Mid-America (HHS Region 7

HTTC Mental Health Technology Transfer Center Network Funded by Substance Abuse and Mental Health Services Administration

#### Context Clues: Using Social Determinants of Health (SDOH) to Enhance Treatment: Education

Jennifer Burt, PhD, LP

Faculty Trainer

Mid-America MHTTC





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At the time of this publication, Miriam Delphin-Rittmon served as Assistant Secretary for Mental Health and Substance Use and Administrator of SAMHSA. The opinions expressed herein are the views of the speakers and do not reflect the official position of the Department of Health and Human Services (DHHS), or SAMHSA. No official support or endorsement of DHHS, SAMHSA, for the opinions described in this presentation is intended or should be inferred.

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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

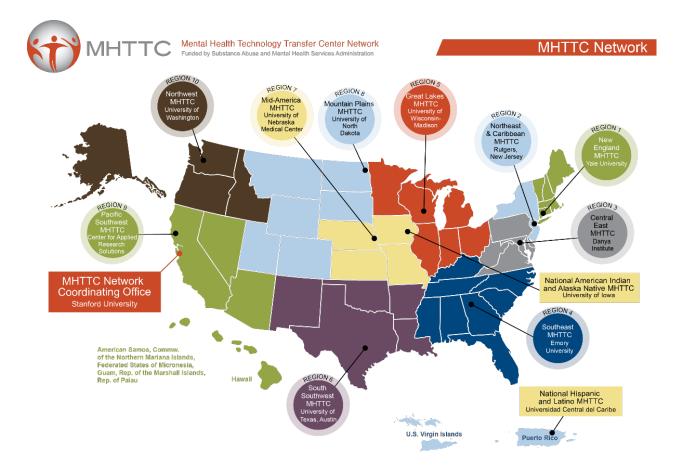
CONSISTENT WITH OUR ACTIONS, POLICIES, AND PRODUCTS

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.

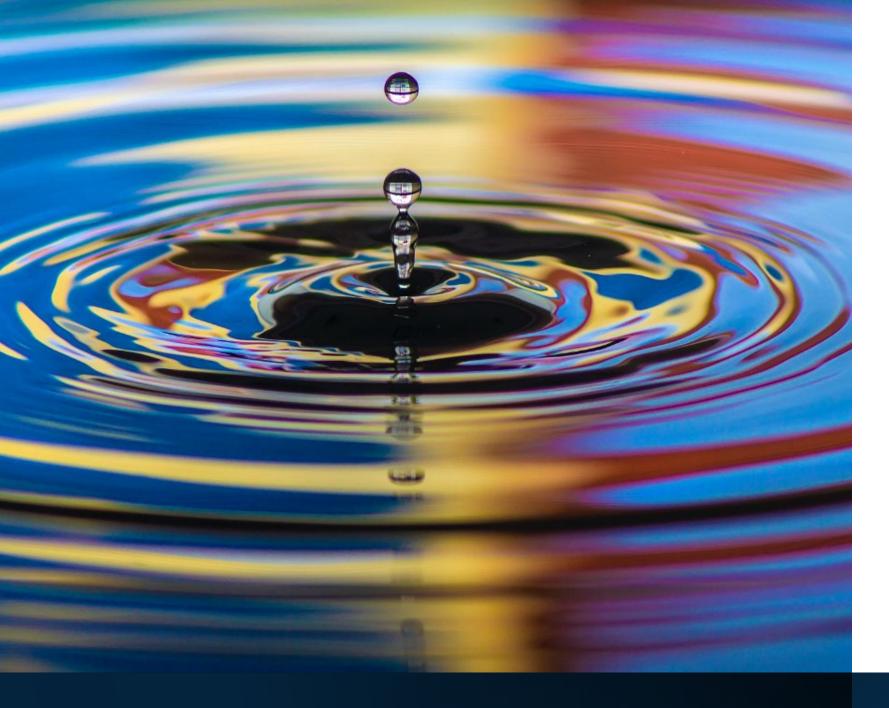
- Missouri, Iowa, Nebraska, and Kansas.
- Free training and technical assistance.
- SAMHSA grant awarded to the Behavioral Health Education Center of Nebraska at University of Nebraska Medical Center. (5 years, \$3.7 million, grant number: H79SM081769)



#### Health Outcomes

Mortality, Morbidity, Life Expectancy, Health Care Expenditures, Health Status, Functional Limitations

#### Education Social and Health Care Neighborhood Economic Stability Access and and Built Community Access and Context Quality Quality Environment • Employment Food Insecurity • Early Childhood Civic Participation Access to Health Access to Foods Education and Housing Instability that Support Care Discrimination **Development** Healthy Eating Access to Primary • Poverty Incarceration Patterns Enrollment in Care Social Cohesion Higher • Crime and Health Literacy Education Violence High School Environmental Graduation Conditions Language and • Quality of Literacy Housing



"Although interventions primarily target a single social determinant, they likely have ripple effects across others."

