Mid-America (HHS Region 7)

TTCMental Health Technology Transfer Center NetworkFunded by Substance Abuse and Mental Health Services Administration

Context Clues: Using Social Determinants of Health (SDOH) to Enhance Treatment: Pediatric Sleep

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Mid-America MHTTC





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The MHTTC Network uses affirming, respectful and recovery-oriented language in all activities. That language is:

STRENGTHS-BASED AND HOPEFUL

INCLUSIVE AND ACCEPTING OF DIVERSE CULTURES, GENDERS, PERSPECTIVES, AND EXPERIENCES NON-JUDGMENTAL AND AVOIDING ASSUMPTIONS

INVITING TO INDIVIDUALS

OWN JOURNEYS

PERSON-FIRST AND

FREE OF LABELS

PARTICIPATING IN

RESPECTFUL, CLEAR AND UNDERSTANDABLE

HEALING-CENTERED/ TRAUMA-RESPONSIVE

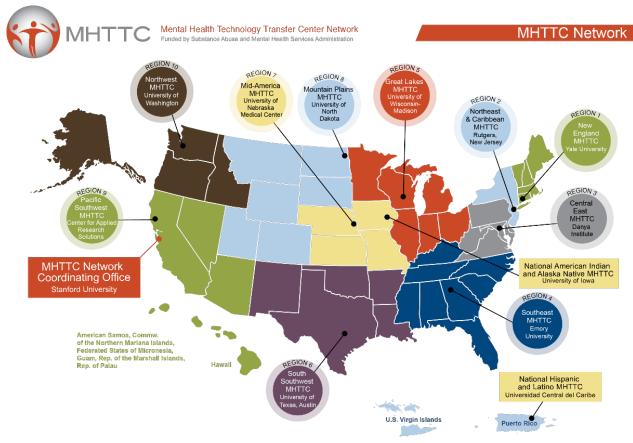
CONSISTENT WITH OUR ACTIONS, POLICIES, AND PRODUCTS

Adapted from: https://mhcc.org.au/wp-content/uploads/2019/08/Recovery-Oriented-Language-Guide_2019ed_v1_20190809-Web.pdf

Mid-America Mental Health Technology Transfer Center

Established to increase utilization of evidence-based mental health practices.

- Missouri, Iowa, Nebraska, and Kansas.
- Free training and technical assistance.
- SAMHSA grant awarded to the Behavioral Health Education Center of Nebraska at University of Nebraska Medical Center. (5 years, \$3.7 million, grant number: H79SM081769)

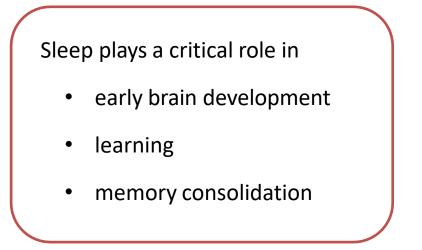


Learning Objectives

- Understand the importance of pediatric sleep for health and well-being
- Describe the impact of social determinants on pediatric sleep
- Understand the importance of assessing for common sleep concerns within a social determinants of health framework in primary care settings
- Identify actionable steps to screen and refer to community supports for social determinants of health

Making the Case for Sleep....

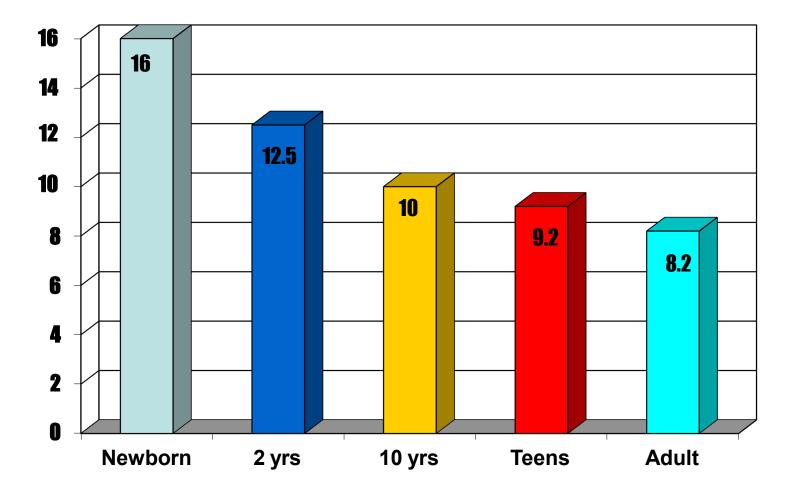
- Children spend nearly as much time asleep as they do awake
- Approximately 25% of children experience some type of sleep problem
- Few children "grow out" of sleep problems



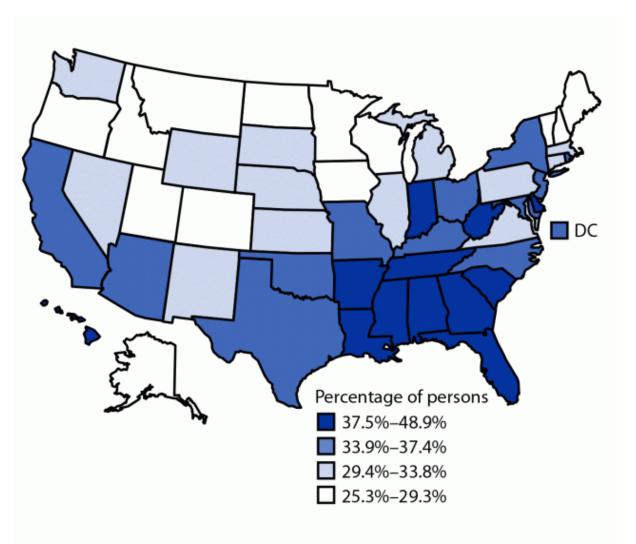
Disrupted sleep is associated with

- behavior problems
- poor emotion regulation
- family functioning

Total Sleep Time Recommendations



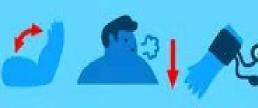
Short Sleep Duration



Sleep Stages

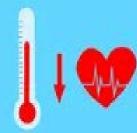
The 4 Stages of Sleep

 NREM Stage 1
 transition period between wakefulness and sleep
 lasts around 5 to 10 minutes



