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# Our Early Years of Life's Effects on our Future Health and Well-Being

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https://doi.org/10.33015/dominican.edu/2022.NURS.ST.22

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#### **Recommended Citation**

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https://doi.org/10.33015/dominican.edu/2022.NURS.ST.22

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## Our Early Years of Life's Effects on our Future Health and Well-Being

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NURS 4500: Nursing Research and Senior Thesis

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May 2022

#### Abstract

Many poor health outcomes later into adulthood have been triggered by adverse life events that have occurred during childhood. Most of the general population has experienced some sort of adverse childhood event that has negatively impacted their future health. Adverse childhood events include any traumatic event that has occurred during childhood including maltreatment (sexual abuse, mental abuse, and physical abuse), neglect, parental loss, and peer victimization.

Raising awareness regarding the opportunities to intervene in a child's life as a means to prevent behavioral, psychological, and substance abuse disorders before they would typically manifest on their own is the ultimate goal. As health care providers, it is imperative that the nursing profession offer profound resources to those affected by childhood trauma and be able to identify and intervene as early and as appropriately as possible with proper education and resources.

Based on a thorough literature review it is found that adverse childhood events can cause a variety of different health outcomes into adulthood. Some of these health outcomes in adulthood include mental illness (anxiety, depression, post-traumatic stress disorder, etc.), cardiovascular alterations (stroke and coronary artery disease), and drug abuse. The more adverse childhood events that occurred in a person's life, the more prevalence there was for poor diet, daily smoking, and heavier alcohol consumption. However, these negative outcomes decreased when there was a supportive adult present to consult with. With early and proper identification and intervention poorer health outcomes in adulthood can be avoided.

Adverse childhood experiences negatively impact the mental and physical health of an individual throughout their life. In order to mitigate this impact, education and intervention is required.

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#### **Problem Statement**

Many poor health outcomes later in adulthood can be triggered by adverse life events that have occurred during childhood. It is estimated that a third of the general population may be affected by adverse childhood events (ACEs) including trauma (Varese et al., 2012). Research has shown that "ACEs have a dose-response relationship with many health outcomes, including heart rate responses to stress and chronic health conditions such as coronary heart disease and stroke. In addition, ACEs are significantly associated with depression, insufficient sleep, and diabetes" (Chang et al., 2019). There are a growing number of studies that have examined child maltreatment (e.g., sexual abuse, physical abuse, emotional/psychological abuse, and neglect), peer victimization, and parental loss and separation as risk factors for psychosis and schizophrenia (Varese et al., 2012). According to current research, parenting approaches and ACEs are thought to be major causes of substance abuse initiation in addition to the various other effects. The National Institute on Drug Abuse says that substance use typically begins during adolescence in which "there are known biological, psychological, social, and environmental factors that contribute to the risk that begin accumulating as early as the prenatal period" (Mirlashari et al., 2020). Based upon this knowledge it is evident that there are opportunities to intervene early in an individual's life as a means to prevent behavioral, psychological, and substance abuse disorders long before they would typically manifest on their own (Mirlashari et al., 2020). As health care providers, it is imperative that the nursing profession offer profound resources to those affected by childhood trauma and be able to identify and intervene as early and as appropriately as possible with proper education and resources.

## **Research Questions**

What type of life events in childhood can cause the most severe health problems in adulthood?

What interventions in childhood can be implemented by nurses to help with early identification and prevention of potentially harmful outcomes later in life?

What interventions can be implemented by nurses to help with successful coping for those who experience childhood trauma or other negative life events?

#### **Literature Review**

#### Introduction

The purpose of this literature review is to explore previous research that has been conducted pertaining to the topic. When going through prior experimentation it is important to carefully identify where areas of improvement can occur while becoming educated on important background information on the topic of concern. The objective is to critique this research in an effort to formulate new research with minimal inadequacies. This literature review will address the following questions: 1) What type of life events in childhood can cause the most severe health problems in adulthood?, 2) What interventions in childhood can be implemented by nurses to help with early identification and prevention of potentially harmful outcomes later in life?, and 3) What interventions can be implemented by nurses to help with successful coping for those who experience childhood trauma or other negative life events? (See Appendix A)

### **Search Strategy**

The literature review is composed of six research studies from Dominican University Library and National Library of Medicine. The keywords used to discover these articles were 'childhood trauma', 'addiction', 'health outcomes', 'patient education', 'stressors', 'coping', 'mental health', and many others. These seven articles were chosen based on how relevant they were to the subject of interest. The articles that will be discussed in the review can be further broken down into three categories: adverse childhood experiences, associated long term health outcomes, and early identification and impactful interventions. Some studies may fall in one or more categories; therefore, they were placed into the category in which was most logical based upon their review.

### **Category one: Adverse Childhood Experiences**

Research composed by Varese et al. and Corso et. al., were grouped together under Adverse Childhood Experiences because they both discuss in detail the different types of trauma and experiences that can occur during childhood. They also identify the most prevalent childhood trauma and stressors that can ultimately lead to poorer health outcomes into adulthood.

Article 1: Health-Related Quality of Life Among Adults Who Experiences Maltreatment During Childhood

This article discusses the differences between the health of adults who reported childhood maltreatment and those who reported no maltreatment as a child. It explores the different type of childhood trauma and their associated effects later on into adulthood. Childhood maltreatment is defined as "any act or series of acts of commission or omission by a parent or other caregiver, in the context of a relationship of responsibility, trust, or power, that results in harm, potential for harm, or threat of harm to a child's health, survival, development, or dignity" (Corso et. al.,2008).

The researchers gathered data from 2,812 adults who reported experiencing maltreatment at one point or another during their childhood and compared it to 3,356 people who claimed to never experience childhood maltreatment. Conducting a quantitative study allowed the researchers to use a 36-Item Short Form Health Survey to evaluate the various types of traumas experienced during the first 18 years of life called the Medical Outcome Survey. There were five categories of childhood maltreatment that were investigated: physical abuse, sexual abuse, emotional abuse, physical neglect, and emotional neglect. They also dedicated another five categories of questions to explore other adverse experiences during childhood: household

member in prison, household substance abuse, violent treatment of mother, household mental illness, and parental separation or divorce.

In addition to the type of childhood maltreatment that the person experienced the researchers also investigated how often it was inflicted upon them. The data revealed that approximately 26% of the participants experienced physical abuse, 21% experienced sexual abuse, 14% sustained emotional neglect, 10% emotional abuse, and 9% physical neglect. The article discovered that "Physical abuse, sexual abuse, and emotional neglect alone significantly reduced health related quality of life per year by 0.015, 0.016, and 0.026 quality-adjusted life years (QALYs), respectively; emotional abuse or physical neglect alone did not" (Corso et. al., 2008).