---Health Affairs 2016

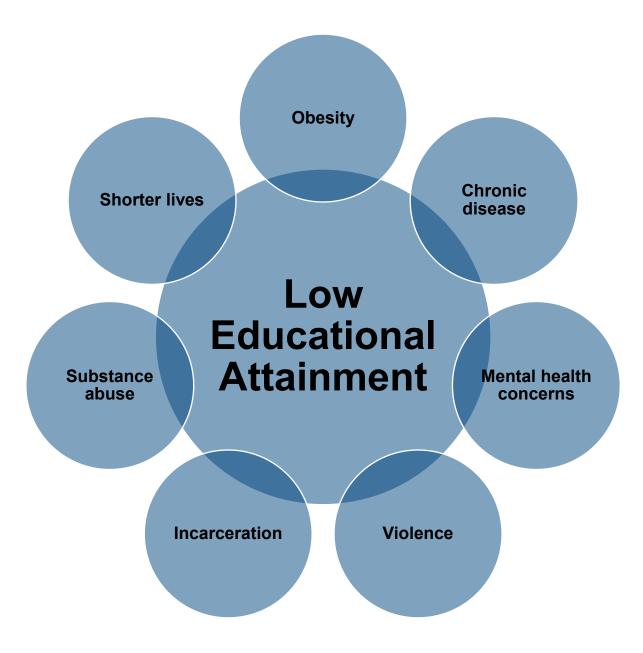
#### EDUCATION

Education can create better opportunities for health.

## Poor health can affect educational outcomes.

HEALTH

Social, economic and physical environments can affect both education and health.





#### Education Access and Quality

Early childhood education and development

Language and literacy

Graduating from high school

Enrollment in higher education

**Educational attainment** 

#### Early Education and Development

- Early childhood education and development and educational opportunities are affected by various environmental and social factors, including:
  - Early life stress
  - Socioeconomic status
  - Relationships with parents and caregivers
  - Access to early education programs

#### How Adverse Childhood Experiences Can Influence Health Throughout Life



Adapted from Felitti et al., 1998 and Whitfield CL at http://www.cbwhit.com/ACEstudy.htm.

# Early Childhood Education

All ECE programs must addresses one or more of the following:

- Literacy
- Numeracy
- Cognitive development
- Socio-emotional development
- Motor skills

Some programs may offer additional components, including:

- Recreation
- Meals
- Health care
- Parent-child relationships
- Parental supports
- Social services



#### Interventions for Early Education and Development

**High Quality Childcare**: Kansas Quality Network Center, Title 20

Early Childhood Education: Head Start

**Home Visiting Programs**: Early Head Start, Nurse Family Partnerships, MIECHV

**Parent Training Programs**: Circle of Security, Child Parent Psychotherapy (CPP), Parent Child Interaction Therapy (PCIT)

**Social Support for Parents**: Kansas Children's Service League, Kansas Parents as Teachers, Families Together, Inc.

# Known Benefits of Early Childhood Education

Increases in maternal employment and income

Reductions in crime, welfare dependency, and child abuse and neglect

Savings from reduced grade retention

Savings in health care costs

Savings in remedial education and childcare costs

Improvement in health outcomes associated with education

Earnings gains associated with high school graduation

Better jobs and higher earnings throughout employment years for children participating in these programs