NREM Stage 3

- muscles relax
- blood pressure and breathing rate drop
- deepest sleep occurs





NREM Stage 2

- body temperature drops and
- heart rate begins to slow
- brain begins to produce sleep spindles
 lasts approximately 20 minutes

REM Sleep

- brain becomes more active
- body becomes relaxed and immobilized
- dreams occur
- eyes move rapidly



Pediatric Sleep Disorders









Primary Sleep Disorders

Obstructive sleep apnea Narcolepsy Restless Leg Syndrome Periodic Limb Movement Disorder

Behavioral Insomnias of Childhood

Sleep-Onset Association Type Limit-Setting Type Combined Type

Circadian Rhythm Disorders

Delayed Sleep Phase Type Advanced Sleep Phase Type

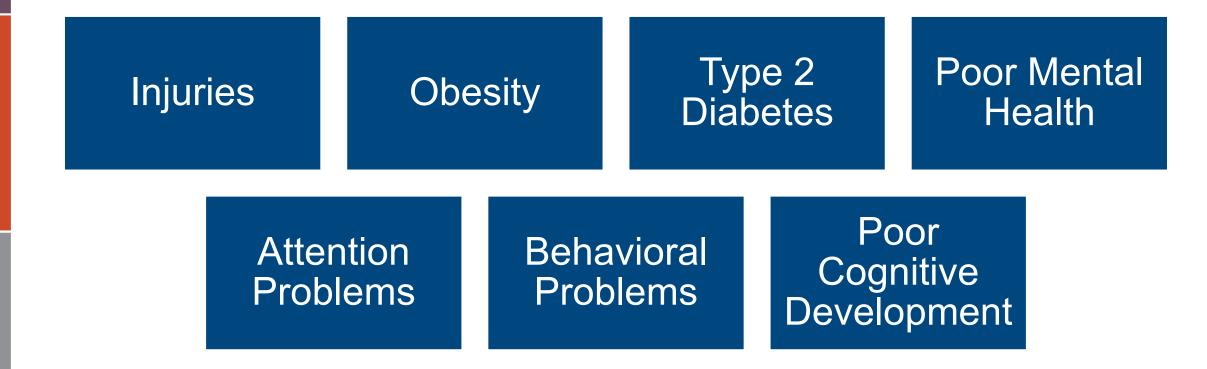
Parasomnias

Sleep Terrors and Sleepwalking

Nightmares

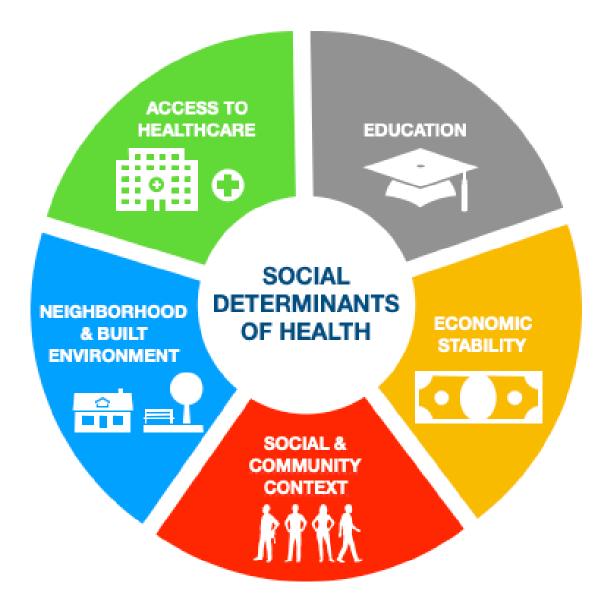
Rhythmic Movement Disorder

Poor Sleep Increases Childhood Risk for...

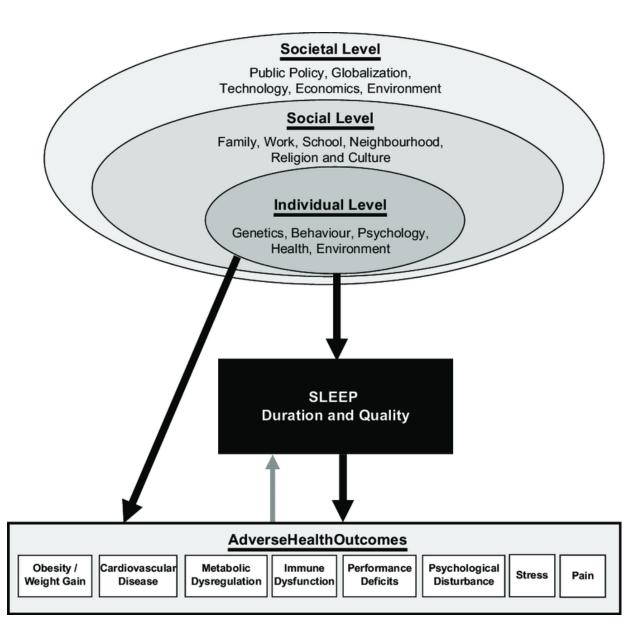


Source: Wheaten & Clausen, 2021 Center for Disease Control and Prevention

Social Determinants of Health



Sleep as a SDOH



Poor Sleep is More Common....