Article 2: Childhood Adversities Increase the Risk of Psychosis: A Meta-analysis of Patient-Control, Prospective- and Cross-sectional Cohort Studies

This study aimed to examine the association between childhood adversities and trauma to psychosis outcomes. The measure of childhood adversity and trauma were only considered eligible if they occurred before the age of 18 and was assessed at the individual level. It is estimated that nearly one-third of the general population may be affected by an adverse childhood event. The analysists identified child maltreatment as any sexual abuse, physical abuse, emotional/psychological abuse, and neglect. Maltreatment during childhood, peer victimization (e.g., bullying), and experiences of parental loss and separation were all identified as risk factors for various psychiatric disorders.

The types of traumas that were noted were "childhood sexual abuse (sexual acts toward a child, including intercourse, touching, etc.), childhood physical abuse (violent acts leading to

physical injury or harm, such as harsh physical punishment), childhood emotional abuse (exposure to behavior that might result in trauma, such as harshness, name calling by parents during childhood), childhood physical neglect (failure of those who are responsible for physical care to provide this care during childhood, e.g., by failing to provide food or clothes), childhood emotional neglect (failure of those who are responsible to provide emotional care during childhood, e.g., by being unresponsive to a child's emotional needs), and bullying (an act of repetitively aggressive behavior by a peer with the intention to hurt the child, such as physical assault or intimidation or repeated name calling)" (Varese et. al., 2012). In addition to these types of maltreatment, parental loss or separation was described as the death of one parent before the child turned 18 years of age.

The analysis revealed that specific traumas, with the exception of parental death, were related to the increased risk of psychosis. "The findings imply that exposure to adverse childhood events should be regarded as an important determinant of psychotic disorders" (Varese et. al., 2012). However, adversity is a heterogeneous concept which includes types of exposures that were not considered in this analysis. Childhood medical illness, exposure to war, natural disasters, and parental separation are other traumas that can further be investigated as creating negative health outcomes for one's future overall health and well-being.

#### **Category two: Associated Long Term Health Outcomes**

This category was created to discuss the different long term health outcomes associated with Adverse Childhood Experiences. Studies composed by Chang et. al., Sonu et. al., and Deschênes et. al. explain many of negative health outcomes that can be triggered by experiencing trauma and maltreatment during childhood. It is important to note that these health outcomes in

adulthood can precipitate by many other different experiences, yet childhood trauma is only a single risk factor for each of the following health outcomes that will be described in this section.

Article 1: Adverse Childhood Experiences and the Risk of Coronary Heart Disease in Adulthood: Examining Potential Psychological, Biological, and Behavioral Mediators in the Whitehall II Cohort Study

This prospective cohort study aimed to investigate the potential psychological, biological, and behavioral mediators and their association between adverse childhood experiences (ACEs) and the risk of coronary heart disease (CHD) in adulthood (Deschênes et. al., 2021). Since CHD is the leading cause of death world-wide the researcher's goal was to determine modifiable risk factors for this disease in an effort to prevent them if at all possible.

"Parental abuse and neglect, witnessing or experiencing violence in the household, parental substance abuse, household dysfunction, and being separated from parents," have all been shown to increase the risk for CHD in adulthood (Deschênes et. al., 2021). The study also explains that even just observing such traumatic events increases the risk of poor health outcomes in adulthood in a dose-response manner. ACE's have been linked to increasing the likelihood of developing depression and anxiety which have also been identified as potentially modifiable/treatable risk factors to CHD. In addition to mental health disorders, ACE's increase the propensity for smoking, excessive alcohol use, and physical inactivity. These negative coping behaviors in turn are risk factors for CHD. The study also discusses cardiometabolic dysregulations such as "fasting glucose, triglyceride, cholesterol, and blood pressure levels," which are important factors causing CHD (Deschênes et. al., 2021).

The study interviewed 10,308 British civil servants between the ages 35 and 55 years in 1985. Every two to three years data was collected by alternating between clinical examination

and questionnaire survey. The survey questions were intended to identify any ACEs before the age of 16. Each positive response was added together to determine the ACE score for each individual. There was a 30 question General Health Questionnaire which was used to assess symptoms of anxiety and depression. Cardiometabolic dysregulations were assessed clinically to determine glucose levels, triglycerides levels, cholesterol, and blood pressure readings. The data was then organized and reviewed to determine correlation between ACEs and CHD.

The study found that "each single ACE increase was associated with 9% higher odds of CHD" (Deschênes et. al., 2021). "Overall, retrospectively reported ACEs were associated with higher levels of depression and anxiety symptoms, alcohol dependence, and smoking. Higher levels of depression and anxiety symptoms, as well as smoking and a greater number of cardiometabolic dysregulations, were associated with incident CHD" (Deschênes et. al., 2021). During sensitive developmental periods such as childhood and adolescence, stressors such as ACEs can induce important biological changes that might create potential long-term consequences for health. Although some "biological responses to childhood stress may be adaptive in the short term...the long-term and cumulative impact of several ACEs may lead to chronic dysregulations in allostatic systems such as endocrine, metabolic, immune, and nervous systems, producing a greater physiological 'wear and tears,' which in turn can impact mental and physical health" (Deschênes et. al., 2021). Therefore, there must be increased efforts in minimizing the exposure to ACEs in the pediatric populations.

Article 2: Adverse Childhood Experiences and the Onset of Chronic Disease in Young Adulthood

This study analyzed data from the 2011 to 2012 Behavioral Risk Factor Surveillance

System (BRFSS). There were 86,968 respondents that represented nine different state

populations. The purpose of this study was to examine the association of adverse childhood experiences (ACEs) with early-onset chronic conditions such as depression, poor mental and physical health, and chronic disease. "Subsequent reports, in addition to the original ACEs Study, found that a higher burden of ACEs was associated with a higher risk of many adverse health, behavioral, psychological, and social outcomes, including smoking, heavy alcohol consumption, substance use, high-risk sexual behavior, mental health problems (depression, anxiety, suicidality, hallucinations), and chronic disease (ischemic heart disease, cancer, lung disease, diabetes, chronic headaches, HIV, liver disease, and autoimmune disorders)" (Sonu et. al., 2019).