Source: CDC and Ramon et al. 2018



#### Language and Literacy

Oral

Print

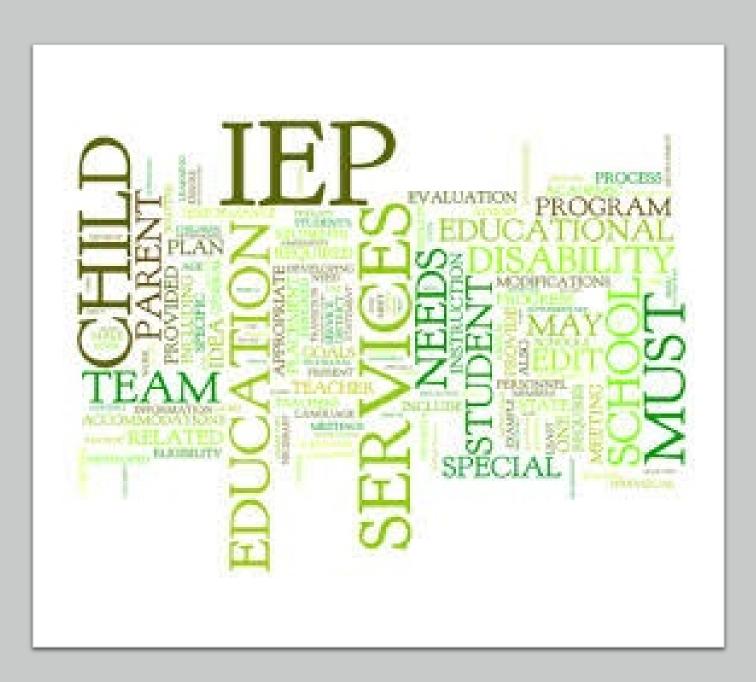
Numeracy

Cultural and Contextual Knowledge

#### Educational Supports: IEP

Kids struggling in school may qualify for support services, allowing them to be taught in a special way, for reasons such as:

- learning disabilities
- ADHD
- emotional or behavioral concerns
- cognitive challenges
- Autism
- Hearing or visual impairment
- Speech or language impairment
- developmental delay
- physical disabilities



## Educational Supports: 504 Plans

- A 504 plan is intended for children with disabilities who <u>do not</u> need or qualify for special education but could benefit from accommodations and/or specialized help in school.
- These plans identify accommodations a child with a disability needs to fully participate in the classroom and sets up ways to help the child succeed.

Examples:

Preferential seating



- An allergen-free environment
- Extended time/quiet space
- Technology to support needs
- Reduction in homework
- Providing a tutor after school to help with assignments or organization
- Requiring teachers and aides to receive training relating to your child's particular disability

#### Health Literacy

"The degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions."

----Healthy People 2010

### Warning Signs of Poor Health Literacy

Nonadherence with treatment regimes

Reoccurence of the same problems

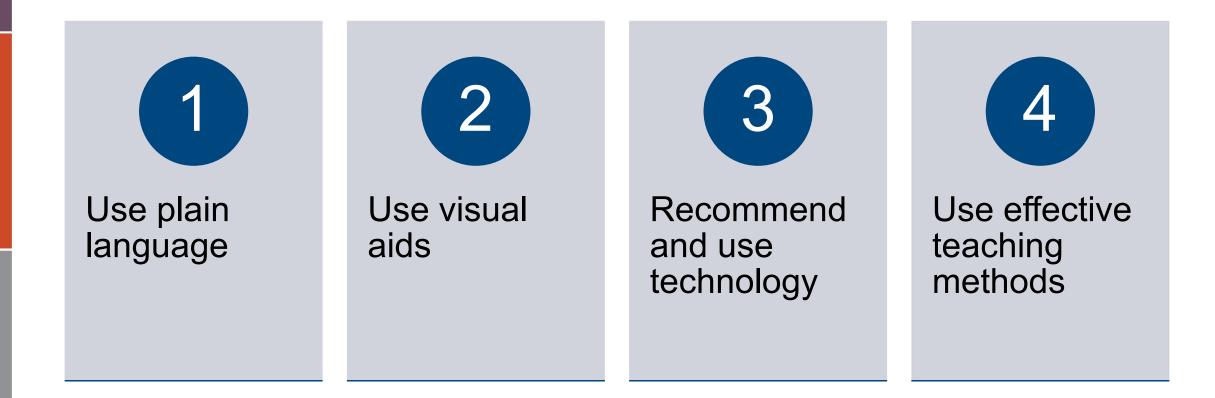
Over-use, under-use, and misuse of health care system

Over-representation of vulnerable populations in acute care facilities

Poor medication management

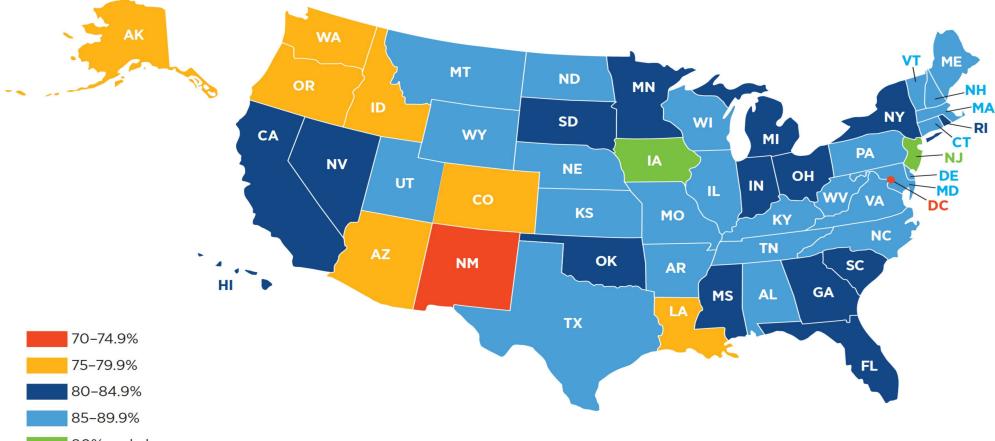
Difficulty making informed health decisions

