



# Medicaid Advocacy & Hospital Based Violence Intervention: A Mixed Methods Analysis

Elizabeth Mavis, BA

Carisma Jano, MS

Mark Foxall, Ph.D.

Gaylene Armstrong, Ph.D.

Charity Evans, M.D.

Ashley Campbell, MPH

UNIVERSITY OF  
**Nebraska**  
Omaha

# Disclaimer

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# Agenda

- ▶ Background
- ▶ Research Questions
- ▶ Methodology
- ▶ Data Analysis
- ▶ Results
- ▶ Discussion



# Background



## **Purpose of HVIPs**

Hospital-Based Violence Intervention Programs (HVIPs) address complex needs of victims of violence.



## **Medicaid Advocacy**

HVIPs promote Medicaid enrollment to help victims secure coverage and ensure long-term stability and continuity of care.



## **Research Gap**

Despite growing recognition, empirical research is limited on how Medicaid advocacy impacts health outcomes and hospital finances.

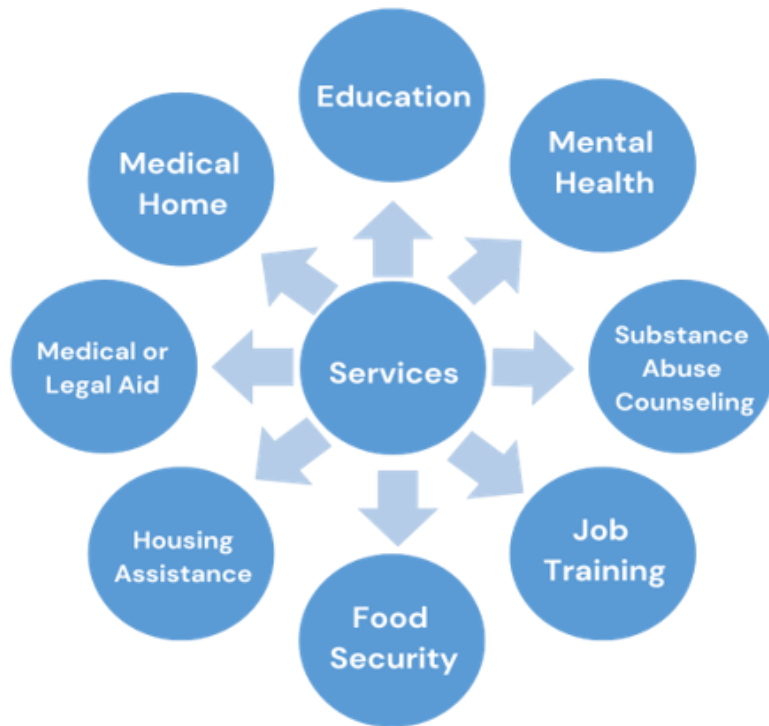


## **Study Overview**

Study examines ENCOMPASS-Omaha to assess the influence of Medicaid enrollment on patient outcomes and financial performance.



# ENCOMPASS



- ▶ ENCOMPASS is a hospital-based violence intervention program (HVIP) based at the University of Nebraska Medical Center, a Level 1 Trauma Center in Omaha, NE.
- ▶ Program connects patients to medical, mental health, and social services, including assistance with Medicaid enrollment.



# Medicaid Eligibility and Coverage in Nebraska

## Basic Eligibility Requirements:

- ▶ **Eligibility:** Nebraska residents who are U.S. citizens or legal immigrants.
- ▶ **Groups covered:** Children, low-income adults, pregnant women, people with disabilities, former foster youth (up to 26).
- ▶ **Income/asset limits:**
  - ▶ Adults ≤138% FPL
  - ▶ \$4,000 (single), \$6,000 (couple); excludes home, car, basic belongings.

## Challenges and Barriers:

- ▶ **COVID-19 Expansion:** Medicaid coverage expanded in 2020.
- ▶ **Post-COVID Unwinding:** Millions lost coverage, disproportionately affecting minorities.