- Low Socioeconomic Status
- Southeastern United States
- Racial and ethnic minority groups
- Special health care needs
- Neighborhood safety
- Housing
- Light exposure
- Mental health problems—
 parental depression



Assessment & Intervention



Screening

Pediatric Sleep Concerns

	Toddler/preschool 2–5 years	School age 6–12 years				
Bed time problems (B)	Does your child have any problems going to bed or falling asleep?	Are there any problems at bedtime?*				
Excessive day time sleepiness (E)	Does your child seem overtired or sleepy a lot during the day? Do they still nap?	Does your child have difficulty waking in the morning, seem sleepy during the day or take naps?*				
Awakenings during the night (A)	Does your child wake up a lot at night?	Does your child seem to wake up a lot at night? Any sleep walking or nightmares? Is there trouble getting back to sleep?*				
Regularity and duration of sleep (R)	Does your child have a regular bed time and wake time? What are they?	What time does your child go to bed and get up on school days? Weekends?*				
Snoring (S)	Does your child snore a lot or have difficulty breathing?	Does your child have loud or nightly snoring or breathing difficulties at night?*				

Screening SDOH

Access to HealthCare	Education	Economic Stability	Social and Community Context	Neighborhood and Built Environment
 Parental Mental Health Well visits Access to regular health care and pcp 	 Parental Education Level Child academic achievement Access to after school programs 	 Sharing Bedroom/Sleep Space Exposure to Light Employment Food Insecurity 	DiscriminationSocial support	 Physical Activity Violence in Neighborhood

Evidence-Based Interventions

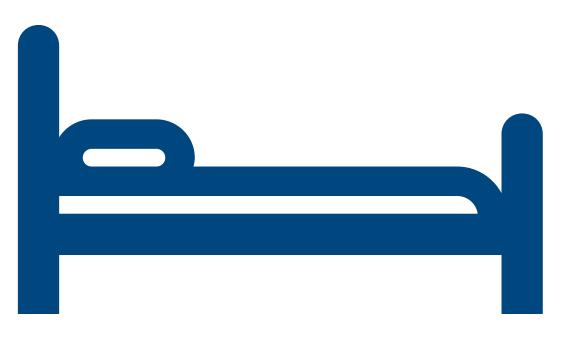
- 1.Dissociate Feeding from Sleep onset / awakenings
- 2.Unmodified Extinction (Systematic Ignoring)
- **3.Systematic Ignoring with Parental Presence**
- 4. Graduated Extinction (Systematic Ignoring)
- 5. Quick Check Method
- 6.Medication and Extinction
- 7. Scheduled Awakenings
- 8.Faded Bedtime Procedure
- 9.Bedtime Pass (Extinction-based)

10.Early Intervention/Parent Education

Kuhn, B. R., & Weidinger, D. (2000). Interventions for infant and toddler sleep disturbance: A review. *Child Fam Beh Ther, 22*(2), 33-50.

Tips for Good Sleep

- Set bed and wake-up times at the same time each day, including weekends
- Keep the bedroom quiet and a comfortable temperature
- Remove electronic devices from the bedroom
- Avoid large meals and caffeine before bedtime
- Make sure kids are active during the day so they can fall asleep at night
- Model good sleep behaviors for kids
- Have a bedtime routine like taking a warm bath, brushing teeth, and reading a bedtime story
- Turn the lights out at bedtime



Melatonin: Evidence-supported uses

- The American Academy of Sleep Medicine recommended melatonin to treat
 - delayed sleep/wake phase disorder
 - blind adults with non-24-hr sleep/wake disorder
 - irregular sleep/wake disorders in children or adolescents with neurological disorders (Auger et al., 2015)

Pediatric Sleep Disorders









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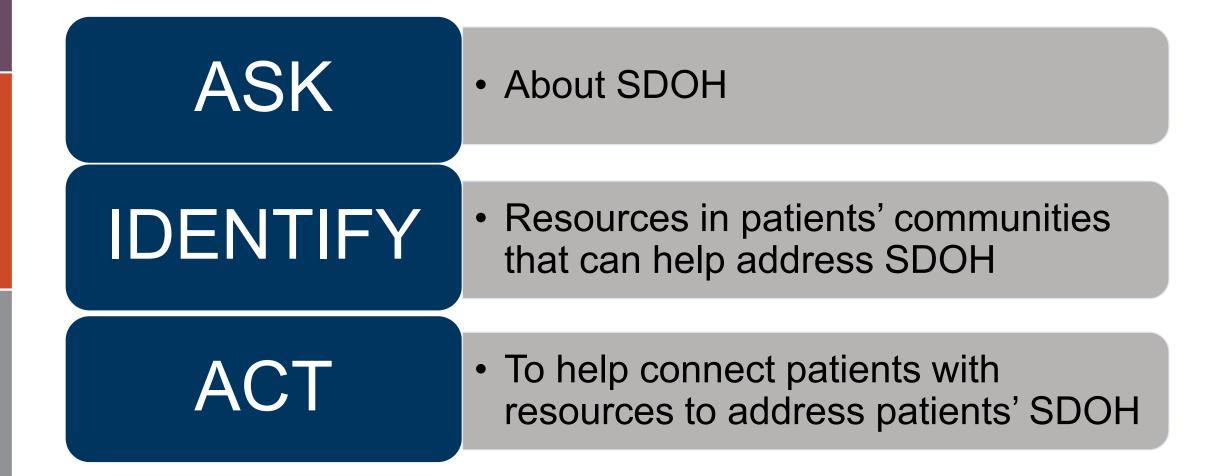