Data was organized into three different groups based upon age: 18-34, 35-54, and greater than 55 years old at the time of the interview. Questions were framed to identify physical, emotional, and sexual abuse; substance use, mental illness, or incarceration of a household member; domestic violence, and parental separation. Each ACE that was experienced by a participant was tallied to determine the number of ACEs one dealt with during childhood.

"Childhood adversity contributes to chronic conditions and disability via two interrelated pathways: (1) dysregulation of centrally mediated stress-response processes, potentially leading to a state of persistent low-grade inflammation; and (2) promoting behaviors such as impulsivity, poor social ties, and future discounting, which stem from structural and neurodevelopmental changes in the brain and in turn promote adoption of health-risk behaviors" (Sonu et. al., 2012). Repetitive exposure to stressors during such a critical period of development produces a wear and tear effect on the body and increases the risk for a number of future chronic conditions.

The study found that the more ACEs experienced the more likely the individual would develop multiple chronic conditions in adulthood. "Chronic diseases are well-known to decrease

quality of life in several ways, including: additional complications or comorbidities that arise over time (e.g. congestive heart failure from prolonged history of hypertension); disabilities and physical activity limitations that impact other domains beyond health (e.g. employment, leisurely activities); and the plethora of economic costs associated with management of chronic conditions (e.g. medications, procedures, physician or hospital visits)" (Sonu et. al., 2012). Based on the information presented, health care systems and providers should consider expanding their services, adopting trauma-informed practice, and engaging in collaboration for mitigating the long-term effects of childhood adversity.

Article 3: Associations Between Adverse Childhood Experiences and Health Outcomes in Adults

Aged 18-59 years

This cross-sectional study examined the relationship between ACEs and health-related behaviors, chronic diseases, and mental health in 1,501 adults in China using an ACE International Questionnaire (ACE-IQ). The ACEs that were investigated included psychological, physical, and sexual forms of abuse, as well as household dysfunction. The study was performed on adults 18-59 years of age.

Complete demographic information was recorded for each survey participant to compose more accurate data. ACE scores were recorded based on the answers for each question asked during the interview. The questions were categorized according to the type of trauma that was encountered before the age of 18. Areas of investigation included abuse (physical, emotional, and sexual), neglect, family dysfunction, peer violence, witnessing community violence, and exposure to violence. Alcohol use and substance use was also explored to determine the habits that may have developed based upon the various experiences that took place in childhood.

The study found that individuals who reported emotional abuse during childhood had an increased risk of depression and PTSD in adulthood compared to those who did not suffer from emotional abuse. "Physical abuse during childhood was significantly related to adult smoking, chronic disease, and poor mental health. Domestic violence, community violence, and sexual abuse during childhood was significantly associated with an increased risk of PTSD in adulthood, which is consisted with previous studies. Abuse and neglect have a deleterious impact on the emergent attachment system and can lead to emotional dysregulation and an increase in cortisol levels" (Chang et. al., 2019). It was also evident that being bullied, family drug use, and physical abuse impacted the prevalence of chronic disease in adulthood. Based on the information provided by the participants different ACE components had a different long-term effect on the future health and well-being.

## **Category three: Early Identification and Impactful Interventions**

This category was created to discuss the impactful interventions utilized to help manage the effects of trauma and maltreatment during childhood. Mirlashari et. al. and Bellis et. al. examine possible interventions that many be beneficial when implemented at an early age to avoid the negative effects of the experienced trauma.

Article 1: Addiction, Childhood Experiences and Nurse's Role in Prevention: A Qualitative Study

This study investigates the nurse's role in the prevention of childhood substance abuse. This qualitative study conducted in-depth interviews with both young men and women who are currently in treatment for addiction or who are actively using drugs. In addition, nurses and family members were also interviewed to discover their point of views on the issue at hand.

Substance abuse and addiction are preventable disorders that interfere with normal functioning and contribute to health problems that could be otherwise avoided. "The transition period from mid to late adolescence into early adulthood is identified as a high-risk period for drug use" (Mirlashari et. al., 2020).

There are reports that identify genetic and social factors, family relationships and poor parenting practices as etiological reasons that contribute to initiation of drug use. "While substance use generally begins during the adolescent years, there are known biological, psychological, social and environment factors that contribute to the risk that begin accumulating as early as the prenatal period" (Mirlashari et. al., 2020). With that being said, it is evident that there are many opportunities to intervene in a child's life to prevent substance abuse disorders and behavioral problems before they may normally manifest.

Face to face interviews were conducted to properly gather important data given by the interviewee for identification of effective interventions to substance use and addiction. The participants that were chosen for this study were men and women 18-35 years of age. It is apparent that drug addiction does not occur overnight, therefore, it was important for the researchers to initiate conversation about their childhood experiences, relationships with their families, and their knowledge and experience with using drugs. Moreover, the participants were encouraged to talk about their experiences with preventative health programs and training programs that they undertook during childhood regarding drugs. Nurses were asked about their experience on prevention of drug addiction for the childhood population.

The study found that traumatic events during childhood was a similar experience for the majority of the participants that kickstarted their problem with drug addiction. These traumatic events included physical, sexual, emotional abuse, exposure to parental violence in early

childhood, and other family breakdown or parental addiction. Inappropriate parenting approaches was another major theme identified during the interviews. Many of the participants explained that their parents had high expectations for them during childhood which were not realistic to achieve and ultimately put immense pressure on the individual during a crucial developmental period of their life. It was also found that inappropriate punishment, lack of available information about drug use and a lack of understanding between parents and children were also common stressors leading to drug abuse. Furthermore, the study discovered that the participants never experienced any kind of training program related to the prevention of drug use. They said, "it was like society has turned a blind eye to threat of drug use among youth" (Mirlashari et. al., 2020).

The first theme that was noted based on the interview of nurses was "low experience about drug prevention" (Mirlashari et. al., 2020). There is a disconnect between nurses and prevention of drug addiction programs in their curriculum. "The second theme was the 'lack of a clear definition of nurses' role in prevention of drug use" (Mirlashari et. al., 2020). There is a lack of school nurses in our country and these nurses could have a great role in the early recognition and prevention of deviation among kids. Researchers found that, "Nurses have a pivotal role in child protection and prevention of child abuse and neglect. Advanced practice nurses and those who work in primary care and community resource setting can provide health assessments for susceptible families and recognize risk factors for potential child abuse and neglect" (Mirlashari et. al., 2020). Nurses should be trained to focus their assessment on the prediction of potential abuse rather than recognizing abuse after it has already occurred.

