 16,248 students in grades 6 through 10 who were enrolled in 17 district public schools. At baseline, about 65 percent of students are in grades 6 to 8 (ages 11 to 13), and 35 percent in grades 9 to 10 (ages 14 to 16). Approximately 49 percent of students in the sample are girls and 51 percent are boys. The majority of these students are white (59 percent) or black (25 percent). However 10	X	Whether or not a student was suspended in a given academic year	Informat school re
Mowen et al., 2019	Quant longitudina	1. Cumulative Disadvantage	United Stat	Household	black (25 percent). However, 10 percent are Latino, 4 percent are Asian, and 3 percent classify themselves as some other race. A national, household-based	X	Having ever been suspended	Absentee item/mea
	l	Theory (Sampson & Laub, 1997) 2. Labeling Theory			survey, the NLSY97 consists of a total of 8,984 youth between the ages of 12 and 18		from school across the four waves of data collection	

			collected from the same respondents over time. Data collection occurred annually. The first wave of data were collected in 1997 (ages 12–18), wave two in 1998, wave three in 1999, and wave four data were collected in 2000 (ages 16–22). Participants were51.4% female and 52.5% White, 21.6% Black, 20.2% Hispanic, and 5.7% Other. The mean age at wave one is 14.047 years (range is 12–18 years)
N/A	United Stat	School	Participant data

X Mukherjee Quant longitudina et al., 2020 was drawn from es the Youth Risk Behavior Surveillance Survey for 1991-2017. 195,280 students in grades 9-12 had valid survey responses during 1991-2017. Nearly 63% were non-Hispanic white, 14% non-Hispanic black or African American, 16% Hispanic, 4% non-Hispanic Asian or Native Hawaiian or other Pacific Islander, less than 1% non-Hispanic American Indian or Alaska Native, and more than 3% non-Hispanic

multiracial

During the past 30 days, the number of days a student did not go to school because they felt unsafe at school or on their way to or from school

Absentee item/mea

Mulia et al., 2022	Quant longitudina l	Cumulative disadvantage theory and the chain of risks model from life-course epidemiology Kuh D, Ben-Shlomo Y, Lynch J, Hallqvist J, Power C. Life course epidemiology. J Epidemiol Community Health. 2003;57:778–83.	United Stat es	Household	Data are from 1299 black Americans (654 females and 645 males) in the US National Longitudinal Survey of Youth, followed from 1979 (aged 15–19 years) to 2012.	X		Having ever been suspended or expelled from high school	Unique it
Munoz et al., 2014	Quant cross- sectional	N/A	Kentucky, United States	School	The sample included one Early College High School Initative (ECHS) school and two matched control schools. The ECHS school sample included 146 students (40.41% female). Control school A had 184 students (45.11%) and control school B had 89 students (48.31% female)	X	X	The number of out-of-school suspensions a student received in one academic year	Informati school re 1. School rate 2. School rate

Nichols et al., 2016	Quant cross- sectional	Developmenta l ecological perspective Brofenbrenner, U., & Ceci, S. (1994). Nature-nurture reconceptualiz ed in developmenta l perspective: A bioecological model. Psychological Review, 101(4), 568–586.	United Stat	School	Participants were drawn from the In Home Survey of the Add Health dataset, a nationally representative study of seventh to twelfth grade students in the United States between 1994 and 1995 (Harris et al. 2009)	X	
Nijhof et al., 2016	Quant cross- sectional	N/A	Netherland s, Europe	Outpatient clinic	204 adolescents (ages 10–18 years who visited the pediatric rheumatology and immunology outpatient clinic at Wilhelmina Children's Hospital from April through July 2013 were invited to participate in the study. As a reference group, we used healthy subject data collected from the		X

Truancy the In Ho The number of days a student skipped school during one school year

the Add Harris, K C. T., W Hussey, . Entzel, P

(2009). T Longitud Adolesce Research [WWW URL: http://ww u/project sign.

School attendance was measured as the percentage of classes attended during the 6 months prior to the study

Absentee item/mea

female) with a
mean 6 SD age of
15.3 6 0.5 years
(22)

					15.3 6 0.5 years (22)				
Nik Jafaar et al., 2013	Quant cross- sectional	N/A	Malaysia	School	373 16-year-old adolescents attending three high-risk schools in Kuala Lumpur. The study sample consisted of an approximately equal number of male (56.6%, n = 211) and female (43.4%, n = 162) subjects. The racial distribution of the study sample was 63% Malay (n = 234), 26% Chinese (n = 100), 9% Indian (n = 33) and 2% other (n = 6), which is representative of the Malaysian population	X		"Truants" are identified as those who were "absent from school on official schooling day without verbal or written reasons from parent(s) or guardian or a medical doctor" for a total of 20 days or more (moderate to severe truancy) based on the guidelines by Kuala Lumpur Federal Territory Education Department (2004; p. 89).	Informati school re
Novak & Krohn, 2020	Quant longitudina l	Labeling Perspective (Paternoster & Iovanni, 1989)	United Stat	Communit y agency	838 youth at-risk of maltreatment and/or with a history of maltreatment whose data is from the LONGSCAN study (Runyan et al., 1998). Participants are 55% Black, 25% White, 7% Hispanic, 13% Other. 56% are female.		X	Whether they had been suspended at least once in the past year	Absentee item/mea

Novak et al., 2022	Quant longitudina l	1. The age-graded theory of informal social control (Sampson & Laub, 1993)2. Cumulative disadvantage framework (Sampson & Laub, 1997)	1. Philadelphi a2. Arizona	Family Home	Data from this study were taken from participants in the Pathways to Desistance Study, a longitudinal study of factors affecting desistance among serious adolescent offenders. From 2000 to 2003, the study enrolled 1,354 youth offenders who had been processed in juvenile justice systems or waived to the adult court systems in Phoenix and Philadelphia. To be eligible for the study, individuals had to be between 14 and 18 years old and adjudicated or found guilty of at least one felony or serious misdemeanor violent, property, or drug offense (Schubert et al., 2004). The analytic sample was reduced to include only youth aged 14 to 16 at Wave 1 (approximately ages 16–18 at wave 5) to focus on the school-aged participants (N=829). At Wave 1, youth were 15 years old, on average. Forty percent identified as Black, 33% as Hispanic, 22% as White, and 4% as