Sleep Terrors and Sleepwalking

Nightmares

Rhythmic Movement Disorder

AAFPs Framework to Address SDOH



ASK: Screen



PRAPARE: Protocol for Responding to and Assessing Patient Assets. Risks. and Experiences Paper Version of PRAPARE for Implementation As of September 2, 2016

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Identify: Z-Codes for Sleep



Problems related to lifestyle Z72.0 Tobacco use Z72.3 Lack of physical exercise Inappropriate diet and eating habits Z72.4 Z72.51 High risk heterosexual behavior Z72.52 High risk homosexual behavior Z72.53 High risk bisexual behavior Z72.6 Gambling and betting Z72.820 Sleep deprivation Inadequate sleep hygiene Z72.821 Z72.89 Other problems related to lifestyle Problem related to lifestyle, unspecified Z72.9

Problems related to life management difficulty

Z72

Z73

Z73.0	Burn-out
Z73.1	Type A behavior pattern
Z73.2	Lack of relaxation and leisure
Z73.3	Stress, not elsewhere classified
Z73.4	Inadequate social skills, not elsewhere classified
Z73.5	Social role conflict, not elsewhere classified
Z73.6	Limitation of activities due to disability
Z73.810	Behavioral insomnia of childhood, sleep-onset association type
Z73.811	Behavioral insomnia of childhood, limit setting type
Z73.812	Behavioral insomnia of childhood, combined type
Z73.819	Behavioral insomnia of childhood, unspecified type
Z73.82	Dual sensory impairment
Z73.89	Other problems related to life management difficulty
Z73.9	Problem related to life management difficulty, unspecified

IDENTIFY

Z55 – Problems related to education and literacy Z56 – Problems related to employment and unemployment

Z57 – Occupational exposure to risk factors Z59 – Problems related to housing and economic circumstances

Z60 – Problems related to social environment

Z62 – Problems related to upbringing

Z63 – Other problems related to primary support group, including family circumstances

