

Medicaid expansion and association with HIV outcomes in Nebraska, USA: An observational prospective cohort study.

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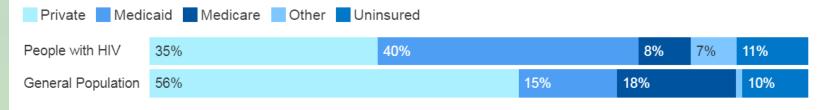
Disclosures

• None



Background: Medicaid and HIV

Insurance Coverage Among Nonelderly Adults with HIV Compared to Nonelderly Adults in the General Population, 2018



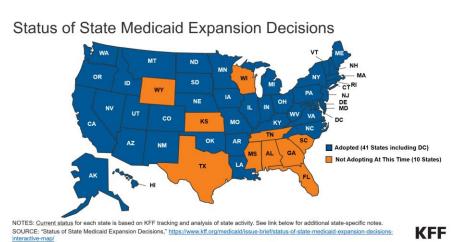
NOTE: Data sources are different for people with HIV and the general population and statistical testing was not performed. SOURCE: KFF. Issue Brief. Insurance Coverage and Viral Suppression Among People with HIV, 2018 https://www.kff.org/hivaids/issue-brief/insurance-coverage-and-viral-suppression-among-people-with-hiv-2018/ • PNG

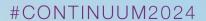




Background: Medicaid expansion







Medicaid expansion in Nebraska

Nebraska will implement Medicaid expansion in October 2020 246,460 Number of people covered by Medicaid/CHIP as of April 2020 123,000 Number of people expected to gain access to Medicaid as a result of expansion 27% Reduction in the uninsured rate from 2013 through 2018

N	lebraska	has	accepted federal Medicaid expansion
	395,237	MARKAGA DAGARANG MAKAN	askans covered by s of February 2023
	150,637	(0.230307) G/AM073330	umber of Nebraskans covered P fall 2013 to February 2023
	38%	Reduction in the 2010 to 2021	uninsured rate from
health insurance .org	62%	Increase in total Nebraska since l	Medicaid/CHIP enrollment in ate 2013





Medicaid expansion and impact for PWH

BMC Public Health. 2020; 20: 509.

Published online 2020 Apr 16. doi: 10.1186/s12889-020-08631-7

PMCID: PMC7164348 PMID: 32299421

Despite early Medicaid expansion, decreased durable virologic suppression among publicly insured people with HIV in Washington, DC: a retrospective analysis

<u>Deborah Goldstein, ^{31,2} W. David Hardy, ³ Anne Monroe, ⁴ Qingjiang Hou, ⁵ Rachel Hart, ⁵ Arpi Terzian, ⁶ and on behalf of the DC Cohort Executive Committee</u>

> Med Care. 2023 Jan 1;61(1):12-19. doi: 10.1097/MLR.000000000001772. Epub 2022 Dec 8.

Expanding Medicaid to Reduce Human Immunodeficiency Virus Transmission in Houston, Texas: Insights From a Modeling Study

Francis Lee ^{1, 2}, Aditya S Khanna ^{3, 4}, Camden J Hallmark ⁵, Richa Lavingia ⁶, Marlene McNeese ⁵, Jing Zhao ⁶, Melanie L McNeese ⁵, Salma Khuwaja ⁵, Babak M Ardestani ^{1, 2}, Nicholson Collier ⁷, Jonathan Ozik ⁷, Anna L Hotton ^{1, 2}, Nina T Harawa ^{8, 9}, John A Schneider ^{1, 2}, Kayo Fujimoto ¹⁰

The Impact of ACA and Medicaid Expansion on Progress Toward UNAIDS 90-90-90 Goals

Blythe Adamson ¹ ², Lauren Lipira ³, Aaron B Katz ³

Affiliations + expand

PMID: 30762215 DOI: 10.1007/s11904-019-00429-6

> Clin Infect Dis. 2019 Jul 18;69(3):538-541. doi: 10.1093/cid/ciy1088.

Human Immunodeficiency Virus (HIV) Viral Suppression After Transition From Having No Healthcare Coverage and Relying on Ryan White HIV/AIDS Program Support to Medicaid or Private Health Insurance

Julia Raifman ¹, Keri Althoff ², Peter F Rebeiro ³, W Christopher Mathews ⁴, Laura W Cheever ⁵, Heather Hauck ⁵, Judith A Aberg ⁶, Kelly A Gebo ⁷, Richard Moore ⁷, Stephen A Berry ⁸; HIV Research Network

1849. Impact of Medicaid Expansion on Human Immunodeficiency Virus Outcomes in Nebraska

James M McCluskey, III, MD, Renae Furl, MS, Monica Arroyo, and Nada Fadul, MD

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Open Forum Infect Dis. 2021 Feb; 8(2): ofaa595.
Published online 2020 Dec 28. doi: 10.1093/ofid/ofaa595