Being suspended or expelled at least once from school in their lifetime

X

Absentee item/mea to Desist StudyScl Mulvey, Steinberg Cauffma S. H., He Knight, Operation from the desistance Youth vi juvenile 237-255.

sectional (Liberman et algemeires). al. 2014; Medical elamonter & left in Medical ela										
395Sampson, R. J., & Laub,	2022 cross-	Theory (Liberman et al., 2014; Paternoster & Iovanni, 1989)2. Life course theory of cumulative disadvantage (Sampson & Laub, 1997)3. Age-graded theory of informal social control (Sampson and Laub, 1993) Liberman, A. M., Kirk, D. S., & Kim, K. (2014). Labeling effects of first juvenile arrests: Secondary deviance and secondary sanctioning. Criminology, 52(3), 345–370.Paternost er, R., & Iovanni, I. (1989). The labeling perspective and delinquency: An elaboration of the theory and an assessment of the evidence. Justice Quarterly, 6(3), 359–395Sampson,	es	service agencies2. Medical	were drawn from the LONGSCAN study. 55.44% of the sample identified as male, 55.18% identified as Black, 25.16% as White, 13.50% as Other, 6.16% as	X	X	be fro eir be be ag 16 no sk in (ro	een suspended om school, ther at or efore age 12 or etween the ges of 13 and 62. Whether or of a youth has cipped school the past year eported at age	1. Susper variable2 variable

through the life. Harvard University Press.Sampso n, R., & Laub, J. (1997). A life-course theory of cumulative disadvantage and the stability of delinquency. In T.
Thornberry (Ed.), Developmenta l theories of crime and delinquency (pp. 133-161). New Brunswick, NJ:

Transaction Publishers.

Obsuth et al., 2017	Quant longitudina l	N/A	London, Europe	School	300 students across 17 schools were assigned to the treatment condition and 306 students across 19 schools were assigned to the control condition. Of the 606 total students, 71% were male (Mage = 14.05 years) and 176 (29%) were female (M age = 13.98 years). More students identified themselves as "Black-African, Black-Caribbean or Black British" (n = 244; 40.3 %) than any other category, with "White British" students comprising the second largest
					second largest racial grouping (n = 151; 24.9 %).

Having been suspended or excluded from school at least once in the academic year

X

School e

Educational Florida X X Ohlson et al. School 1657 teachers Quant (2016)Performance across 50 schools crosssectional Framework (71% female, 51% (Goldhaber & White, 28% Brewer, 1997; Hispanic/Latino, Levin, 2004) 18% African-American/Black, 3% Asian/Pacific Islander)

Excessive

student absences

were quantified

as 21 or more

days absent

within each

school

Informat

school re

Onyeaka et al., 2020	Quant cross- sectional	N/A	Benin, Ghana and Liberia (Africa)	School	8912 school-going adolescents aged 11–18 years who participated in the Global School-based Student Health Survey between 2012 and 2017. They participated in three West African countries.		X			The number of days a student missed classes or school without permission in the past 30 days	Truancy WHO, C Based St Survey (Geneva, 2012, http://ww p/ gshs/e
Ozcan, 2020	Qualitative	N/A	Turkey	School	21 school counsellors participated in this research (57% female)	X	X	X	X	Not specified	Qualitati
Palmer & Gretak, 2017	Quant cross- sectional	N/A	United Stat es	1. Online 2. Communit y Agencies	8215 middle and high school students who identified as lesbian, gay, bisexual, queer, or a sexual orientation other than heterosexual or described themselves as transgender or as having another gender identity that is not cisgender. Students were 16.08 years on average and 68.6% identified as White, 14.&% as Hispanic/Latinx, and 8.4% as Multiracial, and	X	X		X	Missed school at least once due to safety concerns	Absented item/med 1. Four 1 school d 2. One n school a

Quant cross- sectional	N/A	Africa	School	25,372 school- going adolescents (Mage 14.3 years, 51.8% male) across 9 African countries	X			The number of days that a student missed classes or school without permission in the past 30 days
Quant cross- sectional	N/A	Oceania	School	Data utilized were from the cross-sectional "Global School-Based Student Health Survey (GSHS)". The total sample included 10968 adolescents (mean age 14.1 years) from seven Pacific Island countries.	X			The number of days a student missed class or school without permission in the past 30 days
Quant cross- sectional	N/A	Kuwait, Asia	School	The study sample comprised of 3,637 in-school adolescents (15 years median age) in grades 8-12 from Kuwait, 51.1% were girls and 48.9% were boys.	X			The number of days a student missed classes or school without permission in the past 30 days
Quant cross- sectional	N/A	Europe	School	Adolescents aged X 15-16 years across 36 European countries	X	X	X	Having missed at least 3 school days in the last month
	Quant cross-sectional Quant cross-sectional Quant cross-sectional	Quant N/A cross-sectional Quant N/A cross-sectional Quant N/A cross-sectional	Quant cross-sectional Quant cross-sectional Quant N/A Kuwait, Asia sectional Quant N/A Europe	Quant N/A Oceania School cross-sectional Quant N/A Kuwait, School cross-sectional Quant N/A Europe School cross-	Cross-sectional Quant N/A Oceania School Data utilized were from the cross-sectional School-Based Student Health Survey (GSHS)". The total sample included 10968 adolescents (mean age 14.1 years) from seven Pacific Island countries. Quant N/A Kuwait, School The study sample comprised of 3,637 in-school adolescents (15 years median age) in grades 8-12 from Kuwait, 51.1% were girls and 48.9% were boys. Quant N/A Europe School Adolescents aged X cross-sectional Quant N/A Europe School Adolescents aged X 15-16 years across sectional	cross-sectional Quant N/A Oceania School Data utilized were tross-sectional Quant N/A Oceania School Data utilized were from the cross-sectional "Global School-Based Student Health Survey (GSHS)". The total sample included 10968 adolescents (mean age 14.1 years) from seven Pacific Island countries. Quant N/A Kuwait, School The study sample comprised of 3,637 in-school adolescents (15 years median age) in grades 8-12 from Kuwait, 51.1% were girls and 48.9% were boys. Quant N/A Europe School Adolescents aged X X Cross-sectional Quant N/A Europe School Adolescents aged X X Cross-sectional Quant N/A Europe School Adolescents aged X X X Cross-sectional	cross-sectional Quant N/A Oceania School Data utilized were from the cross-sectional Quant cross-sectional School Data utilized were from the cross-sectional "Global School-Based Student Health Survey (GSHS)". The total sample included 10968 adolescents (mean age 14.1 years) from seven Pacific Island countries. Quant N/A Kuwait, School The study sample comprised of 3,637 in-school adolescents (15 years median age) in grades 8-12 from Kuwait, 51.1% were girls and 48.9% were boys. Quant N/A Europe School Adolescents aged X X X X cross-sectional Quant N/A Europe School Adolescents aged X X X X 15-16 years across sectional	cross-sectional Quant