Z64 – Problems related to certain psychosocial circumstances

Z65 – Problems related to other psychosocial circumstances



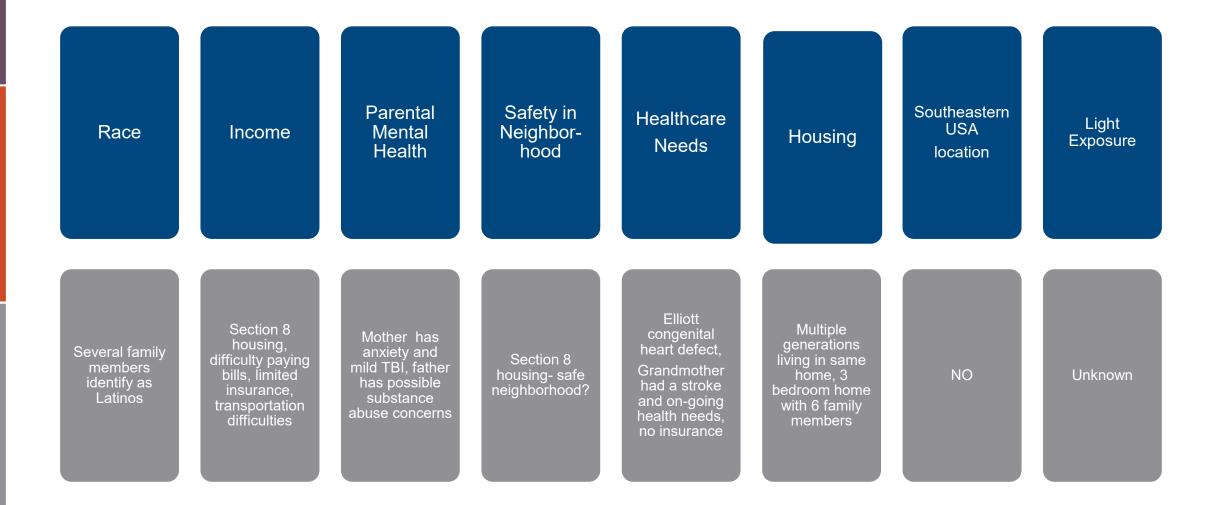


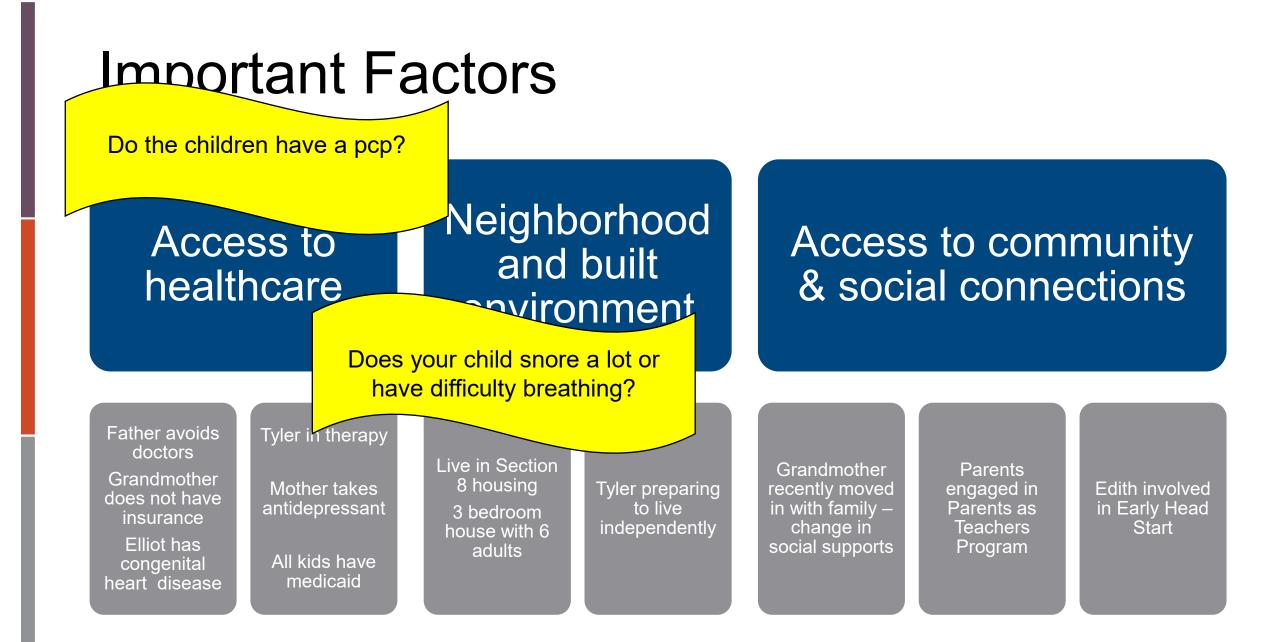