Parenting dynamics are shown to have an immense impact on their children's behavior.

Most of the participants who dealt with drug abuse came from dysfunctional and broken homes

putting them at greater risk for poorer health outcomes into adulthood. There is a lack of supervision and protection in these homes endangering youth because of little to no guidance and education from important role models in their lives. It is important to the note that the study found "that the major obstacles to providing support and timely interventions for at-risk families and individuals include a lack of time and skills, short appointments, and long waiting lists for consultations. In fact, some families have learnt that problems must be really critical before they seek support" (Mirlashari et. al., 2020). The findings suggest the potential contribution nurses can offer to children who are at risk of developing substance use problems with the proper education and assessment.

Article 2: Does Continuous Trusted Adult Support in Childhood Impact Life-course Resilience

Against Adverse Childhood Experiences- A Retrospective Study on Adult Health-Harming

Behaviors and Mental Well-Being

This research article discusses the impact of support from a trusted adult during childhood when dealing with adverse childhood experiences. Face-to-face surveys for 18 to 69 years old examined ACEs suffered, a trustworthy, always available adult (AAA), current diet, smoking and alcohol consumption, and mental well-being in four different UK regions.

The study mentioned that ACEs are strongly associated with adopting health-harming behaviors (HHBs) in adolescence and adulthood. Some on these HHBs include smoking, heavy alcohol consumption, drug use and high calorie, low nutrients diets. "Recent studies have shown that ACEs can alter early brain development including pleasure and reward centres and can compromise the role of the pre-frontal cortex in impulse control" (Bellis et. al., 2017). There are some children who are able to avoid the negative health and social outcomes that can come from

stressful events. These children are termed resilient which is described as "an individual's ability to transform potentially toxic stress and consequently reduce the harmful physiological and psychological impacts of such stressors occurring during childhood development" (Bellis et. al., 2017). Emerging intelligence, strong cultural traditions, developed self-regulation skills, and sense of personal control have been associated with reliance during childhood. In addition, having a supportive adult present throughout childhood has been associated with lower levels of HHBs.

Adverse childhood experiences negatively impact multiple areas of health and well-being across the lifespan. With proper support provided to those experiencing hardships during childhood the outcomes of negative health problems can be mitigated according to this research conducted in 2017.

#### **Overall Discussion of Literature Review**

Overall, the research available regarding adverse childhood experiences and future health is abundant. There have been several studies conducted to identify the types of adverse childhood events and trauma that have the most impact on the future health and well-being of these individuals. There are also a number of studies that discuss the types of health outcomes seen in adulthood who experienced hardship throughout childhood. The articles that were discussed in this literature review contributed to a greater understanding of the types of adverse experiences, their risks, and possible interventions that may be beneficial to mitigate poorer health outcomes.

Each article had limitations of their own. Articles by Corso et. al., Varese et. al., Sonu et. al., Chang et. al, and Deschênes et. al., were all quantitative studies that perhaps limited the amount of information from each interviewee by minimizing their responses to each question

that was asked per the survey. The qualitative studies by Bellis et. al. and Mirlashari et. al. conducted qualitative studies allowing the participants to disclose as openly as desired the types of experiences they endured during childhood. These studies made it possible for the researchers to discover more possibilities and correlations between adverse events and future health. The seven studies all utilized appropriate sample sizes and collected pertinent data to bring light to new discoveries within this health concern.

Overall, most of the articles displayed great information. They incorporated large sample sizes and collected data in an organized and easy to understand manner. They were all able to follow through with their research studies and ultimately bring light to valuable information to guide future research pertaining to this topic.

### **Proposal For Further Study**

It is evident that information was gained during the literature review that answered many of the questions proposed in the research. However, there are also apparent gaps in the research that should be addressed. The availability of a support person throughout childhood is associated with fewer poor health outcomes in adulthood. Therefore, a study is proposed to determine the qualifications, characteristics, and relationship of support people that would be of increased benefit to the child experiencing adverse life events. This is especially important during a critical period of development to mitigate the occurrence of negative health outcomes in adulthood. The main research questions is:

 What makes a support person effective for a child who has experienced adverse childhood experiences to mitigate negative health outcomes in the future?

#### **Theoretical Framework**

The theoretical framework that correlates best with this research topic is that of Phil Barker. Phil Barker's theory of Tidal Model emphasizes that what works for one person pertaining to their care may not work for another person (Petiprin, 2020). The purpose of this model is to guide nurses in caring for patients faced with mental illness. This model views health and illness as fluid, however, it views life as a journey that can become "shipwrecked". "Barkers model includes six philosophical assumptions: a belief in the virtue of curiosity; recognition of the power of resourcefulness; respect for the patient's wishes; acceptance of the paradox of crisis as opportunity; acknowledging that all goals must belong to the patient; and the virtue of pursuing elegance, which means the simplest possible means should be sought" (Petiprin, 2020). The patient must accept that recovery is possible, change is inevitable, and become aware of the

fact that they have all the resources that are needed to overcome the journey. The Tidal Model uses a unique and specific way for interviewing patients. It reveals hidden meanings, the patient's resources and discovers what needs to be done to help with his or her recovery (Petiprin, 2020). This theory can be applied to this research because mental health is critical to the recovery of those who have experienced traumatic childhood events. The techniques used for the Tidal Model are critical to the interviewing process for this research proposal. The goal is to determine what the participants stories reveal and determines the resources and support available to each participant to overcome these tragedies and establish a healthier future. It is the role of mental health nurses to establish rapport and trust with their patients in order to identify unique and impactful interventions beneficial to each participant.

### **Primary Research Aims**

The primary research aim for this proposed qualitative study is to explore the perceptions of people who experienced childhood trauma and had a supportive person during that time.

Another aim is to determine the characteristics, qualifications, and relationship status that make a support person more effective in guiding a person to a healthier future after experiencing childhood trauma. Other aims to this study are to identify what kind of support is most effective, depending on the type of adverse childhood event that was experienced.

#### **Research Method**

#### **Research Design**

The design of the proposed research study will be carried out as a qualitative study utilizing numerous face-to-face interviews to collect data.

#### Sample Size

A total of 10 participants will be recruited in various locations of California to be included in the study. The criteria to be used are as follows: between the ages of 18 and 65 years old, residing in California, experienced at least two adverse events during childhood, and had a support person during childhood who was actively involved in the participants life during or after the adverse events occurred. There will not be any limitations on nationality and gender.

