

# Social Determinants in a Pediatric Clinic Setting: A Promising Methodology

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# Social Determinants of Health (SDOH)



Richard Wilkinson, British social epidemiologist, author and advocate, visiting Wright State University, 2016.

Background

The background features a white space with abstract blue geometric shapes on the right side. These shapes include overlapping triangles and polygons in various shades of blue, ranging from light sky blue to dark navy blue. The shapes are layered, creating a sense of depth and movement.

# Social Determinants of Health (SDOH)



Healthy People 2020 framework model

# Social Determinants of Health

- SDOH is root cause of many chronic diseases
- 60% of preventable deaths caused by modifiable factors (Bradley, et al; 2016)
- Nearly half (43%) of all poor children live in the United States (Chung, et al; 2016)
- Up to 83% of children seen in a well-child pediatric office visit present with at least one unmet social need (Colvin, et al; 2016)

# Methods

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. The shapes are primarily triangles and polygons, creating a dynamic, layered effect. The overall composition is clean and modern, with the text 'Methods' positioned on the left side of the frame.

# Study Sample

- ▶ Cross sectional survey design study
- ▶ Conducted at Dayton Children's Hospital
- ▶ Children's Health Clinic (primary care practice)
- ▶ October 3, 2016 to December 1, 2016
- ▶ N=645 pediatric patients
- ▶ Ages 3 days to 18 years
- ▶ 331 males

# Screening Tool



Patient Name: \_\_\_\_\_  
 Date of Birth: \_\_\_\_\_  
 OR Patient Label

## Dayton Children's Family Resource Connection

Dayton Children's connects patients with the community resources they need to be healthy.  
 Please check yes or no if you would like help getting connected to services listed below.  
 Forms should be completed by the patient's guardian and returned to your physician.

		YES	NO
	I want help getting <b>food</b> for myself / my family or applying for assistance (SNAP, WIC)	<input type="checkbox"/>	<input type="checkbox"/>
	I worry my home is <b>unhealthy</b> or I might become <b>homeless</b>	<input type="checkbox"/>	<input type="checkbox"/>
	I have received a disconnection notice, or have trouble paying my <b>utility</b> bills (gas, electric, phone)	<input type="checkbox"/>	<input type="checkbox"/>
	I need help finding employment or <b>job training</b>	<input type="checkbox"/>	<input type="checkbox"/>
	I need help with <b>health care</b> (insurance, medical, dental, vision, resources) for myself or my family	<input type="checkbox"/>	<input type="checkbox"/>
	I want to find <b>adult education</b> classes (ESOL, GED, parenting)	<input type="checkbox"/>	<input type="checkbox"/>
	I want to apply for public <b>benefits</b> (cash benefits, SSI/SSDI)	<input type="checkbox"/>	<input type="checkbox"/>
	I want to find <b>child-related activities</b> or <b>educational</b> support for my child(ren)	<input type="checkbox"/>	<input type="checkbox"/>
	I need help getting <b>diapers, clothing, car seats, school supplies</b> , or household items	<input type="checkbox"/>	<input type="checkbox"/>
	I need help with <b>transportation</b> to my appointments	<input type="checkbox"/>	<input type="checkbox"/>

If you checked "yes" to any of the needs, an advocate from the Family Resource Connection will call you at the number you provide below:

PRINT GUARDIAN NAME: \_\_\_\_\_ BEST TIME TO CALL: \_\_\_\_\_

PHONE: \_\_\_\_\_ PREFERRED LANGUAGE: \_\_\_\_\_

Please return to your physician. The Family Resource Connection may be contacted at (937) 641-3700.

FOR FAMILY RESOURCE CONNECTION USE ONLY	
Date Received: _____	SW Database: _____
Referring Provider: _____	Advocate: _____



# Results

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# Results

- 34.3% of enrolled families ( $N=221$ ) reported at least one unmet need
- 444 total unmet needs reported; 2.01 needs per child
- 39.7% of those screened had at least one child aged 2 or younger
- 61.9% of the enrolled children were ages 0 to 6 years

# Demographics

- ▶ 51.3% male (N=331)
- ▶ Median age = 5.77 years
- ▶ Age categories:

0-2 years	256 (39.7%)
3-6 years	143 (22.2%)
7-12 years	145 (22.5%)
13-18 years	101 (15.7%)
  
- ▶ Zero needs reported: 424 (65.7%)
- ▶ One or more needs reported: 221 (34.3%)
- ▶ Two or more needs reported: 114 (17.7%)
- ▶ Three or more needs reported: 56 (8.7%)