**\*\*Source:** National Health Law Program; Nebraska DHHS – Medicaid Eligibility



# Medicaid Advocacy

Medicaid advocacy in hospital-based violence intervention programs (HVIPs) can help mitigate coverage concerns by:

**Advancing Health Equity**

**Connecting Victims to Coverage**

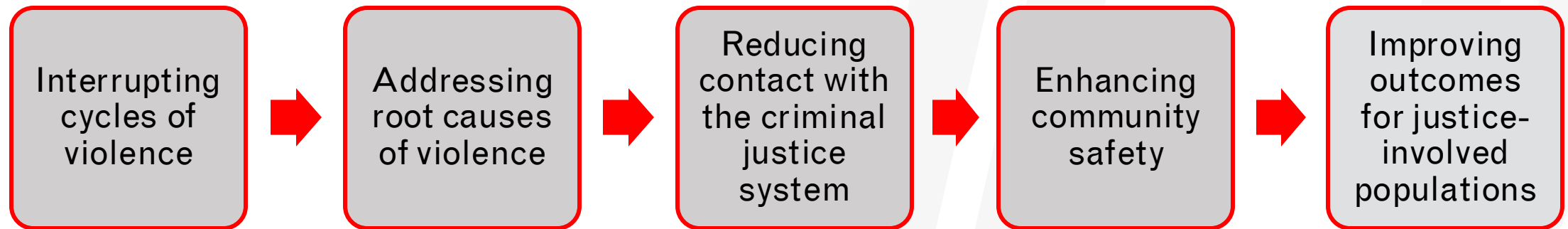
**Preventing Loss of Care**

**Improving Recovery Outcomes**



# Criminal Justice Impact

Medicaid advocacy and hospital-based violence intervention programs (HVIPs) can have a positive criminal justice impact by:





# Research Questions

1. Does Encompass engagement increase Medicaid enrollment?
2. Does Encompass engagement increase hospital revenue?
3. What are the perceptions of Encompass participants on Medicaid advocacy and enrollment in the program?



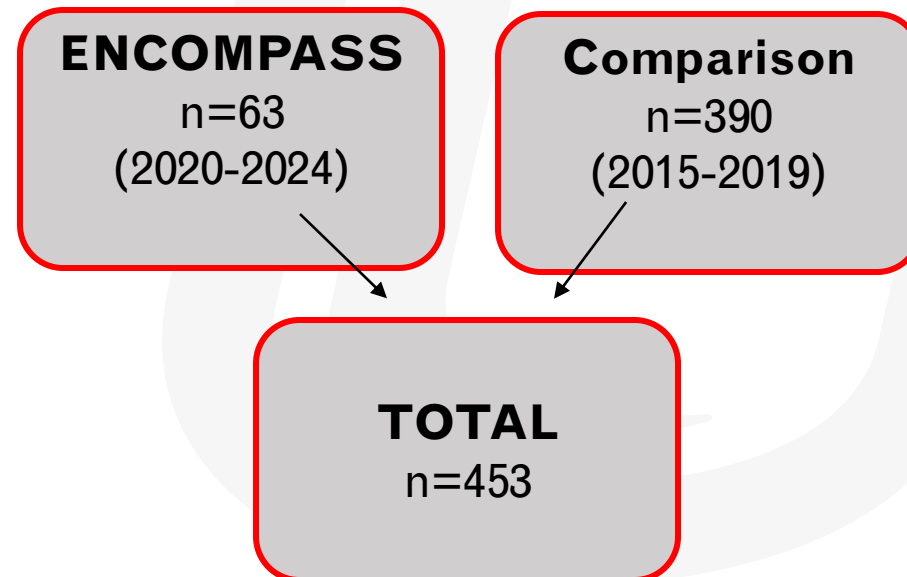
# Data and Sampling

## ► Data Sources:

- Trauma Registry Data (TRD), Medical Transaction Data (MTD), and Census Bureau Data