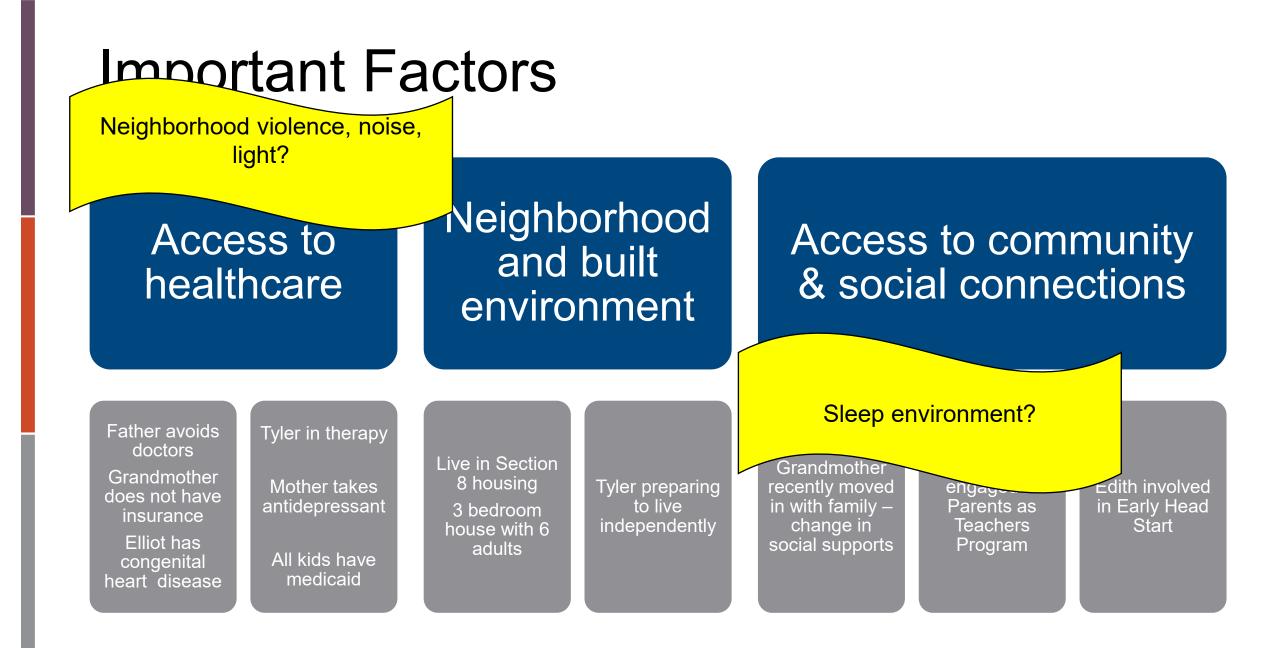


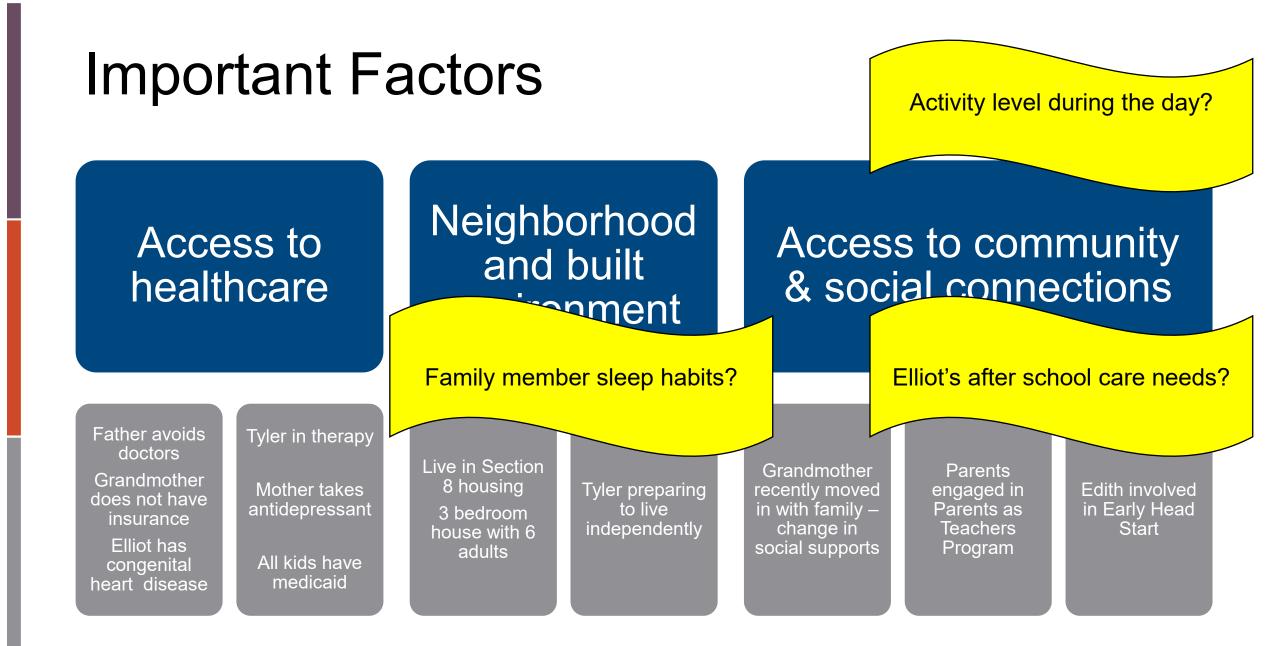
- Mother Claudia
- Father Patrick
- Grandmother Ivonne
- Daughter Tyler (age 16)
- Son Elliot (age 13)
- Daughter Edith (age 2)