Truancy School-E Survey (

2017)Cei Disease (Preventic (2018). C based stu survey (Retrieved https://w

Truancy Global S

Student I (GSHS)

Centers f

(CDC). (school-bahealth su Retrieved https://w hs/

Global S Student I (GSHS; (Citation: School-E Health S WHO, G Switzerla http://ww p/gshs/e

Absented item/mea

Percentage with absordays (due skip, any Number missed in (due to il any reason)

Pesta, 2018 Quant theory of crosses sectional cumulative disadvantage Sampson, R., & Laub, J. (1997). A lifecourse theory of cumulative disadvantage and the stability of delinquency. In T. Thornberry (Ed.), Developmenta 1 theories of crime and delinquency (pp. 133-161). New Brunswick, NJ:

> Transaction Publishers.

Life course

United Stat Household

Data of 4822 participants are drawn from the National Longitudinal Study of Adolescent to Adult Health (Add Health). 2805 participants identified as non-Hispanic White, 1065 as non-Hispanic Black, and 451 as Hispanic.

X

Having ever received an outof-school suspension or having ever been expelled from school

Exclusion variable

N/A Secondary schol X X X X Pflug et al., Quant Germany School 2016 students aged 10crosssectional 21 years (Mage: 15.1 years, 52.9%

male)

if they had missed school during the past 7 calendar days, regardless whether they had been absent for single lessons, parts of a school day or for one or more days. Additionally, the question of whether the child or adolescent frequently stayed away

from school had to be answered with a "yes".

The child or

considered a

adolescent was

school absentee,

Absentee

item/mea

						·			but had responded "no" to the question of frequently staying away from school, he/she was excluded from data analysis.	
Prakash et al., 2017	Quant cross- sectional	Not specified	India	School	2275 adolescent girls aged 13-14 years		X	X	The number of days in the past month that an adolescent did not attend classes. Those who reported being absent from school for 4 or more days in the past 30 days were defined as 'frequently absent.'	Absentee item/mea
Prince et al., 2018	Quant cross- sectional	N/A	South Carolina, United States	School	360 students with disabilities in a southeastern state who exited special education in the school years ending June 2009, 2010, and 2011.		X		Number of out- of-school suspensions or expulsions for violent and/or criminal offenses	Informati school re

Reference (author, date)								
Rivara et al., 2022	Quant longitudina l	N/A	Washingto n, United States	School	200 adolescents aged 11 to 18 who had a medically diagnosed sports or recreational related concussion within the past 9 months, and at least 3 symptoms persisting at least 1 month after injury. They had a mean age of 14.7 years, 62.0% were female, approximately 80% were White.	X	Number of missed school days due to injury (concussion)	Concuss Assessm Survey (CLASS Vaughar L, Sady CA, Gio Academ concussi and adol Pediatric 2015;13: 1050. [P 2596301 Babikiar et al. Ide challeng

Rocque et	Ouant	N/A	London,	1. Research	Cambridge Study	X
al., 2016	longitudina		England	Office	in Delinquent	
	1		_	2. Family	Development	
				home	(CSDD; Farrington	
					(1980, 1989; see	
					also, West &	
					Farrington, 1973).	

Absented item/mea Farringto Later life truants in Cambrid Berg & J

challenge concussion psychom for the C

Learning & Schoo

Ed. (CLA Pediatr N 2020;6:2

South London. The sample was generated by targeting all boys aged 8 to 9 on the list of six primary school registries within a one-mile radius of the research office. The sample was working class, mostly White (97%), and aged 8 to 9 when the study was initiated (Farrington, 1996; West & Farrington, 1973). Interviews have been conducted when the boys were approximately aged 8, 10, 14, 16, 18, 21, 25, 32, and most recently, at age 48.

Rose et al., 2017

Quant crosssectional 1. Dual-factor model of mental health (Greenspoon and Saklofske 2001)2. Subjective well-being (Keyes, 2006)

Michigan, Household United

States

This study is a secondary analysis of the 2001-2003 National Survey of American Life-Adolescent Supplement (NSAL-A; Jackson et al. 2004). The final sample consisted of 1170 participants, 810 African Americans 360 Blacks of Carribean descent. They ranged in age from 13 to 17 years (Mage: 15.03). The sample did not significantly differ by gender (48% male; 52% female).

X

Having ever been suspended or expelled from school

item/mea suspension School et variableC about sus expulsion from the Longitud Adolesce Health (A

Harris 20 al. 2009)

Absentee

Rosenbaum, 2018 Rosenbaum, 1 in the longitudina secondary deviance hypothesis (Gibson & Haight, 2013; Michail, 2012) 2. Selection bias (no citation provided) 2. Selection bias (no citation provided) 2. Selection bias (no and private high schools and their feeder middle schools in 1994-1995. The Add Health surveys were given to adolescent respondents in 1994-1995. The Add Health surveys were given to adolescent respondents in 1995 (Wave 1, 1850), 1996 (Wave 2, 88.6%), 2001 (Wave 3, 77.4%), and 2008 (Wave 4, 80.3%); their parents (93% fermale parents) in 1995 (response rate 82.5%), and 2008 (Wave 4, 80.3%); their parents (93% fermale parents) in 1995 (response rate 97.7%; National Longitudinal Study of Adolescent Health, 2015). Respondents were a 9.593 person subsample who participated in

Whether the student had been suspended during a Harris, K particular academic school Suspensi from Ado from Ado

year

X

Harris, K J. R. (20 longitudi adolescen health (a 1994-200 Use]. An Carolina Center, U

Hill [dist universit for Politi

Research 08-06.

"Have you ever been expelled from school?").