## ► Exclusion Criteria:

- Individuals with no home address
- Individuals outside Omaha city limits
- Individuals discharged to correctional facilities



# Data and Sampling

## ► Propensity Score Matching (PSM):

### ► Method: Logistic regression to estimate propensity scores on:

- Injury Severity Score (ISS)
- Firearm-related injuries
- Concentrated Disadvantage Index (CDI)
- Demographics

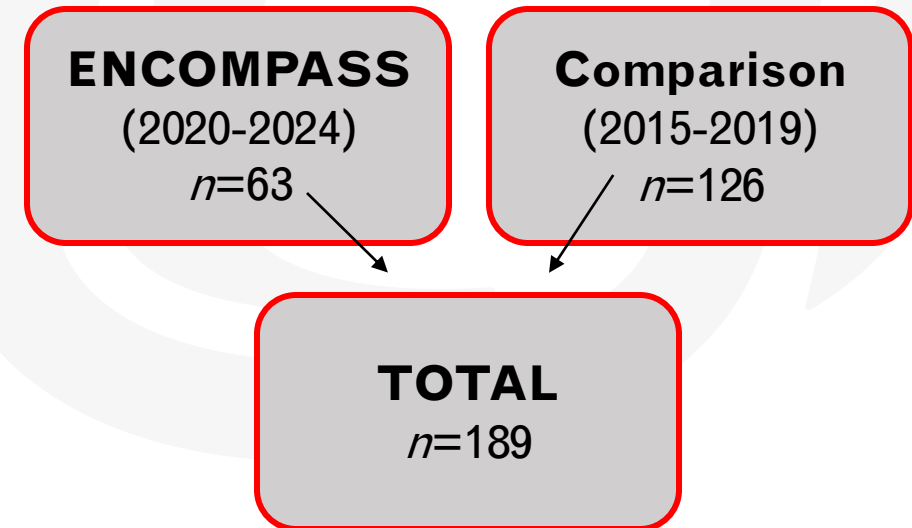
### ► Matching: One to many, nearest neighbor matching without replacement

## ► Final Sample with PSM:

### ► ENCOMPASS group ( $n = 63$ )

### ► Comparison group ( $n = 126$ )

- ISS = ~10
- 63.5% firearm injury
- CDI = .08
- 84% male, ~ 50% non-White, 79% historically redlined area



# Measures and Analysis

## Measures:

- ▶ Insurance coverage: Recoded into Medicaid, Commercial, Self-Pay
- ▶ Expected Net Revenue (ENR) (in dollars): Expected earnings after deductions
- ▶ Contribution Margin (CM) (in dollars): Remaining revenue after variable costs