#### **Ethical Considerations**

Each participant will be provided with informed consent prior to the research study being conducted. There are a few considerations to be noted to legitimize this research study. First, the population to be studied could be considered vulnerable. Therefore, every effort will be made to ensure their privacy and safety. Next, participation in the study should be completely voluntary and the participants will have the ability to leave the study whenever they want. Patient identification will remain confidential. This will allow for the participants to feel comfortable about disclosing personal information pertaining to their experiences as a child. Finally, the study will be submitted to an Internal Review Board for examination of ethical concerns and data collection will not begin until after approval is received.

## **Strategy for Recruitment**

This study is aimed to work with individuals who have suffered traumatic experiences during childhood and had a support person available throughout those experiences. The strategies used for the recruitment of the participants will be through purposive sampling. The researchers will utilize their expertise to select the sample that is most useful for the purpose of the research. This will allow the researchers to collect the necessary information in order to formulate the most accurate data. The researchers include health care workers that are experienced in mental health medicine.

### Methodology

This study will utilize a qualitative approach after obtaining demographic and baseline information. The purposive sampling method will be used to recruit participants for the study. Specifically, the snowballing method will be utilized on social media to gather participants. A set of open-ended questions will be asked to each participant to begin the interview however, as the interview progresses these open-ended questions will then be individualized based upon the experiences of the participant.

## Demographic information will be:

- Age
- Ethnicity
- Gender
- Occupation

## Background information will be:

- How many adverse childhood events did you experience before the age of 18?
- How old were you when you experienced the traumatic event?
- What was/is the relationship of your support person to you?
- How old was your support person?
- What kind of credentials (if any) did your support person have?
- How long was your relationship with your support person before the event?
- How long did your support person aid you in dealing with the event?

#### The following open-ended questions will be asked:

- What kind of adverse childhood event did you experience?
- What did that situation feel like?

- How did your support person help you during the difficult time?
- How effective was your support person during this critical time?
- How long was your relationship with your support person before the event?
- What is your health like today?
- Are there any chronic health problems that you have been dealing with since you've experienced the traumatic event?
- Please describe qualities that your support person had that you feel were beneficial for you.

Once a baseline is assessed open-ended questions will be adjusted based off the specific experiences of the particular participant during that time to gain further critical information pertaining to the interviewee.

## **Data Analysis**

Demographics and background information will be assessed using descriptive statistics. The qualitative questions in the study will be analyzed using content analysis. The responses from each participant will be categorized based upon their feedback during their interview to differentiate between similarities and differences. Qualities of their support person will be grouped together to determine the most effective traits to minimize future health problems. To accomplish this, similar words and phrases will be identified from each interview to distinguish common themes amongst the participants.

#### **Conclusion**

The proposed research questions were answered from conducting the literature review.

There were multiple childhood traumatic events and stressors identified as leading to poorer health outcomes into adulthood. Childhood maltreatment including physical, mental, and

emotional abuse, and neglect were associated stressors that negatively impacted the individual's future health. In addition, peer victimization, experiences of parental loss, household substance abuse, household mental abuse, household member in prison, and violent treatment of a mother were also found to be risk factors leading to poorer health outcomes. Health problems that were most prevalent to those experiencing childhood adverse events included high risk behaviors such as smoking, heavy alcohol consumption, and higher-risk sexual behavior; mental health problems including depression, PTSD, and suicide; and chronic diseases such as coronary heart disease, cancer, diabetes, chronic headaches, HIV, among many others. In spite of that, the most effective intervention for a child during their critical period of development is to have an always available support person to provide guidance if adverse events should occur.

The findings identified in this thesis can be applied to clinical practice. The likelihood a child who has experienced an adverse event to have poorer health outcomes into adulthood is high. Therefore, with this knowledge health care professionals can identify these risk factors and provide interventions and treatment to those in need before allowing them to manifest into greater health problems.

Although an abundance of information was gathered throughout the literature review a new question came to the surface: What makes a support person effective for a child who has experienced adverse childhood experiences to mitigate negative health outcomes in the future? This research can be beneficial to health care providers and other professionals working with children to guide them to searching for the right support person. There is still much to be learned regarding this topic, however, identification and awareness is a step in the right direction to mitigate modifiable risk factors pertaining to chronic disease and mental illness.

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Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
To assess the	The population were	Quantitative,	Propensity score	It was found that those	This study incorporates	This study limited the
difference in a	adults who reported	correlational survey	methods were used to	who experienced some	many participants and	questions that were
preference-based	childhood		compare the 2 groups.	sort of maltreatment	uses many techniques	asked to each
measure of health	maltreatment		Basic demographic	during their childhood	in order to analyze the	participant. There
among adults reporting	(n=2812) and those		information was	had significant losses	data.	were not open-ended
maltreatment as a	who reported no		collected from	related to their health		questions which does
child versus those	childhood		participants. There are	into adulthood.	There were also	not allow the
reporting no	maltreatment		5 categories of child	Physical abuse, sexual	multiple tables to	participant to be able
maltreatment.	(n=3356).		maltreatment	abuse, and emotional	clearly organize the	to truly express
			including physical,	neglect were	data that was found.	themselves. The study
			sexual, emotional	significant in and of		does not clarify the
			abuse, physical	themselves. They		age group of the
			neglect, and emotional	reduced health related		participants or include
			neglect. There were	quality of life		their demographic
			five other categories	significantly.		information. This study
			for the adverse events			also does not mention
			that were experienced			if an informed consent
			during childhood these			was used before it was
			include household			conducted.
			substance abuse,			
			household mental			
			illness, violent			
			treatment of mother,			
			household member in			
			prison, and parental			
			separation or divorce.			
			The main outcome of			
			interest for this study			
			was a preference-			
			based health-related			
	Study  To assess the difference in a preference-based measure of health among adults reporting maltreatment as a child versus those reporting no	Study interest, sample size  To assess the difference in a adults who reported childhood measure of health among adults reporting maltreatment as a child versus those reporting no interest, sample size  The population were adults who reported maltreatment (n=2812) and those who reported no childhood maltreatment	Study     interest, sample size       To assess the     The population were     Quantitative,       difference in a     adults who reported     correlational survey       preference-based     childhood       measure of health     maltreatment       among adults reporting     (n=2812) and those       maltreatment as a     who reported no       child versus those     childhood       reporting no     maltreatment	Study To assess the difference in a preference-based childhood mattreatment as a child versus those reporting no maltreatment.  (n=2812) and those who reported no childhood maltreatment (n=3356).  (n=3356).  Stategories of child maltreatment including physical, sexual, emotional abuse, physical neglect, and emotional neglect. There were five other categories for the adverse events that were experienced during childhood turing childhood these include household substance abuse, household mental illness, violent treatment of mother, household member in prison, and parental separation or divorce. The main outcome of interest for this study was a preference-	To assess the difference in a adults who reported (childhood measure of health among adults reporting maltreatment as a childhood maltreatment (n=3356).  In a second maltreatment (n=3356).  In a second maltreatment (n=346).  It was found in a second maltreatment (n=346).  In a second maltreatmen	Study         interest, sample size         Moderation         Propensity score         It was found that those difference in a duffus who reported offference in a preference-based childhood mattreatment         Adults who reported compare the 2 groups. methods were used to mattreatment and adults who reported in among adults reporting of childhood mattreatment as a who reported no childhood maltreatment as a who reported no childhood maltreatment         Basic demographic information was collected from participants. There are into adulthood. There were also maltreatment         There were also many participants and was sont of maltreatment and adulthood. Information was collected from participants. There are into adulthood. There were also maltreatment.         There were also maltreatment information was collected from participants. There are into adulthood. There were also maltreatment including physical, sexual, emotional anglect, and emotional neglect, and emotional neglect. There were five other categories for the adverse events that were experienced during childhood these include household substance abuse, household mental illness, violent treatment of mother, household member in prison, and parental separation or divorce. The main outcome of interest for this study was a preference.         Interest for this study was a preference.         This study incorporates many retricipants and who experienced during childhood whose profit participants. There are also sort of maltreatment as ont of the participants. There are also specificated from related to their health the participants. There are also specificated from participants. There are also specificated from related to their health the participants. There are also specificated from participants. There ar