Saelzer &	
Lenski, 2016	

Quant crosssectional Sutherland's theory of differential associationSut herland, E. H. (1924).Criminology (4th ed.). Philadelphia,

PA:

Lippincott

Germany, Europe

School

2012 sample in Germany (Prenzel, S€alzer, Klieme, & K€oller, 2013). **Participants** consisted of 4,763 students in 210 high schools, located in all 16 federal states of Germany. All students were born in the year 1996 and, according to the birth cohort definition, were 15 years old at the time of the PISA test.

Our data are drawn

from the PISA

X

Truancy was defined as having ever skipped at least one lesson of the school day

5-item tr indexKit A., & Sc (2005). E leaving a Research Austria:

Sanderson et al., 2013	Quant cross- sectional	1. The Developmenta 1 Asset Profile (DAP; Search Institute, 2005) 2. Cultural and Social Capital (Mignone & O'Neil, 2005)	Alberta	School	67 high school students in grades 10-12 (52% male) in the community of Hobbema, which is comprised of four Cree nations: Samson, Louis Bull, Montana, and Ermineskin.		X	Those with less than 75% attendance rates are considered to have low attendance	Informati school re
Seidu et al., 2019	Quant cross- sectional	N/A	Ghana	School	This study used data drawn from the 2012 Global School-based Health Survey (GSHS). A total of 1 433 pupils were surveyed. This sample included 791 (55.2%) males and 642 (44.8%)	X		The number of days a student missed class or school without permission in the past 30 days	Centers f Control (Global So Student I Retrieved https://ww hs/index.

were aged	15 years
or older.	

Seidu et al., 2022	Quant cross- sectional	N/A	Africa	School	This study used secondary data of the 2015 round of the Seychelles Global Schoolbased Health Survey (GSHS). For this study, 1,833 adolescents were included in the analysis. More than half (57.1%) were females and the remaining were (42.9%) males. Majority of the adolescents (62.6%) were within the age range 11–14 years.	X		The number of days a student missed classes or school without permission in the past 30 days	Truancy measured M., Visw & Bovet, Seychelle school-be health su Seychelle Health S 83.
Shabazian, 2014	Quant longitudina l	1. Critical Race Theory (Delgado & Stefanicic, 2006) 2. Spatial Theory (Hartigan, 1999)	United Stat es	School	Data for this study were collected from the second largest urban school district in the United States. The sample population was 56 high schools (grades 9-12) located in the district with a population of 468,681 students over three school years (2001-2004).		X	Number of suspensions or expulsions for each of three school years (2001-2004)	Informat school re
Shorter et al., 2020	Quant cross- sectional	N/A	United Stat	School	Participants were 367 adolescents (females: n = 214;	X		Truancy was defined as the total number of	Absentee

					Appalachian region (geographically and culturally) of rural East Tennessee. The sample was 94% Caucasian with a mean age of 15.9 years (SD = 1.4) and a mean gradelevel of 10.2 years (SD = 1.2). Participants were 58.3% female and 41.7% male, with the majority of children (53.4%) living at home with both parents (n = 196).		academic school year
Siennick et al., 2019	Quant cross- sectional	Risk-Needs-Responsivity (RNR) model Andrews, D. A., & Bonta, J. (2010). The psychology of criminal conduct (5th edn.). New Providence: Matthew Bender and Company. Andrews, D. A., & Dowden, C. (2006). Risk principle of case classification in correctional treatment: a meta-analytic investigation. International Journal of Offender Therapy and Comparative Criminology	United Stat es	School	869 youth with documented police contact across four participating high schools	X	Whether or not a student received a school suspension during the observation/study period

Informat

school re

Siriwardhan a et al., 2013

Quant crosssectional N/A

Sri Lanka School X

1505 children aged 12-17 years attending government schools in 17 districts

20% absence in one academic year

Informat school re

Sivakami et al., 2015	Quant cross- sectional	N/A	India	School	Surveys were conducted among 1800 menstruating school girls in class 8-10 (above 12 years of age, Mage: 14.1 years) of 43 government schools selected through stratified random sampling in three Indian states in 2015.	X		Whether or not a student goes to school during their period	Absented item/mea
Sivertsen et al., 2013	Quant cross- sectional	N/A	Norway	School	9338 adolescents aged 16-19 years (53.5% female). 306 had delayed sleep phase syndrome (DSPS; Mage: 18 years) and 9032 did not have DSPS (Mage: 17.8 years)		X	Days and hours of absence during past semester (calculated separately)	1. Inform school re 2. Uniquitem/mea

Sivertsen et al., 2015	Quant cross- sectional	N/A	Norway	School	8347 high-school students aged 16– 19 years (53.3% girls) The overall	X	•	ormati ool re
					prevalence of DSP		semester (6	

among	girls	(3.7%)
than bo	ys (2	.7%).

Skedgel Kearney 2016		Response to Intervention Model (Kearney & Graczyk, 2014)	United Stat es	1. Family Courts & Services Center 2. Truancy Diversion Program	118 middle and high school students aged 11-19 years (Mage: 15.10) from a large school district and their parent(s). Youth were mostly female (50.8%) and were Hispanic (73.5%), African-American (10.2%), multiracial (4.3%), Asian-American (3.4%), European American (2.6%), or other (6.0%).		X	Percentage of full school days missed from the current academic year at the time of assessment	Informati school re
Skubak Tillyer &Tillyer 2016	Quant cross- r, sectiona	A General Multilevel Model of Violent Victimization Wilcox, P., Land, K. C., & Hunt, S. A. (2003). Criminal circumstance: A dynamic multicontextu al criminal opportunity theory. New York: Aldine de Gruyter	United Stat es	School	Data collected from 11,070 adolescents (51% female, mean age = 15.04 years) during the firsttwo waves of the National Longitudinal Study of Adolescent to Adult Health were used in this study	X		Whether the participant reported skipping school for one full day without an excuse during the current year	Skipping variable l Halpern, Whitsel, Tabor, J. I Wational Study of Adult He design (V documen http://www.u/project.sign.
Soares e 2019	et al., Quant cross- sectiona	N/A	Brazil	School	282 adolescents aged 12-17 years (57.8% female, Mage: 17 years)	X		At least one full day of school absence without permission of your parents or legal guardians in the past 30 days	Absentee item/mea