## Simple Health Literacy Tips



#### Graduate High School







90% and above

### Interventions to Increase Graduation Rates



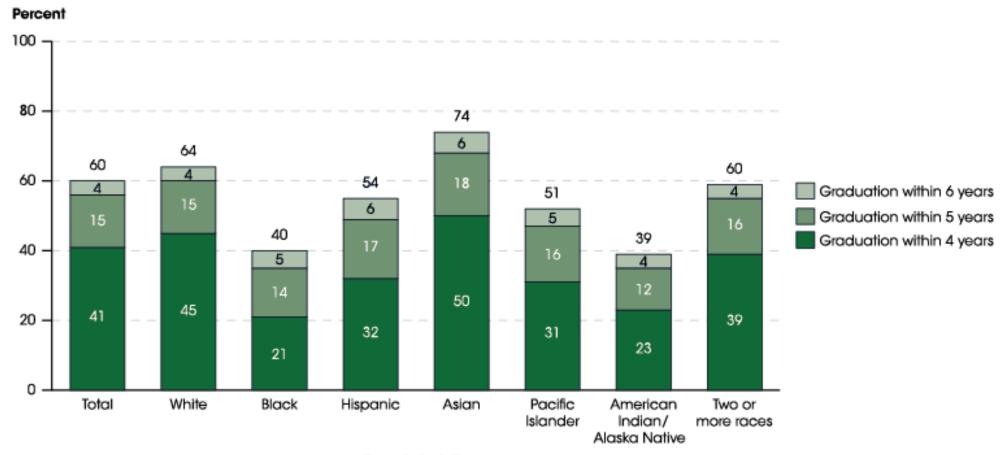


ASU Center for Educational Excellence, 2019

#### Higher Education

- Defined as any type of education after high school including:
  - Certificate programs
  - 2-year college
  - 4-year college
  - Graduate programs
  - Professional programs

#### **Higher Education Graduation Rates**



Race/ethnicity

#### **Educational Attainment**

Compared to those with a college education, Americans with less education:

**Die earlier** 

Live with greater illness

Generate higher medical care costs

Are less productive at work

Experience more psychological distress

Have less healthy lifestyles



Higher Educational Attainment Benefits

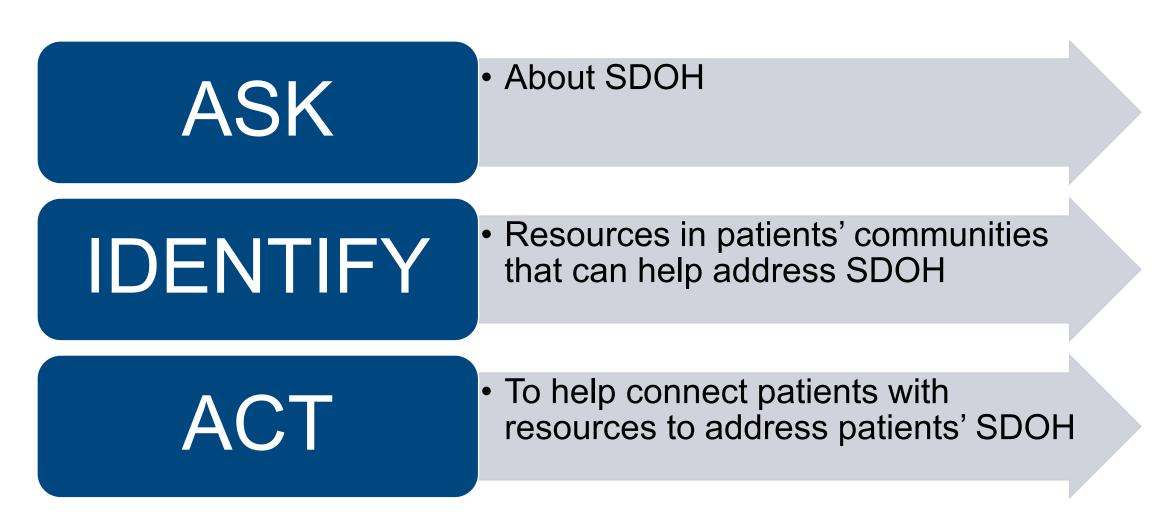
Income and	Social and	Health	Healthier
Resources	Psychological	Behaviors	Neighborhoods
<ul> <li>Better jobs</li> <li>Higher earnings</li> <li>Resources for better health</li> </ul>	<ul> <li>Reduced stress</li> <li>Social and psychological skills</li> <li>Social networks</li> </ul>	<ul> <li>Knowledge</li> <li>Skills</li> </ul>	<ul> <li>Supermarkets</li> <li>Green spaces</li> <li>Access to primary care</li> <li>Reduced crime</li> <li>Higher quality schools</li> <li>More opportunities for employment</li> <li>Reduced toxins in environment</li> <li>More political influence</li> </ul>