Authors/Citation	Purpose/Objective of	Sample - Population of	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
	Study	interest, sample size		quality of life measure,			
				or utility for 2			
				populations- adults			
				who self-reported			
				childhood			
				maltreatment during			
				the first 18 years of life			
				and those who did not			
				report maltreatment			
				during childhood.			
Filippo Varese, Feikje	Examine the	There were n=2048	Prospective and cross-	Followed the meta-	Childhood adversity	Many articles were	This analysis covers
Smeets, Marjan	magnitude and	psychotic patients and	sectional cohort	analysis of	and trauma	reviewed when	data that was taken
	consistency of the	1856 nonpsychiatric	studies. Quantitative	Observational Studies	substantially increases	compiling information	over many years.
Drukker, Ritsaert	effects of different,	controls. 10	review and meta-	in Epidemiology	the risk of psychosis.	for this study. Charts	There are no specific
Lieverse, Tineke	widely-examine types	prospective and quasi-	analysis of the	guidelines. There was	Review found that,	were implemented in	information about the
Lataster, Wolfgang	of adversity and	prospective studies (n-	available literature.	an analysis of	with the exception of	the discussion section	participants
	trauma observed in	41,803), and 8		specifically childhood	parental death, all	to assist with the	demographics.
Viechtbauer, John	prospective cohort	population-based		trauma. Appropriate	types of adversity	portrayal of	
Read, Jim van Os,	studies, large	cross-sectional studies		steps were taken to	were related to an	information. Discusses	
Richard P. Bentall,	population-based	(n=35,546).		identify all relevant	increased risk of	multiple adverse	
	cross-sectional studies,			studies and reduce file	psychosis, indicating	childhood traumas.	
Childhood Adversities	and case-control			drawer effects. Only	that exposure to		
Increase the Risk of	studies.			reports after January	adverse experiences in		
Psychosis: A Meta-				1980 were Included.	general increase the		
analysis of Patient-					risk of psychosis,		
analysis of Patient-					regardless of the exact		
Control, Prospective-					exposure.		
and Cross-sectional							
Cohort							

Authors/Citation	Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
Studies, Schizophrenia							
Bulletin, Volume 38,							
Issue 4, 18 June 2012,							
Pages 661–							
671, <u>https://doi.org/1</u>							
0.1093/schbul/sbs050							
(Varese et. al., 2012)							
Bellis, M. A.,	To test if access to a	There were n=7.047	Cross-sectional,	A survey was done for	The more adverse	This study used a wide	The limitation to this
Hardcastle, K., Ford,	trusted adult in	participants. The	quantitative, face-to-	the Residents in Wales	childhood events that	range of ages. There	study was the specific
K., Hughes, K., Ashton,	childhood is associated	participants ages	face household	between February and	occurred the more	were multiple things	geographical location
K., Quigg, Z., & Butler,	with reduced impact of	ranged from 18-69	surveys examining	May of 2015 and then	prevalence there was	being assessed in this	of each of the
N. (2017). Does	adverse childhood	years old.	adverse childhood	repeated in three	for poor diet, daily	study. Not only was	participants. There
continuous trusted	events on adoption of		experiences and a	other areas between	smoking, and heavier	the negative effects of	also wasn't much room
adult support in	health harming		trusting, supportive	June and September	alcohol consumption	adverse childhood	for the participants to
childhood impart life-	behaviors and lower		adult.	2015. There were 9	but it decreased with	events addressed but	speak freely about
course resilience	mental well-being in			categories of ACEs	having a support	there was an	their experiences with
against adverse	adults.			The participants were	person available.When	intervention to	their childhood events.
childhood experiences				categorized into	there was lack of	promote resilience and	Only one intervention
- a retrospective study				having 0, 1, 2-3, or 4 or	support and multiple	minimize the risk of	was mentioned and
on adult health-				more ACE categories.	ACEs mental health	poor health outcomes	tested.
harming behaviors and				Three health harming	declined substantially.	later in life. This study	
mental well-				behaviors were	ACEs negatively impact	also followed the	
being. BMC				measure such as	both mental and	correct criteria for an	
psychiatry, 17(1), 110.				smoking, poor diet,	physical health. If a	informed consent.	
https://doi.org/10.118				and heavy drinking.	child has someone		
<u>6/s12888-017-1260-z</u>				11 questions were	they trust in their life		
				asked to measure the	then this can help the		
(Bellis et. al., 2017)				exposure to childhood			