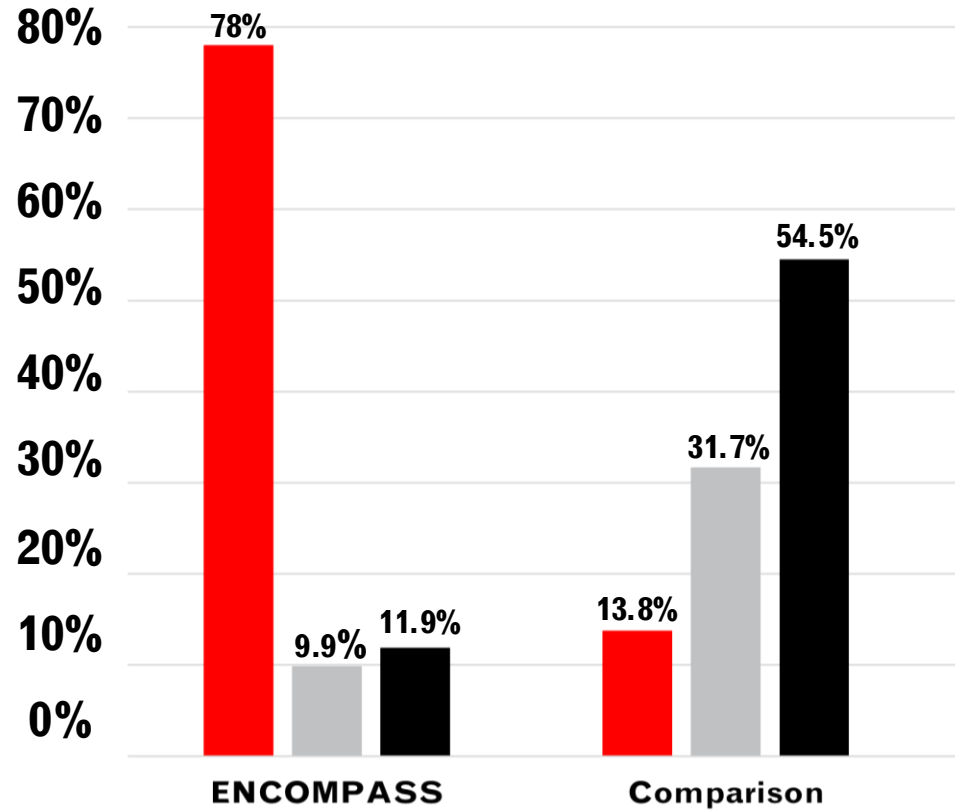
## Analysis:

- ▶ Chi-square analysis: Encompass engagement on insurance type
- ▶ T-tests: Encompass engagement on ENR and CM



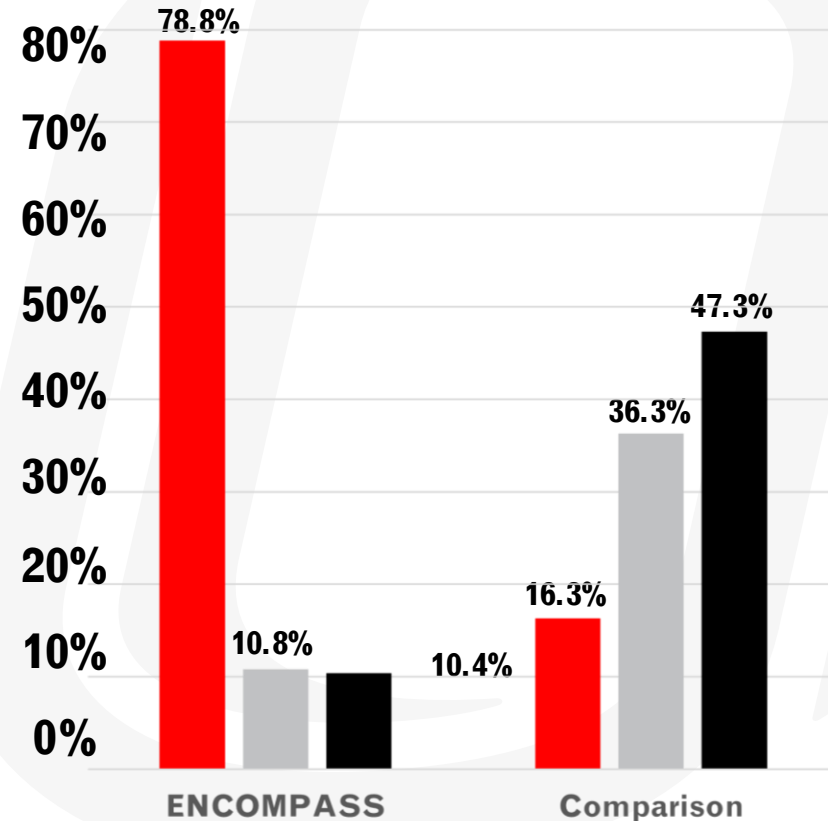
# Chi-Square Test on Health Insurance Coverage