Strategies to Strengthen Educational Attainment

- Dual Enrollment programs in high school
- Support with financial aid and assistance
- Mentoring programs for at-risk students
- Develop milestones or pathways
- Hybrid models

#### AAFP's Framework to Address SDOH





## PRAPARE

2-item Education Screener

## Screening

 PRAPARE: Protocol for Responding to and Assessing Patient Assets, Risks, and Experiences



#### 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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#### PRAPARE

#2: Which race(s) are you? Check all that apply

#3: At any point in the past 2 years, has season or migrant farm work been your or your family's main source of income?

#5: What language are you most comfortable speaking?

#10: What is the highest level of school that you have finished?

#14 In the past year, have you or any family members you live with been unable to get any of the following when it was really needed? Check all that apply. **\*\*Note Child Care** 

#### **Screening Questions**





Do problems getting child care make it difficult for you to work or study? Do you have a high school diploma?

#### Z-codes

Z55	Problems related to education and literacy	Z62	Problems related to upbringing
Z56	Problems related to employment and unemployment	Z63	Other problems related to primary support group, including family circumstances
	Z56.0 Unemployment, unspecified	Z64	Problems related to certain psychosocial circumstances
Z57	Occupational exposure to risk factors	Z65	Problems related to other psychosocial circumstances
Z59	Problems related to housing and economic circumstances	Z68	Body Mass Index (BMI)
	Z59.0 Homelessness	Z72	Problems related to lifestyle
	Z59.1 Inadequate housing		Z72.4 Inappropriate diet and eating habits
	Z59.4 Lack of adequate food and safe drinking water	Z74	Problems related to care provider dependency
	Z59. 5 Extreme poverty	Z75	Problems related to medical facilities and other health care
	Z59.6 Low income	Z77	Other contact with and (suspected) exposures hazardous to health
	Z59.7 Insufficient social insurance and welfare support	Z82	Family history of certain disabilities and chronic disease (leading to disablement)
	Z59.8 Other problems related to housing and economic circumstances	Z91	Personal risk factors, not elsewhere classified
Z60	Problems related to social environment		Z91.1 Patient's noncompliance with medical treatment and regimen – Z91.11 Patient's noncompliance with dietary regimen
	Z60.2 Problems related to living alone		



Z55.0, Illiteracy and low-level literacy

Z55.1, Schooling unavailable or unattainable

Z55.2, Failed school examinations

Z55.3, Underachievement in school

Z55.4, Educational maladjustment and discord with teachers and classmates

Z55.8, Other problems related to education and literacy

Z55.9, Problems related to education and literacy, unspecified



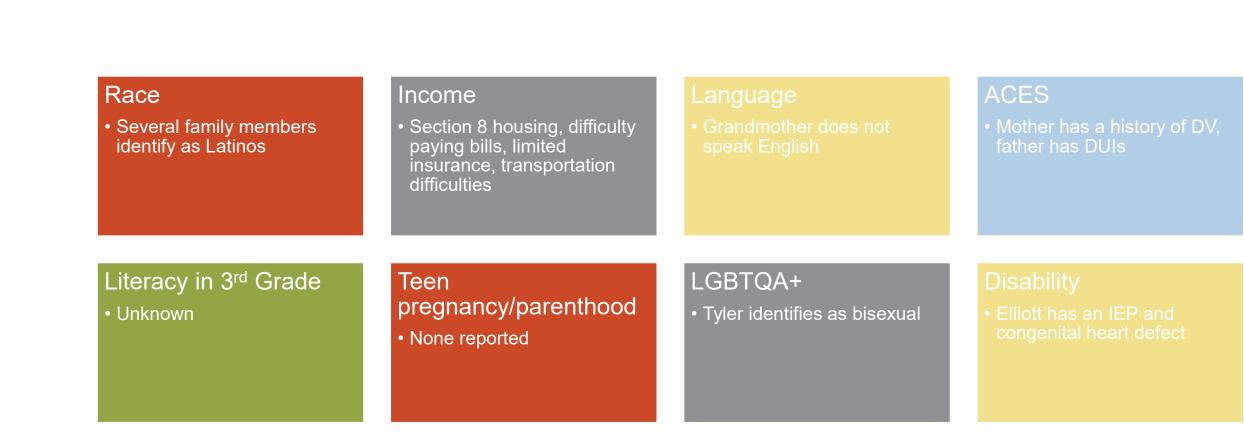






- Mother Claudia
- Father Patrick
- Grandmother Ivonne
- Daughter Tyler (age 16)
- Son Elliot (age 13)
- Daughter Edith (age 2)