Authors/Citation	Purpose/Objective of	Sample - Population of	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
	Study	interest, sample size		adverse events and	child to overcome		
				family dysfunction	these adversities.		
				before the age of 18.	these day ersities.		
				The Short Warwick-			
				Edinburgh Mental			
				Well-Being Scale was			
				used to measure how			
				the individuals were			
				feeling over the past			
				two weeks.			
Sonu, S., Post, S., &	To look at the	This study analyzed	Cross-sectional,	This was a telephone	The prevalence of	This study included a	The study did not
Feinglass,	association between	data from 2011-2012	quantitative analysis	interview survey from	multiple household	large number of	account for any other
J. (2019). Adverse	adverse childhood	Behavioral Risk Factor	for the Center for	nine states that used	stressors such as	participants from a	demographic
childhood experiences	experiences (ACEs) and	Surveillance System.	Disease Control	the 8-item ACEs	mental illness, illegal	large age range.	information as far as
and the onset of	early-onset chronic	This data included	Behavioral Risk Factor	questionnaire. The	substance use,	large age range.	more risk factors for
chronic disease in	conditions. Patterns	information from	Surveillance System.	study split the	parental separation,		chronic health
young	were analyzed to	86,969 respondents	Survemance System.	participants into three	and incarcerated		conditions such as
adulthood. <i>Preventive</i>	identify the association	who represented a		different groups based	household members		smoking and obesity.
medicine, 123, 163-	between ACEs and	nine-state adult		off age. Those who	was the highest in the		This study also does
170. https://doi.org/1	adult health	population of 32		were between 18 and	18–34-year old's. In		not mention an
0.1016/j.ypmed.2019.	disaggregated by age.	million people.		34 years old, 35 to 54	the middle-aged		informed consent or
03.032	The study also aims to	типоп реорге.		years old, and those	adult's category (35–		talk about the privacy
(Sonu et. al.,2019)	investigate the extent			who were older than	44-year old's) physical,		of the participants.
(30114 Ct. 41.)2013)	to which childhood			55. The questionnaire	verbal, and sexual		or the participants.
	adversities affect			focused on eight	abuse were the		
	prevalence of self-			stressors throughout	highest. The study		
	reported chronic			childhood. Questions	found that 4 or more		
	conditions and worsen			aimed to identify	ACEs is associated with		
	quality of life related to			physical abuse,	a higher risk of		
	quanty of me related to			emotional neglect,	multiple chronic		
				Ciliotional Hegiect,	manuple chronic		

Authors/Citation	Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
	health into young	microsy campic cize		verbal abuse, sexual	conditions and poorer		
	adulthood.			abuse, substance	self-reported general		
				abuse, and mental	health.		
				illness. Other			
				questions were asked			
				to determine any			
				incarcerated			
				household members,			
				domestic violence, and			
				parental separation as			
				well. The cumulative			
				ACE score ranged from			
				0 to 8 and scores of 4			
				or more indicated			
				highest exposure. The			
				next category of			
				questions had to do			
				with chronic			
				conditions and health			
				related outcomes.			
Chang, X., Jiang, X.,	To examine the	The baseline sample	A cross-sectional study	The participants were	Adverse childhood	The study included a	The study did not
Mkandarwire, T., &	relationship between	was adults aged 18-59	was carried out in	given an anonymous,	events were	wide range of ages	include possible
Shen, M. (2019).	adverse childhood	years from 13	Macheng city, Hubei	self-administered	significantly associated	within adulthood. It	interventions that
Associations between	experiences and	collective rural	province, China, in	questionnaire	with risk behaviors and	looked at specific	could be implemented
adverse childhood	health-related	communities. The	May 2014. First, 13	conducted by trained	poor health outcomes	adverse childhood	to decrease the risk of
experiences and	behaviors, chronic	participants were	communities were	investigators and	in adulthood, and	events and their	high-risk behavior and
health outcomes in	diseases, and mental	selected from three	listed according to	facilitated by staff by	different adverse	relationship to high-	poor health in
adults aged 18-59	health in adults. The	communities using	their distance from the	staff of Macheng	childhood events	risk behaviors in	adulthood. The study
years. PloS one, 14(2),	primary objective of	random cluster	main county urban	Center for Disease	components had	adulthood. The study	also did not assess the
e0211850.	the study was to look	sampling. The three	area. Then, they	Prevention and	different long-term	also was done is a	ages at which the high-

Authors/Citation	Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
https://doi.org/10.137	at the relationships	communities that took	randomly selected	Control. The ACE	effects on health	middle-income	risk behaviors and
1/journal.pone.02118	between individual	part in the survey were	three communities	International	outcomes in	country, therefore the	poor health began.
<u>50</u>	ACE components and	from Drum Tower	near the downtown	Questionnaire (ACE-IQ)	adulthood. The main	results were based off	
	high-risk health	Community, Longchi	areas to take part in	was used to assess	outcome variables	individuals with	
(Chang, et. al., 2019)	behaviors in adulthood	Community, and South	the survey.	ACEs, including	were lifetime drinking	different	
	in China.	Lake Community. The		psychological, physical,	status, lifetime	socioeconomic and	
		sample size was a total		and sexual forms of	smoking status,	demographic	
		of n=1339 adults.		abuse, as well as	chronic disease,	background other than	
				household	depression, and	that of the high-	
				dysfunction. Multiple	posttraumatic stress	income countries.	
				logistic regression	disorder. Men and		
				models were used to	lower-income		
				examine the	participants had a		
				associations between	higher prevalence of		
				overall ACE score and	ACEs than women and		
				individual ACE	higher-income		
				component scores and	participants.		
				risk	Experience of ACEs		
				behaviors/comorbiditi	was associated with		
				es in adulthood after	depression and PTSD		
				controlling for	in adulthood. As the		
				potential cofounders.	ACE score increased,		
					the risk odds for PTSD,		
					chronic disease,		
					depression, and		
					smoking and drinking		
					behavior during		
					adulthood significantly		
					increased.		