# Top Four Needs

- ▶ 1. Child care



- ▶ 2. Commodities



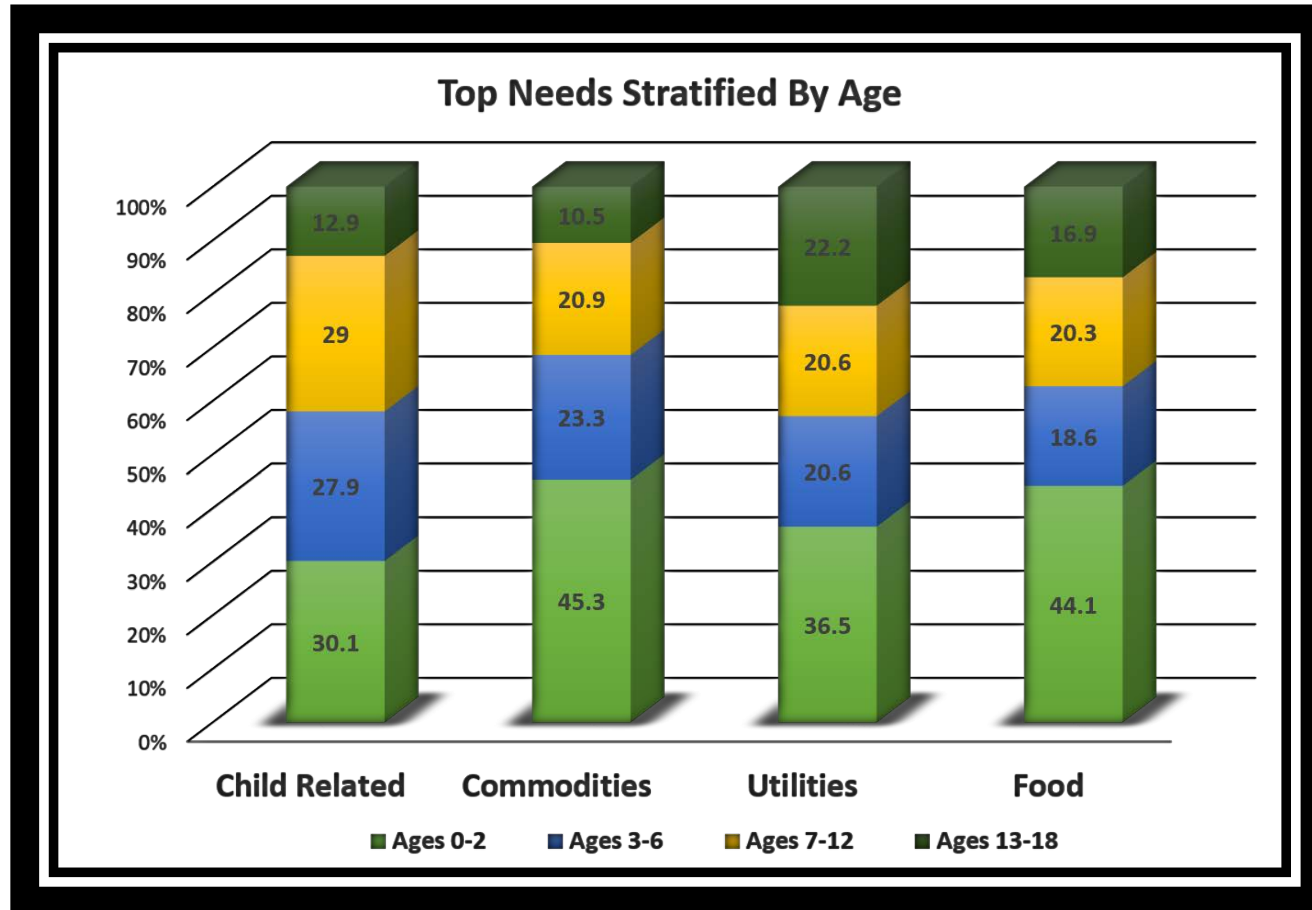
- ▶ 3. Utility assistance



- ▶ 4. Food



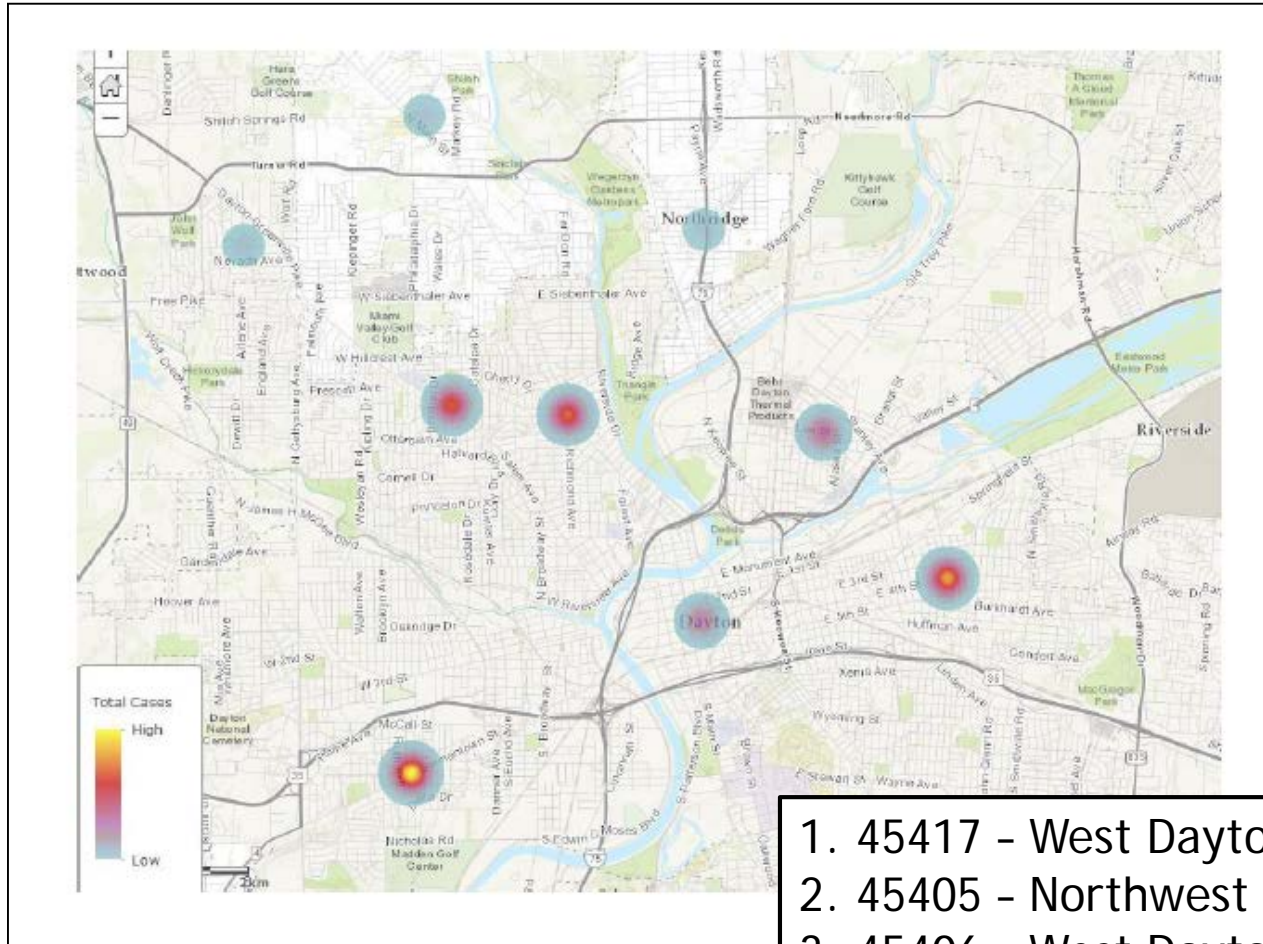
# Top Needs Stratified By Age



# Results

- Nearly all (99.1%) of enrolled families were previously unidentified in the hospital's social work referral system
- The greatest needs were predominantly required by the youngest children, positioning them as the most at-risk for long-term negative effects
- Nearly two thirds of all needs were reported from families with children ages six and under

# Zip Code Mapping of Greatest Needs



# Discussion

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the frame, creating a modern, layered effect against the white background.



# Conclusions

- ▶ More than 1/3 of screened families indicated unmet needs (34.3%)
- ▶ Nearly all (99.1%) enrolled families were previously unidentified
- ▶ Most prevalent needs: child care, commodities, utility assistance and food insecurity
- ▶ Infants ages birth to 2 years comprise largest age category of children in families with unmet needs
- ▶ Essential resources needed by many families in greater Dayton, OH area

# Program Annual Report

- ▶ July, 2016-June, 2017 program period evaluation
- ▶ 3,234 total screenings completed
- ▶ Positive screens = 34.8% (N=1,125 families)
- ▶ 1,000+ families engaged in program (30.9%)
- ▶ 700+ resource connections extended to families

# Acknowledgements

- Dayton Children's Hospital
- Wright State University, Boonshoft School of Medicine
- Health Leads
- Jessica Saunders, Director of the Center for Child Health and Wellness, DCH
- Kimberly Budig, Manager of the Family Resource Center, DCH

# Sources

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