## **Risk Factors for Poor Educational Attainment**



## **Protective Factors for Educational Attainment**

## Early Childhood Education

 Edith enrolled in Early Head Start, meeting milestones, Parents as Teachers program

## Language and Literacy

 Family is receiving support-BH, employment, parents as teachers, EHS

## Graduation from High School

• Mother graduated HS, Tyler on target to graduate HS

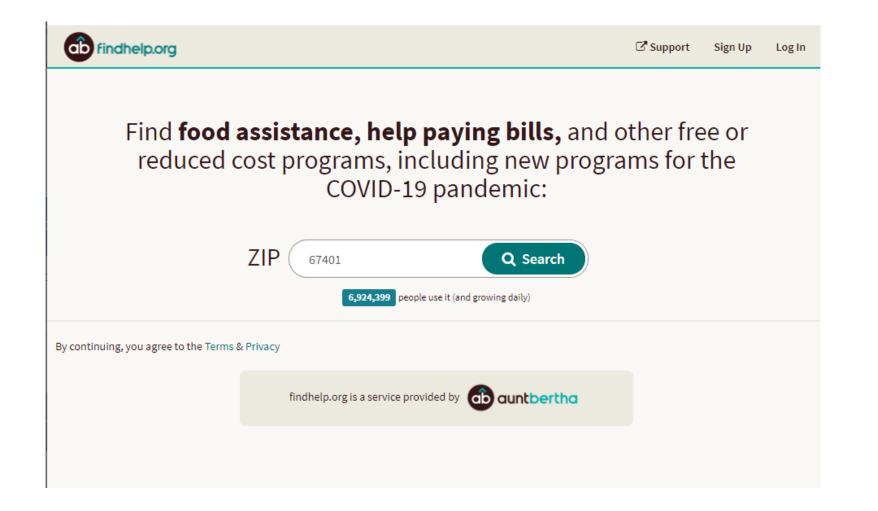
## Enrollment in Higher Education

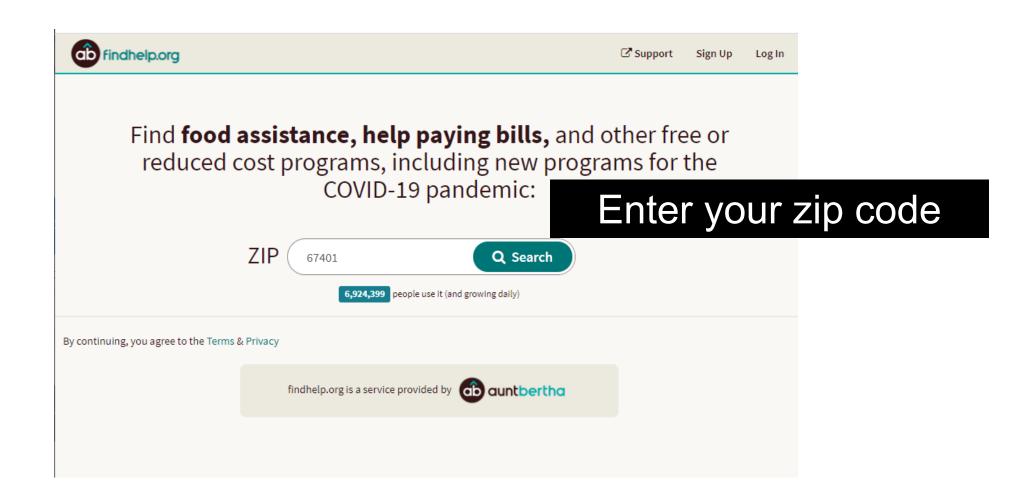
• Father enrolled in Associate Degree and finished 1 yr, Tyler preparing for college