Authors/Citation	Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
Mirlashari, J.,	To explore the nurse's	44 individual in-depth	A qualitative method	Participants were	Traumatic events	Participants were	There were only 44
Jahanbani, J., &	role in the prevention	interviews. The	was used for this study	recruited purposefully	during childhood were	asked to agree with to	participants included
Begjani, J. (2020).	of childhood addiction	participants were	because of their	with the help of staff	a shared experience	the recording of their	in this study. The age
Addiction, childhood	in Tehran. Attempted	addicted men and	capacity to explore	from medical	for the majority of	interviews and the	group could have been
experiences and	to draw attention to	women ages 18-35	human behaviors, this	treatment centers and	participants, and	anonymous use of	widened to older that
nurse's role in	the potential	years old. Twenty	method was well-	nongovernmental	included physical,	information. In order	35 years of age. The
prevention: a	contribution that	interviews were	suited to demystifying	organizations that help	sexual, and emotional	to comply with	study did not give any
qualitative	nurses make in	conducted with drug-	the facts about drug	addicts. The interviews	abuse, exposure to	research ethics, an	information on
study. <i>Eastern</i>	addressing major	dependent young	use with more	lasted between 30	parental violence in	informed consent form	possible nursing
Mediterranean health	public health problems	people (10 male, 10	accurate information	minutes and 150	early childhood, and	was completed by all	interventions and
journal = La revue de	like addiction in	female). Fifteen of	that reflects the daily	minutes over 1-2	other family problems	participants. They all	identification of drug
sante de la	countries by building	these participants	experiences of	sessions. There were	such as family	agreed to the	abuse rather than
Mediterranee	on the results of a	were in treatment for	substance users' lives.	face-to -face, semi-	breakdown and	anonymous use of	more education within
orientale = al-Majallah	qualitative inquiry that	their opiate addiction	Snowball sampling was	structured interviews	parental addiction.	information by the	that field. The study
al-sihhiyah li-sharq al-	explored the early	and the rest were	also utilized.	were held with	Inappropriate	research team. Audio	also does not discuss
mutawassit, 26(2),	childhood experiences	actively using as the		participants. The	parenting approach	tapes were deleted	the type of drugs the
212–218.	of young drug users.	time. Four interviews		interview questions	such as disconnection	after the end of the	participants struggled
https://doi.org/10.267		were conducted with		were open-ended to	between parents and	study. Participants	with using or how the
19/2020.26.2.212		family members of the		allow participants to	their child, living in 2	were also able to	drugs made them feel.
		participants and 20		thoroughly describe	different worlds,	withdraw from the	
(Mirlashari, et. al.,		interviews were		their opinions,	parents' high	study at any time. The	
2020)		conducted with		perceptions, and	expectations for their	interviews that were	
		nurses.		experiences on the	children and	conducted allowed	
				nurse's involvement in	inappropriate	participants to speak	
				prevention of	punishment was all	freely when using	
				addiction. They were	part of another major	open-ended questions	
				asked about childhood	theme associated with	as to not limit the	
				experiences, their	drug addiction. Lack of	amount of information	
				relationship with their	knowledge and	given. Getting the	
				families, when and	tolerant attitude	nurses perspective on	

Authors/Citation	Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
	Study	interest, sample size		how they came to	toward drug use was	the issue was also	
				know about drugs,	frequently mentioned	insightful and critical	
				their first drug use	by participants. Based	to this study.	
				experience and the	on the interviews,		
				conditions and the	none of the		
				environment in which	participants had		
				it took place. They	experienced any type		
				were also encouraged	of training programs		
				to talk about the	related to the		
				probable training and	prevention of drug		
				preventive health	use. As far as nurses		
				programs they	and drug use		
				undertook during their	prevention it was		
				childhood periods	found that there was		
				regarding drugs and	no training program		
				drug use.	regarding the		
					prevention of		
					addiction in their		
					curriculum. There was		
					also not a clear role for		
					the nurse in the		
					prevention of drug		
					use.		
Deschênes, S. S.,	Investigated potential	The sample size of the	Cohort study of British	ACEs were assessed	It was found that ACE	A large cohort was	The study focuses on
Kivimaki, M., &	psycho-bio-behavioral	study was N=5610	civil servants aged 35	with a series of	category most	used in this study. The	working-age adults at
Schmitz, N. (2021).	mediators of the	participants. 540	to 55 years when they	questions. Responses	frequently endorsed	study employed a	baseline and is
Adverse Childhood	association between	people with prevalent	began the survey in	were "yes" or "no" and	was parental	multidimensional	predominantly men
Experiences and the	adverse childhood	CHD at or before wave	1985. Data collection	positive responses	arguments. Each single	approach to examining	and white
Risk of Coronary Heart	experiences (ACEs) and	5 were excluded.	has occurred every 2	were summed to	ACE increase was	potential pathways	race/ethnicity. The
Disease in Adulthood:	the risk of coronary		to 3 years since,	create a continuous	associated with 9%	linking ACEs with CHD.	sample limits

Authors/Citation	Purpose/Objective of Study	Sample - Population of interest, sample size	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
Examining Potential	heart disease (CHD) in		alternating between	ACEs score ranging	higher odds of CHD.		generalizability to
Psychological,	adulthood. Examined		clinical examination	from 0 to 8.	Retrospectively		older adults, women,
Biological, and	potential psychological		and questionnaire	Depression and	reported ACEs were		and other
Behavioral Mediators	(depression and		survey. The present	anxiety symptoms	associated with higher		races/ethnicities. The
in the Whitehall II	anxiety), behavioral		study Wave 5 (1997-	were assessed using	levels of depression		study was also not
Cohort Study. Journal	(smoking, alcohol		1999) served as the	subsets of items from	and anxiety symptoms,		detailed and did not
of the American Heart	dependence, sleep,		study baseline given	the 30-item General	alcohol dependence,		include multiple
Association, 10(10),	and physical activity),		that ACEs were	Health Questionnaire.	and smoking. Higher		periods of time for
e019013.	and cardiometabolic		retrospectively	The General Health	levels of depression		specific symptoms felt
https://doi.org/10.116	pathways linking ACEs		assessed, and current	Questionnaire assesses	and anxiety symptoms,		by the participants.
1/JAHA.120.019013	and coronary heart		depression and anxiety	general mental health	as well as smoking and		
	disease with a		symptoms, health	status, with a 5-item	a greater number of		
(Deshchênes, et. al.,	prospective cohort		behaviors, and	subscale assessing	cardiometabolic		
2021)	study.		cardiometabolic	anxiety symptoms and	dysregulations, were		
			dysregulations were	4-item subscale that	associated with		
			assessed. Incident CHD	assesses depressive	incident CHD.		
			was assessed from	symptoms,			
			wave 6 (2001) to wave	experienced within the			
			11 (2012-2013).	past week, on a rating			
				scale from 0 to 3.			
				Scores on the			
				subscales can range			
				from 0 to 12 with			
				higher scores			
				reflecting greater			
				symptom severity			
				Cardiometabolic			
				dysregulations were			
				assessed by clinical			
				examination and were			

Authors/Citation	Purpose/Objective of	Sample - Population of	Study Design	Study Methods	Major Finding(s)	Strengths	Limitations
	Study	interest, sample size					
				based on the criteria			
				for metabolic			
				syndrome and			
				systemic inflammation.			
				CHD was objectively			
				assessed using clinical			
				assessments and			
				medical records.			