Soderman et al., 2019	Quant cross- sectional	N/A	Sweden	Online	1785 adolescent women (Mage: 16.2 years)	>	K			The number of instances of school/work absenteeism in past year	Absented item/mea
Stewart- Tufescu et al., 2022	Quant longitudina l	N/A	Manitoba	School	1002 adolescents aged 14-17 years and one of their parents			X	X	1. Number of days absent in one month 2. Number of suspensions received	Absented item/mea 1. Self-reabsentee 2. Self-resuspensi
Strand et al., 2017	Quant longitudina l (scale developme nt)	Life course developmenta I theories (Cullen, 1994; Farrington, 2003; Laub & Sampson, 2003)Cullen, F. T. (1994). Social support as an organizing concept for criminology: Presidential address to the Academy of Criminal Justice Sciences. Justice Quarterly, 11, 527-559Farrington, D. P. (2003),	Washingto n, United States	School	The participants were adolescents (N = 937, 53% male) between 13 and 17 years of age and attending public school in Washington state. This sample includes only youth for whom a court petition was filed with the state, with the majority filed due to excessive unexcused absenteeism, in accordance with Washington state statutory law (BECCA Bill, 1995, E2SSB 5439). The racialethnic background of the sample was	X				This study includes only those youth for whom a court petition was filed with the state, with the majority filed due to excessive unexcused absenteeism in accordance with Washington state statutory law (BECCA Bill, 1995, E2SSB 5439). The new law requires the school district to file a truancy petition directly with the juvenile court if a juvenile has	The Was Assessm Risks an Students George 6 2015)Ge Coker, E Strand, F McBride Washing Assessm and need WARNS Olympia for Cour Adminis of the Co

and empirical issues-The 2020 Sutherland Award Address. Criminology, 41, 221-225. doi:10.1111/j. 1745-9125.2003.tb0 0987.xLaub, J. H., & Sampson, R. J. (2003). Shared beginnings, divergent lives: Delinquent boys to age 70. Cambridge, MA: Harvard University

Press.

individuals who identified as African American (6%), Native American/Alaskan (7%), and Asian/Pacific Islander (3%).

Studsrod & Bru, 2012 Quant crosssectional

sent Selfdetermination onal theory

Norway, Europe School

The total sample comprised 272 boys and 288 girls

X

Whether a student ever "played truant" Informat school re

1 Truana

		why' of goal pursuits: Human needs and the self-determination of behavior. Psychological Inquiry, 11(4), 227–268.			school in western Norway.		
Tanner-Smith & Fisher, 2016	Quant cross-sectional	Ecological systems theoryBronfen brenner, U. (1979). The ecology of human development: Experiments by nature and design. Cambridge, MA: Harvard University Press.	United States	School	The data for this study came from two large national surveys—the School Crime Supplement to the National Crime Victimization Survey (N = 38,707 students; 51 % male, 77 % White, MAge = 14.72) and the School Survey on Crime and Safety (N = 10,340 schools; average student composition of 50 % male, 57 % White).	X	The number of days the adolescent skipped class in the past month (0–20 days)

1. Truand from the Supplem the Nation

Victimiz (NCVS)2 attendand School S Crime an (SSOCS) Departm (2009). N victimiza school cr suppleme Codeboo [Compute (ICPSR2 Office of Programs Justice P Arbor, M universit for Politi Research [distribut A., Neim L., Hrycz Thomas, Parmer, 1 2007–20 survey or andsafety Survey d for restric file users 308). Wa National Youth Adolesce Educatio

Tanton et al., 2021	Quant longitudina l	N/A	Uganda	School	students at baseline consented/assented. The mean age was 15.4 years (SD 1.31; range 12–20 years). The majority (n=193; 83.2%) were Christian and 93 (42.7%) were of Ganda ethnicity.	X	School attendance was defined as i) attended a full day of school— including if they missed some classes ot ii) attended a full day at school and all classes
Tegegne & Sisay, 2014	Mixed methods	N/A	Ethiopia, Africa	School	The quantitative study was conducted among 595 randomly selected adolescent school girls. Nine in-depth interviews with five school-dropout girls and four female teachers, and four focus group discussions among school girls were conducted. The girls were in grades 7-8 and were aged 10 to 19 years.	X	Any occurrence of missing school related to menstruation

Absentee

item/mea

Qualitati and focus

Thomas & Hennum, 2019	Qualitative	The regime of discipline Foucault (1977)Foucau It M (1977) Discipline and Punish: The Birth of the Prison. New York: Penguin.	Norway, Europe	School	Attendance-related data for 38 high schools from the Oslo Municipality website was obtained (itotal of 18,678 students). The qualitative interview portion of this study includes a sample of 21 students in a single class from one high school.	X	The number of days students were absent from school in one academic year	1. Infor school Qualita intervie observa

Thompson et al., 2020	Quant cross- sectional	Developmenta l cascades theory	United Stat es	School
		Patterson, G. R., DeBaryshe, B. D., & Ramsey, E. (1989). A developmenta l perspective on antisocial behavior. American Psychological Association, 44(2), 329.		

Participants (49.8% female) came from eight public high schools in a Midwestern state (n=5262) with students in grades 9 (n=1580; 30%), 10 (n=1382, 26%), 11 (n=1258, 24%), and 12 (n=1042, 20%). Seventythree percent of the students identifed as White, 13% as Black, 5% as Asian, 5% as Latinx, and 5% as some other race or two or more races.

X

The number of in-school and out-of-school suspensions in the spring school semester

Informat school re

	Toren et al.,	cross-		aged 14-18 years (Mage: 15.6 years old, 47% female,	X	X	absent in the past four week either due to sickness or	item/me
et al., 2013 cross-sectional States from the to 7 unexcused States from the Washington State Absences in a Juvenile Court Pre-secret Assessment (WSJCPA) validation study were used (Barnoski, 2004). The sample consisted of 21,810 American		cross-	n, United court	secondary data from the Washington State Juvenile Court Pre- Screen Assessment (WSJCPA) validation study were used (Barnoski, 2004). The sample consisted of 21,810 American juveniles, aged 12	X		petition is equation to 7 unexcused absences in a month or 10 in	Screen A (WSJCF

committed a sexual or violent felony offense were selected from this data set. The sexual offenses included both sexual offenses against a child who was at least 5 years younger than the offender and sexual offenses against a person of similar age or an adult person. The following research groups were selected: All female adolescents who had committed a felony sexual offense (n = 40)b) All boys who had committed a felony sexual offense (n = 743)c) All girls who had committed a violent offense other than a sexual offense (n = 533)