### Educational Attainment

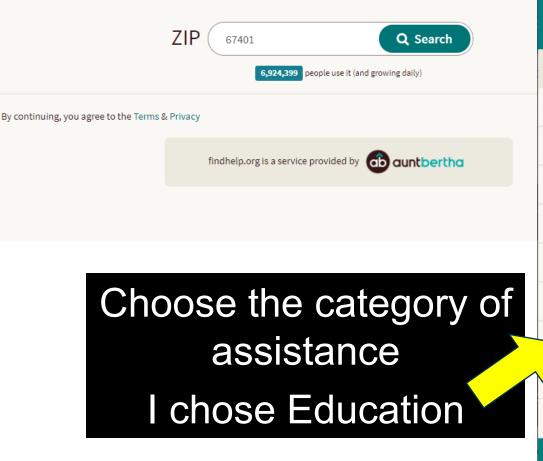
 GED: Dad High School Education: Mom

# How to use Aunt Bertha



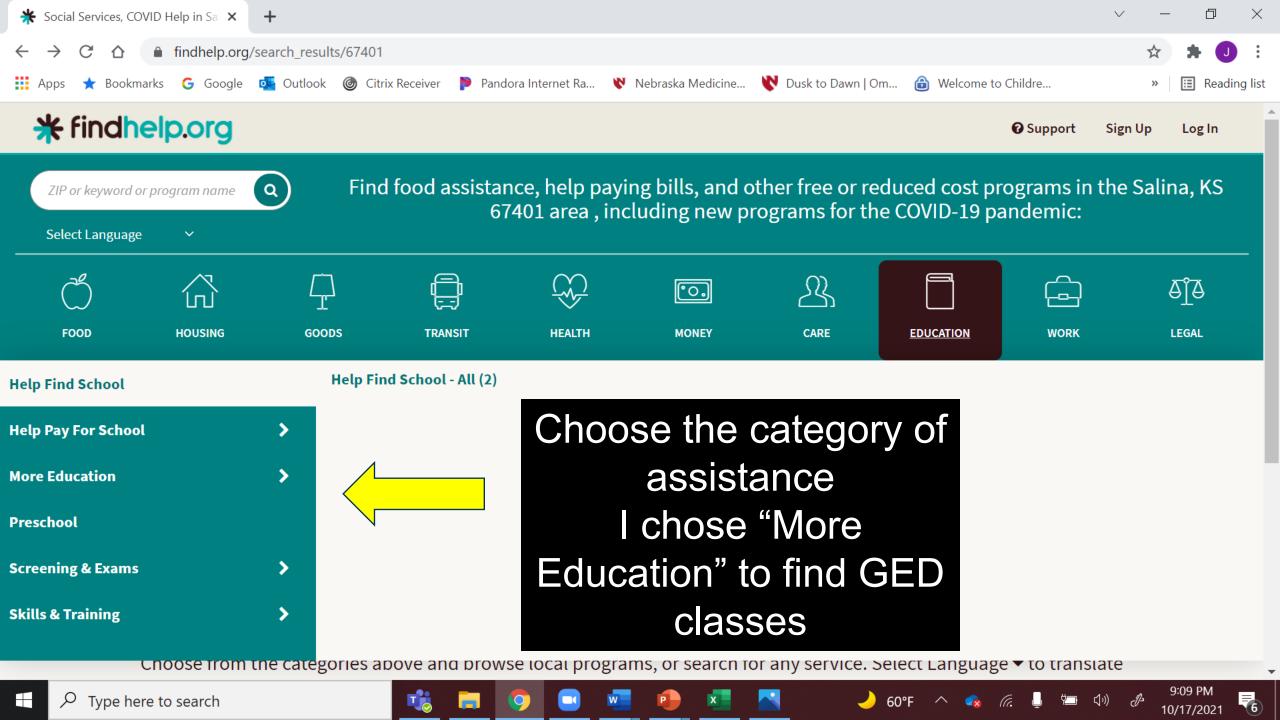


# Find **food assistance**, **help paying bills**, and othe reduced cost programs, including new programs COVID-19 pandemic:

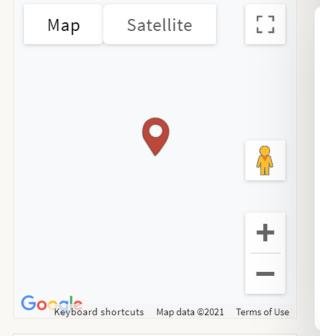


## Find food assistance, help paying bills, and other free or reduced cost programs in Salina, KS 67401 , including new programs for the COVID-19 pandemic:

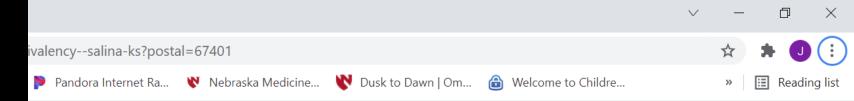
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Select Language		
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😚 Health		>
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# Search the available resources in the area



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.



## SouthWinds Academy

#### by USD 403 Otis-Bison

SouthWinds Academy, a public virtual school within the Otis-Bison school district, is designed to meet the individual needs of each student and help students succeed

Services: more education, ged/high-school equivalency

Serving: teens, children, limited mobility, students, families, single parent, parents

\*

SAVE

MORE INFO 🗸



Next Steps:

Call 620-755-8918 or go to the program's website.