PMCID: PMC7875325 PMID: 33598500

 $\label{thm:medicaid} Medicaid Expansion's Impact on Human Immunodeficiency Virus Outcomes in a Nonurban Southeastern Ryan White HIV/AIDS Program Clinic$

Kathleen A McManus, ^{1,2} Karishma Srikanth, ³ Samuel D Powers, ¹ Rebecca Dillingham, ¹ and Elizabeth T Rogawski McQuade^{1,4}

▶ Author information ▶ Article notes ▶ Copyright and License information PMC Disclaimer



Aim and Hypothesis

Aims

- Compare HIV viral suppression rate at baseline and post-Medicaid enrollment between PWH who enroll in Medicaid, to those who are Medicaid eligible but did not enroll.
- Examine changes between baseline and 12 months in healthcare access, utilization, and barriers to care in PWH who enroll into Medicaid.

Hypothesis

Medicaid enrollment in Nebraska will improve access to care and HIV viral suppression in PWH



Methods and procedures

Single-center prospective cohort study, following PWH from the University of Nebraska Medical Center Specialty Care Center (UNMC SCC).

Eligibility criteria

HIV diagnosis documented

Actively receiving care at the UNMC SCC and had at least one HIV provider visit in the 12 months preceding study enrollment;

Household income is at or below 138% of the FPL;

Enrolled into Medicaid expansion program and their coverage start date is between October 1, 2020, and December 31, 2021.



Methods and procedures

The SCC client service team identified 230 PWH eligible for Medicaid enrollment/re enrollment

101 patients enrolled in Medicaid and 96 eligible did not enroll.

Capture of baseline demographics and clinical information from EMR (both groups).

Administration of Medicaid expansion questionnaire and Adherence Barriers questionnaire (ABQ HIV) for enrollees.



Methods and procedures

Follow-up assessments (3-month, 6-month, 9-month, and end of study visit)

- Every three months
 - Chart review for Viral load levels (enrolled, unenrolled)
 - follow-up questionnaire for enrollees to evaluate access to care from patient's perspective and any barriers to care.
- At 12 months (End of Study)
 - final assessment, that included an end-ofstudy questionnaire and the ABQ-HIV.

Viral load measurements

- **Baseline** HIV RNA: latest HIV RNA during the 12 months prior to Medicaid enrollment.
- Follow-up HIV RNA: at each three-month assessment,
- End of study HIV RNA: At 12 months, we recorded the latest HIV RNA test value and date as the end of study viral Load.



Table 1: Demographic characteristics

	Medicaid Enrolled	Medicaid eligible, unenrolled
	N(%)	N(%)
Overall	101 (100)	96 (100)
Age		
19-30	12 (11.88)	10 (10.42)
31-40	26 (25.74)	27 (28.13)
41-49	25 (24.75)	20 20.83)
50-59	24 (23.76)	29 (30.21)
60-64	8 (7.92)	9 (9.38)
65+	6 (5.94)	1 (1.04)
Gender		
Male	78 (77.23)	70 (72.92)
Female	18 (17.82)	24 (25)
Transgender female	4 (3.96)	2 (2.08)
Non-Binary	1(0.99)	0
Race/Ethnicity		
Hispanic	13 (12.87)	17 (17.71)
Non-Hispanic Black	39(38.61)	32 (33.33)
Non-Hispanic White	45 (44.55)	38 (39.58)
Other	4 (3.96)	9 (9.38)
Citizenship status		
US citizen	100 (99.01)	83 (86.46)
Non-Citizen	1 (0.99)	13 (13.54)



Table 1: Demographic characteristics (continued)

	Medicaid Enrolled N(%)	Medicaid eligible, unenrolled N(%)	
Overall	101 (100)	96 (100)	
Housing Status			
Stable	94 (93.06)	84 (87.5)	
Unstable	7 (6.94)	12 (12.5)	
HIV Transmission			
MSM	63 (62.37)	47 (48.95)	
Heterosexual	33 (32.67)	37 (38.54)	
IDU	2(1.98)	5 (5.20)	
Not reported or not identified	2 (1.98)	1 (1.04)	
Receipt of blood transfusion, component or tissue	0 (0.0)	2 (2.08)	
MSM & IDU	1 (0.09)	4 (4.16)	
Baseline Viral Load Status			
Undetectable	76 (75.24)	<mark>69 (71.87)</mark>	
Detectable	25 (24.75)	27 (28.12)	
Years on ART			
<5	31 (30.69)	24 (25)	
5-10	39 (38.61)	47 (49)	
10+	31 (30.69)	25 (26)	



Table 1: Demographic characteristics (continued)