For this study, van der Put, Quant N/A United Stat Juvenile secondary data 2013 crosses court sectional from the Washington State Juvenile Court Pre-Screen Assessment (WSJCPA) validation study were used (Barnoski, 2004). This dataset consisted of 21,810 American adolescents, aged 12–18, who appeared before the courts for a criminal act and for whom the

X X

1. Having ever missed a full day of school (unexcused) or having received a truancy petition or equivalent2. Having ever received an outof-school suspension, having ever been expelled, or having ever dropped out from school

1. Truand

Suspensi

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(2004). *A* for re-off

Validatir

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juvenile (

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Institute

Policy.

a sexual offense were selected from this dataset. (a) MSOs: all female adolescents whose most serious sexual offense was a misdemeanour offense (n = 31). Misdemeanour offenses include the following offenses: public indecency or indecent exposure, obscene phone calls, obscenity or pornography.(b) PSOs: all female adolescents who committed a felony offense in which the victim was less than five years younger orolder than the offender (n = 15).(c) CSOs: all female adolescents who committed a sexual offense against a child who was at least five years younger thanthe offender (n = 25). These offenses include child molestation

and child rape.

Vanneste, Mathijssen, et al., 2016	Quant longitudina 1	N/A	Netherland s, Europe	School	In school year 2011–2012, the Medical Advice for Sick-reported Students (MASS) intervention had been applied by seven out of all 21 schools for pre- vocational secondary education in the Netherlands. These seven schools were asked to participate in the study as an intervention school. In 2014, within the group of the 14 remaining schools, seven schools were asked to participate in the study as a control school, by providing anonymised absence data of their students retrospectively. The intervention group consisted of students who were attending one of the intervention schools, had been identified by the school as having extensive medical absence according to the MASS- criteria, and had been referred to a youth health care physician during school year 2011— 2012. The control group consisted of students who were attending one of
					intervention school. In 2014, within the group of the 14 remaining schools, seven schools were asked to participate in the study as a control school, by providing anonymised absence data of
					retrospectively. The intervention group consisted of students who were attending one of the intervention schools, had been identified by the school as having extensive medical
					to the MASS-criteria, and had been referred to a youth health care physician during school year 2011–2012. The control group consisted of students who were

Students having extensive medical absence as identified by intervention criteria (i.e., reported sick four times in 12 school weeks or more than six consecutive school days)

X

The num periods a days repo during th weeks pr

measurer

Informat

according to the MASS criteria. The intervention group consisted of 493 students (12 % of the total school population of 4159 students) and the control group consisted of 445 students (14 % of the total school population 3153 students). The total study group, including both intervention and control groups, consisted of 938 students, of whom 40% were male and 60% female.

Vanneste, van de Loo, et al., 2016 Qualitative N/A Netherland School

ol 17 principals and special education needs coordinators

working in nine secondary schools in the Netherlands X

Students having extensive medical absence (i.e., reported sick four times in 12 school weeks or more than six consecutive school days)

Qualitati

Vardanian	Quant	N/A	Denmark	1. Family	687 families	X
et al., 2019	longitudina			home		
	1			2.		
				Communit		
				y center		

Having skipped school at least once in the past month

Absented item/mea

Vaughan et al., 2016	Quant cross- sectional	N/A	United Stat	Family home	3000 Hispanic or Latino youth (50.7% male) in grades 7–12 from Wave I in-home interviews of the National Longitudinal Study of Adolescent Health (Add Health; Harris et al., 2009).	X	
Vaughn et al., 2013	Quant cross- sectional	Developmenta l-ecological framework (no citation provided)	United Stat	Household	18,819 youth aged 12–17 years. The mean age of the study sample is 14.6 years old. The respondents are evenly distributed between males (51.0%) and females (49.0%) but are unevenly distributed in terms of race/ethnicity.	X	
Veliz & Shakib, 2012	Quant longitudina l	Social Control Theory (Hirschi,	United Stat	School	50 American high schools were surveyed in 2003-		X

1969)

2004 and 2005-

2006

The number of times a participant skipped a whole day of school without an excuse.

The number of days they missed school from skipping in the past 30 days

2009 Nat on Drug Health (1

Substanc

Absentee

item/mea

Mental H Administ of Applie (2009). F the 2008 survey or health: N findings. MD: Sub and Men

Services Administ

Suspensi suspended outobtained of-school for 5 Survey o or more days Safety (S

Being

https://no eys/ssocs

Vellos & **Qualitative** Sociocultural Vadeboncoe perspective to ur, 2015 absenteeismG utierréz, K. D. 2002. "Studying Cultural Practices in Urban Learning Communities. " Human Development 45: 312-321.Lave, J., and E. Wenger. 1991. Situated Learning: Legitimate Peripheral Participation. Cambridge: Cambridge University Press.

British School Columbia, Canada

A sample of students from Mountain High, a small senior high school alternative programme situated on a different site than the mainstream high school to which it was attached. It was designed for grade 11-12 students (16-19 years of age).

X

Many of the students in this alternative programme had been referred to the programme after not meeting attendance requirements at their mainstream high schools. According to the attendance policy for Mountain High (1995), truancy was defined as absence from class(es) without reason or permission, leaving campus without checking out. Number of truancy offenses were cumulative each semester. Accumulating a certain number of truancy offenses had consequence. For example, a first offense (1-3 truancies) resulted in having a teacher meet with a student to review expectations and assign a classroom consequence; also, the teacher contacts parents.

Field obs

Walter et Quantitativ N/A e longitudina l

Germany, School Europe

.