## Encounters 90 Days After Admission



$\chi^2 = 165.5, p < .001$ , Cramer's V = .64

## Encounters 365 Days After Admission



$\chi^2 = 247.7, p < .001$ , Cramer's V = .61

■ Medicaid ■ Commercial ■ Self-Pay



# T-tests on Financial Outcomes of Inpatient Services

## Inpatient Hospital Financial Outcomes Encounters 90 Days After Admission

	<b>ENCOMPASS (Mean)</b>	<b>Comparison (Mean)</b>
<b>Expected Net Revenue</b>	<b>\$43,348*</b>	\$18,702*
<b>Contribution Margin</b>	<b>\$8,507*</b>	\$3,325*

\*p<.05

## Inpatient Hospital Financial Outcomes Encounters 365 Days After Admission

	<b>ENCOMPASS (Mean)</b>	<b>Comparison (Mean)</b>
<b>Expected Net Revenue</b>	<b>\$38,875*</b>	\$16,831*
<b>Contribution Margin</b>	<b>\$8,954*</b>	\$2,665*

\*p<.05



# T-tests on Financial Outcomes of Outpatient Services

## Outpatient Hospital Financial Outcomes Encounters 90 Days After Admission

	ENCOMPASS (Mean)	Comparison (Mean)
Expected Net Revenue	<b>\$334</b>	\$237
Contribution Margin	<b>-\$17*</b>	-\$148*

\*p<.05

## Outpatient Hospital Financial Outcomes Encounters 365 Days After Admission

	ENCOMPASS (Mean)	Comparison (Mean)
Expected Net Revenue	<b>\$411*</b>	\$253*
Contribution Margin	<b>\$60*</b>	-\$95*

\*p<.05



# Qualitative Analysis

- ▶ Semi-structured interviews with ENCOMPASS participants ( $n = 8$ ).
- ▶ Interviews focused on gaining insight on recruitment and bedside engagement, trust-building, staff-participant relationships, and structural barriers to service continuity.
- ▶ Thematic analysis using MAXQDA. Identified patterns through inductive coding and theme development.





# Key Themes

Major Theme	Frequency
A Community-Based Advocacy Network	75
Medicaid Coverage and Recovery Outcomes	51
ENCOMPASS as an Advocacy Network	46

“  
...We're getting  
medical bills, so  
I've seen it like  
\$40,000, now it's at  
\$2,300 ”

“...[Social Worker  
was] genuinely  
checking on me,  
always asking me if  
there's anything  
that [Social  
Worker] can do.”



# Discussion

- ▶ Medicaid advocacy in HVIPs promotes health equity, supports recovery, and improves financial outcomes for both patients and hospitals.
- ▶ Medicaid advocacy in HVIPs may have a positive criminal justice impact by addressing social determinants of health and improving post-discharge stability.



# Limitations & Future Research

## ▶ Limitations:

- ▶ Small sample size for qualitative analysis
- ▶ Selection bias in Encompass group; PSM matched on limited factors

## ▶ Future Research:

- ▶ Multi-site studies with larger samples
- ▶ Long-term impacts of Medicaid coverage on outcome measures such as reinjury rates, recidivism, and violent crime reduction



# THANK YOU

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- ▶ For any additional questions, consider reaching out to the following contributors:
  - ▶ Elizabeth Mavis, UNO, [emavis@unomaha.edu](mailto:emavis@unomaha.edu)
  - ▶ Carisma Jano, UNO, [cjano@unomaha.edu](mailto:cjano@unomaha.edu)
  - ▶ Dr. Mark Foxall, UNO, [markfoxall@unomaha.edu](mailto:markfoxall@unomaha.edu)
  - ▶ Dr. Charity Evans, UNMC, [charity.evans@unmc.edu](mailto:charity.evans@unmc.edu)
  - ▶ Ashley Campbell, UNMC/Nebraska Medicine, [asraposohadley@nebraskamed.com](mailto:asraposohadley@nebraskamed.com)