	Medicaid Enrolled N(%)	Medicaid eligible, unenrolled N(%)
Overall	101 (100)	96 (100)
Income		
<100% FPL	66 (65.35)	44 (45.83)
100%-138% FPL	11 (10.89)	1 (1.04)
139%-250% FPL	16 (15.84)	20 (20.83)
251%-400% FPL	5 (4.95)	18 (18.75)
>400% FPL	1 (0.99)	4 (4.16)
Unknown/not reported	2 (1.98)	2 (2.08)
Baseline insurance		
Individual or employee-based	7 (6.93)	16 (16.67)
private		
Other public	1 (0.99)	0 (0.0)
Medicare	0 (0.0)	2 (2.13)
Medicaid	5 (4.95)	0 (0.0)
ADAP's supported health coverage	50 (49.50)	48 (50)
Uninsured	38 (37.62)	30 (31.25)
Insurance status (2021)		
Medicaid Nebraska	98 (97.03)	7 (7.45)
Medicare	0 (0.0)	2 (2.13)
Employee-based Private	2 (1.98)	16 (16.67)
ADAP's supported health coverage	1 (0.99)	<mark>45 (47.87)</mark>
Uninsured	0 (0.0)	22 (23.40)



Table 2: Viral suppression by enrollment status

	Baseline (%)	Follow-up (%)	P-values
Enrolled			
VS <50 (copies/ml)	58.4	77.2	0.0018
VS <200 (copies/ml)	63.3	91.09	<0.0001
Unenrolled			
VS <50 (copies/ml)	64.58	75.00	0.09
VS <200 (copies/ml)	73.96	83.33	0.08

Table 3: Viral suppression change among Medicaid enrollees

	Enrolled	Eligible, unenrolled	Total	
TIC CI . FO	(N=101)	(N=97)	(N=198)	P-value
VS Change at 50 (Copies/ml), n (%)				0.6103^{1}
•	0 (0 00 ()	12 (12 10 ()		
Worsened	9 (8.9%)	13 (13.4%)	22 (11.1%)	
Unchanged	65 (64.4%)	60 (61.9%)	125 (63.1%)	
Improved	27 (26.7%)	24 (24.7%)	51 (25.8%)	
VS Change at 200				0.0268^{1}
(Copies/ml), n (%)				
Worsened	2 (2.0%)	9 (9.3%)	11 (5.6%)	
Unchanged	69 (68.3%)	70 (72.2%)	139 (70.2%)	
Improved	30 (29.7%)	18 (18.6%)	48 (24.2%)	
¹ Fisher Exact p-value;				



Table 4: Adherence Barriers Questionnaire among Medicaid enrollees pre and post Medicaid expansion

ABQ HIV items	Score > 2 Baseline Proportion (%)	Score > 2 End of Study Proportion (%)	Interpretation	P-value
4. "My medications only help me if I take them on a strict regular basis."	6.6	1.1	Decrease in the proportion of PWH facing a barrier in this domain	0.059
8. "I feel that co-payments for medication are a great burden."	36.3	51.6	Increase in the proportion of PWH facing a barrier in this domain	0.016



Table 5: Changes in healthcare utilization among Medicaid enrollees pre and post Medicaid expansion

Medicaid expansion survey items	Before Medicaid	After Medicaid	Interpretation	P-value
Median Outpatient Visits	2	3-4	Increase in outpatient visits	0.003
Difficulty Getting Provider Appointment	26.4%	17.58%	Decrease in difficulty getting provider appointment	0.053
Emergency Room (ER) Visits	23.08%	7.69%	Decrease in the use of E.R. for outpatient conditions	0.025
Waiting/Choosing Not to Seek Medical Care	40.66%	12.09%	Decrease in choosing not to seek medical care	<0.0001
Routine Checkups	5.56%	66.67%	Increase in routine checkup	0.015
Difficulty Paying for Medications	6.59%	1.1%	Decrease in difficulty paying for medication	0.037
Taking Less Medication Than Prescribed	30.68%	7.95%	Decrease rationing of ART	0.001
Difficulty Getting Medication Authorized	10.11%	29.21%	Increase in the proportion of patients reporting "Almost Never" facing difficulty	0.022



Policy implications

- Advocate for the continuation and expansion of Medicaid programs, emphasizing their role in improving health outcomes and reducing healthcare disparities among vulnerable populations like those living with HIV.
- •Advocate to lessen the burden on patients associated with increase copayment and need for medication authorization.



Future research

- Long-term effects of Medicaid expansion on HIV outcomes, and healthcare utilization
- Comparative studies across different states with varying Medicaid policies,
- Qualitative research to explore the lived experiences of individuals accessing healthcare post-Medicaid expansion.



Conclusion

- Medicaid expansion led to the improvement of HIV outcomes (VS)
 post-enrollment compared to baseline.
- Barriers to healthcare (access and affordability) were eased, leading to increased healthcare utilization among participants who enrolled in Medicaid.

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Thank You for your attention.

X

Questions?



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