147 anxious-depressed adolescents with chronic school absenteeism were recruited from the inpatient unit of the Department for Child and Adolescent

X

Psychiatry and Psychotherapy at the University of

Cologne. 84 boys (57.1%) and 63

girls (42.9%)

participants had to have least 14 days without school attendance or at least 50 skipped classes in the last school report. In terms of outcome measure, discontinuous school attendance was

To be eligible Absentee for the study, item/mea

missed) in the past two weeks

Walter et al., 2014	Quant longitudina l	N/A	Germany, Europe	1. Outpatient unit of the Department of Child and Adolescent Psychiatry 2. Local private	Of the 36 study participants who completed inpatient treatment and were analyzed, 21 were boys and 15 were girls aged from 13 to 18 years (M = 15.1; SD = 1.3).
				practices	

Participants had to have stopped attending school (at least 14 days without school attendance) or had to have at least 50 skipped classes on the last school report (covering the preceding 6 months) to be considered chronically absent

Absentee

item/mea

X

Walter et al., 2017	Quant (scale developme nt)	N/A	Germany, Europe	Inpatient/o utpatient facilities	Participants were recruited at nine inpatient or outpatient facilities across Germany that specialize in treating adolescents with school absenteeism. The sample consisted of 62 adolescents (56.5% girls) aged 11 to 17 years (M = 14.7 years). Most were German (n = 57, 91.8%), 36 (58.0%) had already repeated one grade due to school absenting behavior, and 34 (54.8%) were	X
					living in a single	

parent household.

Participants were included in Assessment the study if they had missed at least 10 days at school during the previous 3 months without any somatic reason

School R (SRAS) version

Walter et al., 2022	

Quantitativ

longitudina

Interdisciplina ry model of school absenteeismK earney, C.A. (2008). An interdisciplina ry model of school absenteeism in youth to inform professional practice and public policy. Educational Psychology Review, 20, 257-28

Germany, School Europe 49 adolescents aged between 11 and 18 years with clinically-relevant school absenteeism behavior. Out of the total of 49 participants, n = 27 (55.1 %) were female. The participants' mean age was M = 14.20 years (SD = 1.99).

X

If a patient had missed less than 2.5 days (25 %) of school within the last 2 weeks or less than 11 days (15 %) within the last 15 weeks before the start of therapy, this was considered to be mild school absenteeism

1 Inform school re Establish scale/que ool atten (informa collected of source school re Teacher (TRF), th Behavior (CBCL), Self Rep Doepfner J., Kinne Arbeitgr Child Be Checklis Manual o Schulalte Child Be Checklis M. Ache Elternfra das Verh Kindern Jugendlie

> (CBCL/6 Lehrerfra das Verh Kindern

Child Be Checklis aged chil adolesce M. Ache Behavior (CBCL/6 Teacher 1 (TRF/6-1 Self-Rep 18R)]. H Doepfner J., Kinne Arbeitsg Deutsche Behavior (2014). N deutsche Formen o Behavior Thomas Achenba Elternfra das Verh Kindern Jugendlie (CBCL/6 Lehrerfra das Verh Kindern Jugendlie 18R), Fra Jugendlie 18R) [Ma German Child Be Checklis aged chil adolesce M. Ache Behavior (CBCL/6 Teacher (TRF/6-1 Self Rep 18R)]. H 1. Qualit

Wambugu Qualitative Classical Kenya, School The participants & Mokoena, 2016

Boyd W

(1956) Fmile Renya, School The participants were students who returned to school after they had raised money for

participants X
e students who
rned to school
r they had

The number of days that a student missed school after being sent home

2. Absen

variable

committee and	the
nead teacher	

Watts et al., 2018	Quant longitudina l	Social Bonding Theory (Hirschi, 1969)	Tennessee	School	10541 American adolescents (first recruited during the 1994-1995 school year while they were in Grades 7 to 12) aged 11 to 23 (Mage: 16.15 years). 53% of participants are White, 21% Black, and 16% Hispanic.		X	Having ever received an out- of-school suspension
Weiler et al., 2019	Quant longitudina l	Rhodes' model of youth mentoring Rhodes J, Spencer R, Keller TE, Liang B, & Noam G (2006). A model for the influence of mentoring relationships on youth development. Journal of Community Psychology, 34, 691–707. doi:10.1002/jc op.20124	United Stat es	School	The current sample consisted of adolescents and their mentors who participated in a previously published evaluation of a preventive intervention for high-risk youth known as Campus Connections (Weiler, Haddock, Henry, Zimmerman, Krafchick, & Youngblade, 2015). Of the 204 adolescents with complete mentor-report data, 54.5% were male and were 11 to 18 years old (M =14.9). Over half of youth	X		The number of unexcused absences in the past month

Absentee item/mea

Absentee item/mea

American Indian or Alaskan Native, 2.0% as Black or African American, 1.5% as Native Hawaiian or other Pacific Islander, and 7% as other. Mentors (n = 204)were undergraduate university students who were selected after an application process, which included passing abackground check, specifying reasons for becoming a mentor, and previous coursework or experience relevant to working with youth.

Welch & Payne, 2012	Quant longitudina l	Racial Threat (Blalock, 1967)	United Stat es	School	The National Study of Delinquency Prevention in Schools (Gottfredson et al., 2000) is the source	X	1. Expulsion (exclusion of students for over 30 days)2. Suspension (exclusion of	Absentee item/mea Principal Question on, G. D. D. C., Cz
					for our study's data. The final analytic sample in this study includes 294 public, nonalternative middle and high schools.		students for 30 days or less)3. In-school suspension (brief exclusion of students from attendance in regular classes).	Cantor, I B., & Ha (2000). A study of opreventic Final rep City, MD

Welch et al., 2022

Quant longitudina Cumulative Disadvantage Framework (Sampson & Laub, 1997)

United Stat School

es

A sub-sample of 14,484 individuals enrolled in 129 schools were drawn from the Add

Health longitudinal study. Add Health is a multi-wave

nationally representative

survey of youth in the United States

conducted by the

University of North Carolina

Population Center.

Wave I of the Add

Health data was collected during the

1994–1995 school year among

X

Having ever been suspended or expelled from school

Absentee item/mea 145 middle and high schools.

Widdowson et al., 2021	Quant cross- sectional	1. Labeling Theory2. Routine Activity TheorySamps on, R. J., & Laub, J. H. (1997). A lifecourse theory of cumulative disadvantage and the stability of delinquency. Developmenta 1 Theories of Crime and Delinquency, 7, 133–161Cohen, L. E., & Felson, M. (1979). Social change and crime rate trends: A routine activity approach. American Sociological Review, 44(4), 588–608.	United States	Household	The data for this study came from waves 1 to 8 of the National Longitudinal Survey of Youth 1997 Cohort (NLSY97). The current study uses data from all 7628 respondents between 12 and 19 years (49.6% male).