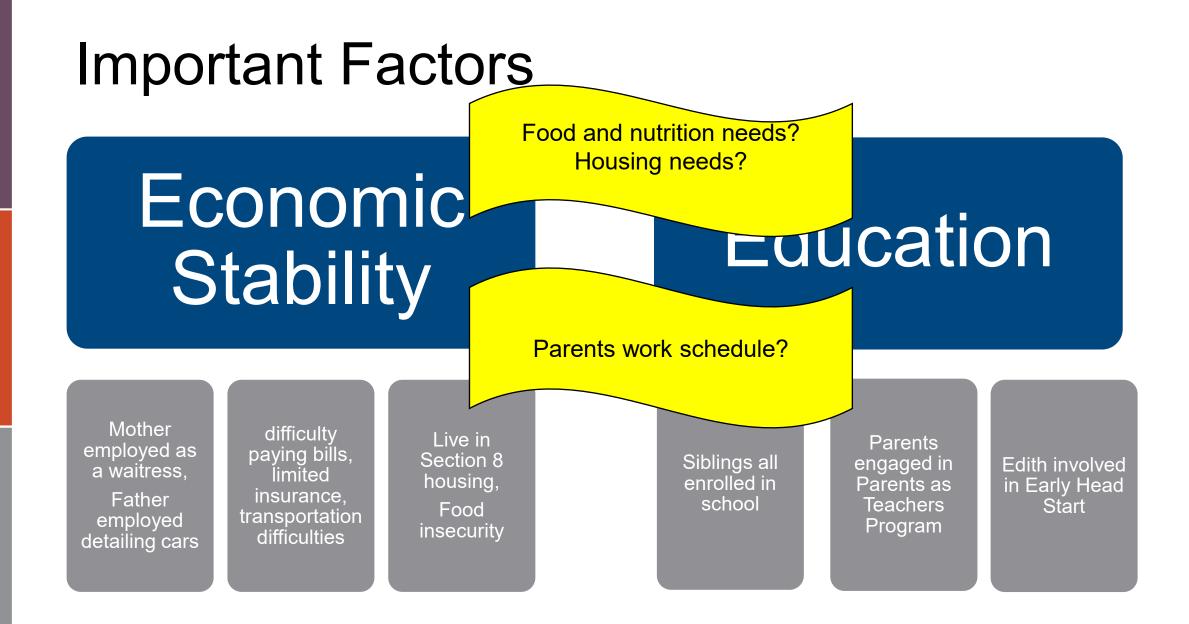
Risk Factors for Poor Sleep

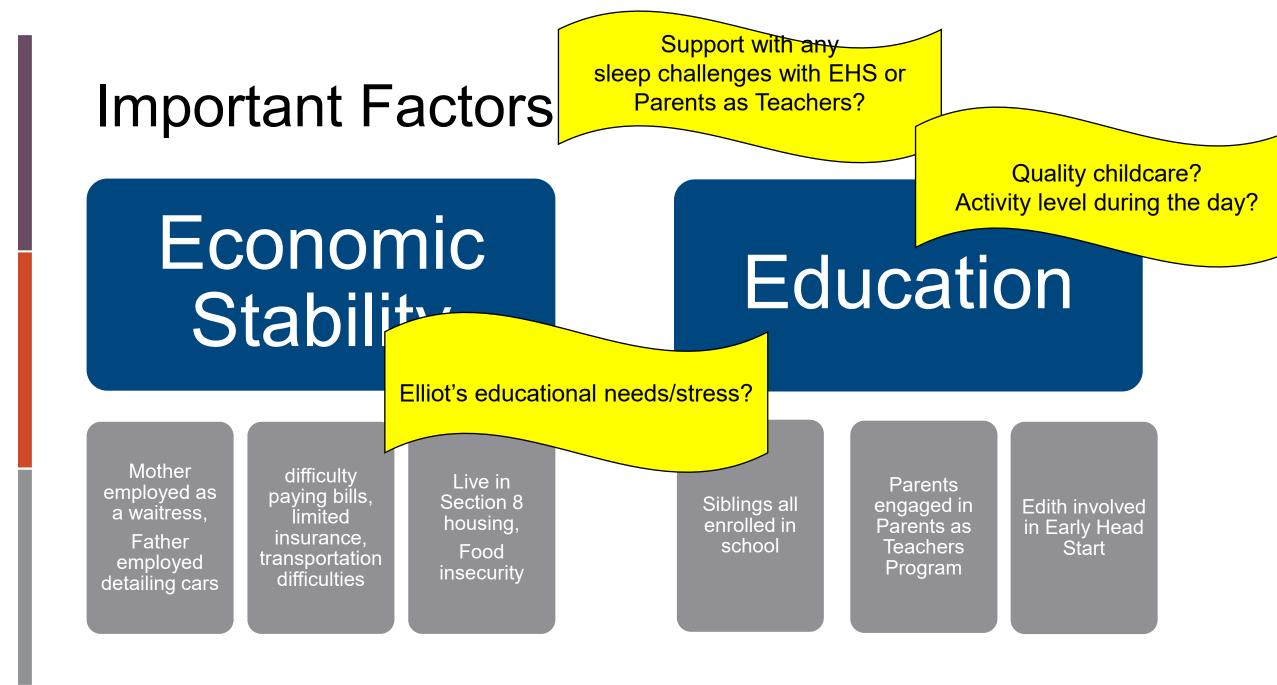














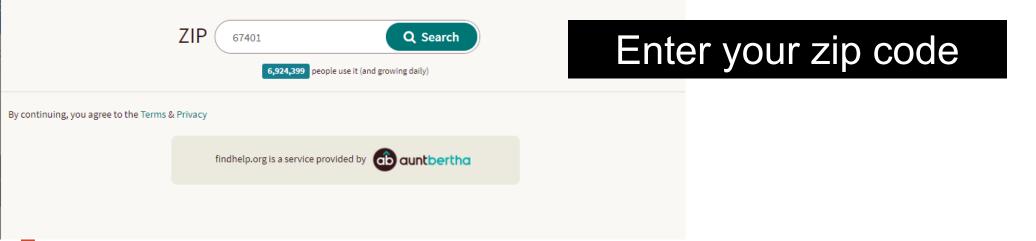
Find **food assistance**, **help paying bills**, and other free or reduced cost programs, including new programs for the COVID-19 pandemic:

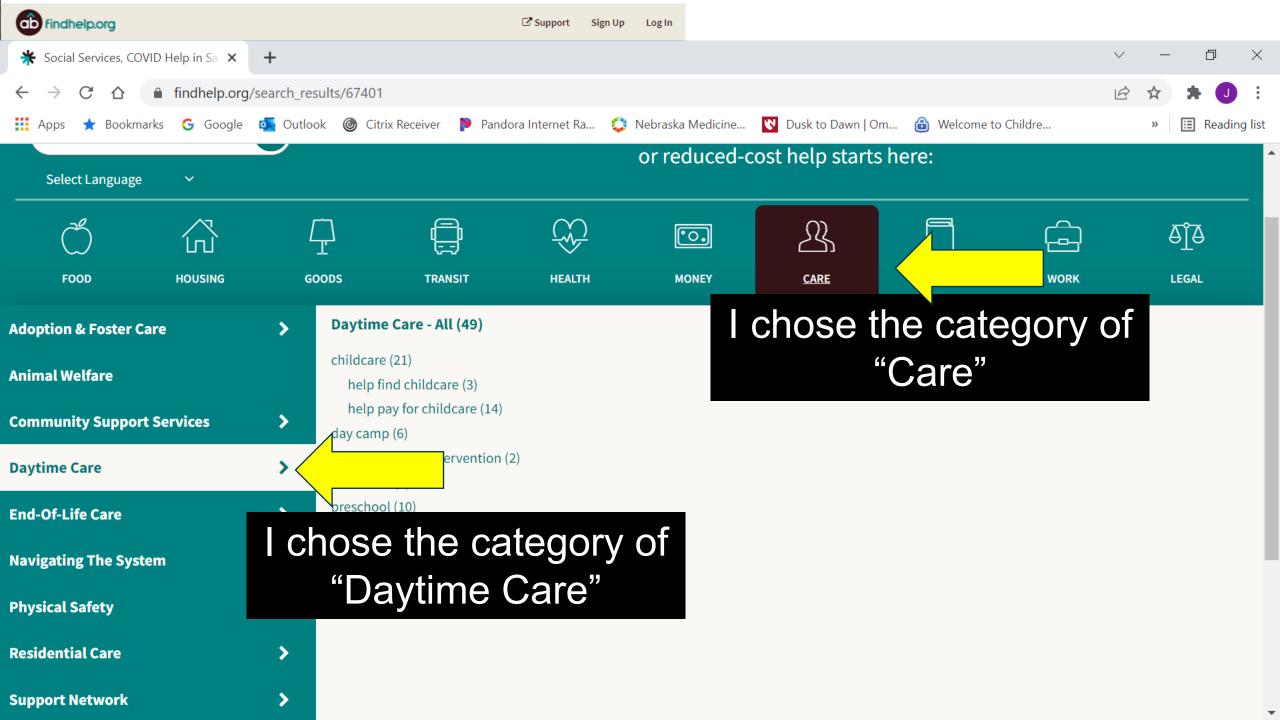
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By continuing, you agree to the Terms & P	rivacy	
	findhelp.org is a service provided by obautbertha	

How to use Find Help



Find **food assistance**, **help paying bills**, and other free or reduced cost programs, including new programs for the COVID-19 pandemic:





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Notice out-of-date information or see a program you work for? Click **Suggest** to share an update or claim your program listing to get access to free tools and data.

] Child Care Subsidy Program

Pandora Internet Ra...

by Kansas Department for Children and Families

Next Steps: The Child Care Subsidy Program provides low-income families with help paying for child care costs from their chosen child care provider. They assist families who are working,... Go to the program's website or call 785-Main Services: help pay for childcare, government benefits 826-8000 (your nearest location). Serving: adults, young adults, teens, seniors, students, employed, families, • 2.44 miles (serves your state) with children, benefit recipients, low-income 901 Westchester Dr, Salina, KS 67401 ○ Closed Today See open hours ∨ T MORE INFO V NEXT STEPS SAVE SHARE NOTES SUGGEST

1

🚺 Nebraska Medicine...