Serves your state

SUGGEST

Olosed Today See open hours ▼

➔ NEXT STEPS

Online GED Prep

#### by Refugee Center Online (RCO)

Completing this GED<sup>®</sup>/HiSet<sup>™</sup> preparation class will help you be ready to earn your high school equivalency diploma. The diploma shows you have the same knowledge as

Services: ged/high-school equivalency

Serving: adults, young adults, teens, seniors, immigrants, refugees, limited english

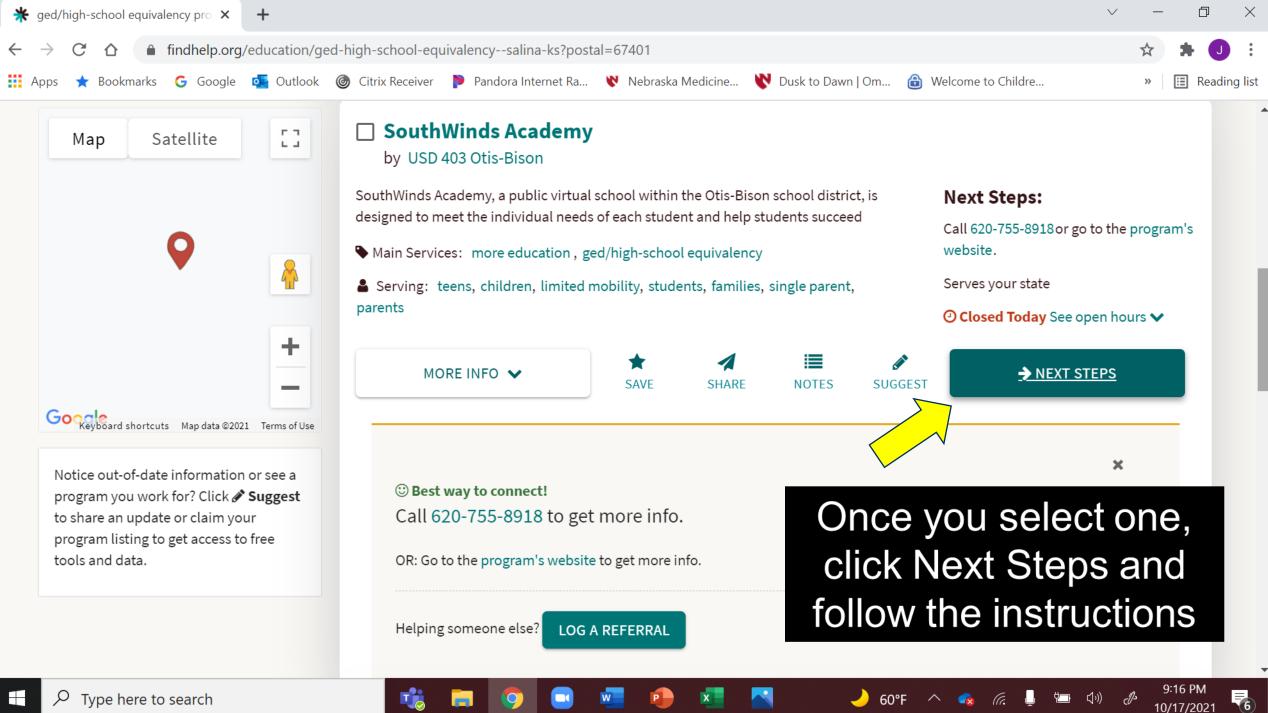
Next Steps:

Apply on their website 🗷.

Serves nationwide

Open Now : Open 24 Hours

0.07 DM



10/17/2021

## **National Programs**



Parent Training and Information Center

## Local Resources















## Take Aways



Educational attainment has a ripple effect on all of the SDOH



Don't assume families are noncompliant with medical recommendationsassess health literacy and make accommodations



Use the Ask – Identify – Act framework



Be familiar with available resources and support families to access needed resources to strengthen education and literacy

## **Selected References**

Barnett, W., & Friedmann-Krauss, A. (2013). Early childhood education: Pathways to better success. National Institute for Early Education Research Brief. Brach, C., Keller, D., Hernandez, L.M., Baur, C., Parker, R., Dreyer, B., Schyve, P., Lemerise, A.J., & Schillinger, D. (2012). Ten attributes of health literate health care organizations. NAM Perspectives. Discussion Paper, National Academy of Medicine, Washington, DC. <u>https://doi.org/10.31478/201206a</u> Centers for Disease Control and Prevention, Social Determinants of Health. https://www.cdc.gov/socialdeterminants/index.htm Chen, D. (2019). Research-based strategies to improve high school graduation rates. Arizona State University Decision Center for Educational Excellence. Ramon, I., Chattopadhyay, S., Barnett W., & Hahn, R. (2018). Early childhood education to promote health equity: A community guide economic review. Journal of Public Health Management and Practice, 24, e8-e15.