X

Whether or not a student had been suspended from school 1. School variable school su variable

Wilkerson et al., 2016	Quant cross- sectional	Raywid's (1994) conceptualizat ion of three types of alternative schools Raywid, M. A. (1994). Alternative schools: The state of the art. Educational Leadership, 52, 26–31.	United Stat es	School	A total of 5863 students in grades 9-12 were included in the sample. 5031 of them attended traditional schools (50.2% male, 63.8% African American, 18.1% Hispanic, 10.9% White, 6.5% Asian) and 832 attended alternative remediation schools (52.3% male, 73.7% African American, 19.7% Hispanic, 5.8% White, 0.6%
					19.7% Hispanic, 5.8% White, 0.6% Asian)

X

The number of suspensions received in one academic year across all students within a school

Informat school re

1. Attend variable 2. Susper variable

Wilkie, 2012	Qualitative	N/A	Australia	School	22 participants, consisting of senior secondary students and their mathematics teachers, participated in the	X
					participated in the study	

The types of chronic illness experienced by students in the study included cancer, anorexia nervosa, conversion disorder, renal failure, multiple sclerosis and cochlear implant complications. Most students experienced prolonged absence from school ranging from 6 months to a year, often followed by months of intermittent absence.

A combi

questions notes and and quali

interview

Williford et al., 2020	Quant longitudina l	1. Ecological Systems Theory (Bronfenbren ner, 1977, 1979) 2. Social Development Model (Catalano & Hawkins, 1996; Catalano et	United Stat es	School	272 youth (51.8% male) aged 13-18 years (Mage: 15.59 years)
		al., 2004)			

X

The number of days a student was absent in one academic Informat school re

semester

Wolf & Kupchik, 2016	Quant longitudina l	N/A	United Stat es	School	The study's population consisted of a subset of individuals from the National Adolescent Health public data set. The National Longitudinal Study of Adolescent to Adult Health (Add Health) is a longitudinal study of a nationally representative sample of over 20,000 adolescents who were in grades 7-12 during the 1994-95 school year, and have been followed for five waves to date, most recently in 2016-18. The study sample consisted of 9612 students for which attendance data was available.	X		Whether the respondent had ever been suspended by the wave 1 interview	Suspension from Nation of Adoles (ADHeal 2015) AD nal Surve Adolesce 2015, Rewww.cpccts/addhe
Wooldridge, 2017	Quant longitudina l	N/A	Maryland	School	222 students in 8th grade across 6 middle schools with AVID	X	X	Number of suspensions received	Informati school re 1. Attend 2. Susper

programs.

Wormington et al., 2014	Quant cross-sectional	N/A	California, United States	School	2,808 middle school (Mage= 13.5 years) and 6,821 high school students (Mage= 15.8 years). Both samples were fairly gender balanced (middle school sample: 51.4% girls; high school sample: 48.5% girls). The middle school sample was primarily White (64.8%) but also identified as Black/African American (3.3%), Hispanic/Latino (16.4%), Asian American (19.2%), Native Hawaiian/Pacific Islander (3.1%), American Indian/Alaskan Native (4.6%), or another racial or ethnic group (16.4%). Most students in the high school sample self-identified as White (63.9%), but also included a sizable portion of students who identified as Hispanic/Latino (11.0%) and Asian or Pacific Islander (16.1%). Smaller groups of students identified themselves as Black or African American (3.8%), American Indian/Native American (3.1%), or other.	X

The number of times a student had missed school in the past 12 months Californi Kids Sur middle a versions Ed, 2009

WestEd.

Californi Kids Sur Main rep Francisco Health ar Developi for the Ca Department Education

Yang & Ham, 2017	Quant cross-sectional	Socioecological perspectives of children's well-being Bronfenbrenn er, U. (1986). Ecology of the family as a context for human development: Research perspectives. Developmenta 1 Psychology, 22(6), 723–742.Earls, F., & Carlson, M. (2001). The social ecology of child health and well-being. Annual Review of Public Health, 22, 43–66. Garcia-Coll, C., & Szalacha, L. A. (2004). The multiple contexts of middle childhood. Children of Immigrant Families, 14(2), 81–97	AustraliaE uropeCana da AsiaUnited States	School	A large-scale dataset containing information on 205,512 children in 9,141 schools	X		The number of times students skipped days of school without authorization during the past two weeks	Absentee item/mea
Yu et al., 2017	Quant cross- sectional	N/A	Washingto n	School	5929 Latino/Hispanic middle and high school students in grades 6-12		X	Number of days absent from school in past 30 days	Absentee item/mea

1. I administered a survey to 133 students to gather data on school attendance, and mobile phone access and usage. 2. I then held siz focus group discussions with four to six girls in each. The ages of girls who took part in the study ranged from 13 to 20, and girls from each level of secondary school (grades 9-12 for those familiar with the K–12 system) 3. Finally, I conducted semistructured interviews with 12 school community members, including students, teachers, parents, and the principal. In the interviews, I asked about the NDSS learners' afterschool activities, and their views on use of mobile phones to support education and learning during outside-of-school

hours.

Zelezny-

Green, 2014

Mixed

methods

N/A

Africa

School

Number of school days missed per month

X

Informat school re

Zendegui et	Quant	N/A	New York,	Hospital	Participants were	X
al., 2021	longitudina		United	-	110 youth ages 13	
	l (scale		States		to 18 years (M =	
	developme				15.41 years)	
	nt)				admitted to an	
	,				adolescent partial	
					hospitalization	

110 youth ages 13 to 18 years (M = 15.41 years) admitted to an adolescent partial hospitalization program. The majority of participants identified as female (57.3%), Caucasian (59.1%), and non-Latino (70.0%).

Having ever missed school due to mental health issues School In Question (SIQ)Rol Bennett, P., Zendo Chiu, A. description refusal be adolesced acute car [Manusc preparati Department Psychiatri Cornell Manusc Co

Zhang, 2018 Quant N/A longitudina

Virginia, School United States 238 middle and high schools were the units of analysis

X

Number of outof-school suspensions over the course of three school years Informat school re

Zusevics et al., 2013	

Quant A
longitudina constructivist
model of
teaching and
learning
(Thomas,
2000; Thomas
and
Mergendoller,
1999)

Wisconsin, School United States Four teachers (two male and two female participants) participated in interviews. All four teachers were white and averaged 10-15 years of health teaching experience. Eight public school students also participated in the focus groups.

X

The number of days students were absent from school in one semester Attendan