General Assistance

Friends of Man helps individuals needing mobility equipment, prosthetics, glasses, dentures, hearing aids, and much more. This program provides:- Mobility Equipment:...
Main Services: clothing, medical supplies, assistive technology, prostheses, financial assistance, help pay for childcare

Next Steps:

Rain off and on

Search available

resources in the area

by scrolling down

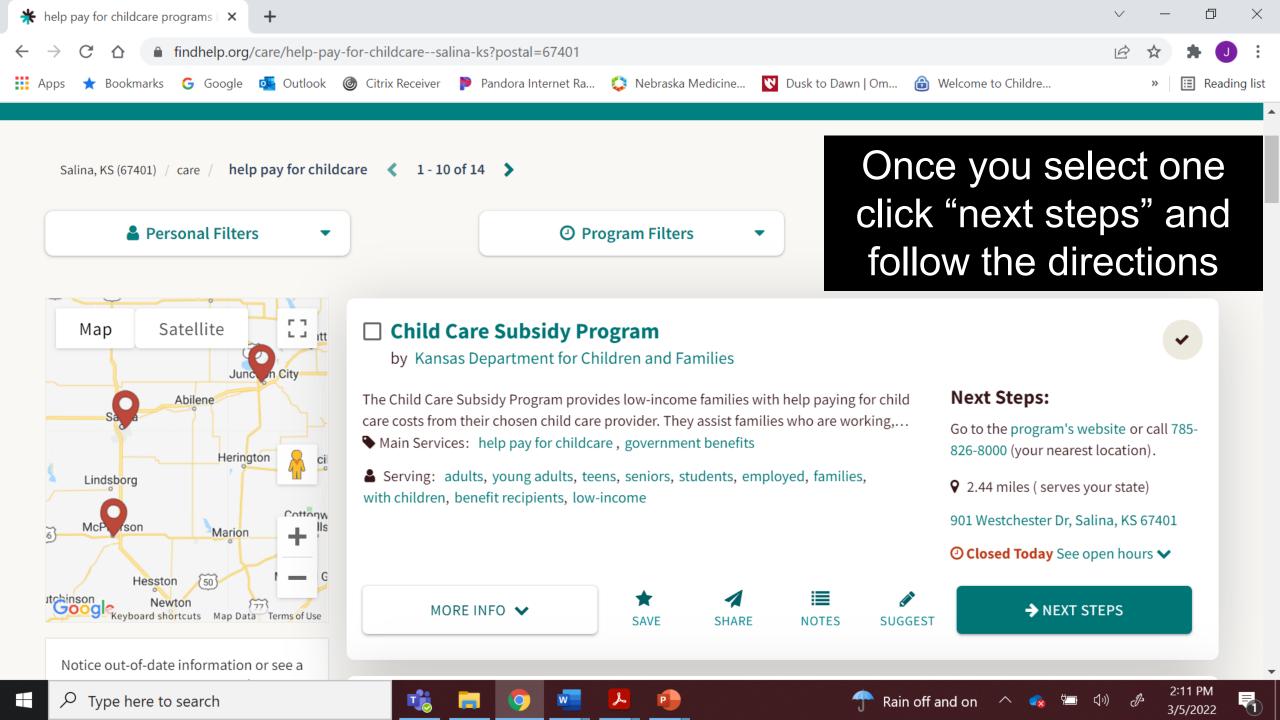
Go to the program's website or get a referral from a referring professionals

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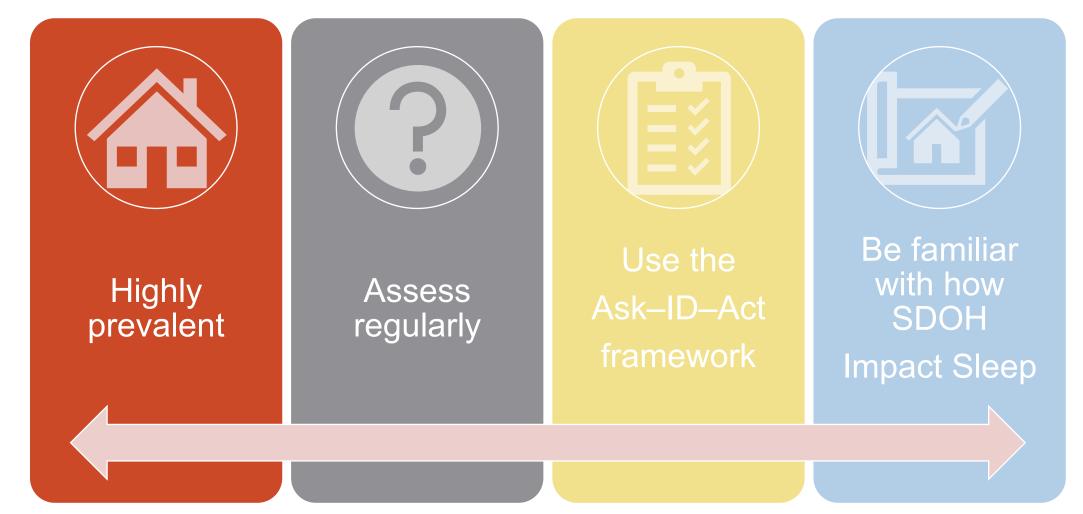
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ling list



Take aways



Resources

- Pediatric Sleep Council: Sleep Advice for Parents & Kids <u>https://www.babysleep.com/</u>
- Mid-America MHTTC https://mhttcnetwork.org/centers/mid-america-mhttc/home
- Find Help: https://www.findhelp.org/ [findhelp.org]