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Death Rates in NH Medicaid Populations Aged <65 Years

Methods and Results of Linking NH Medicaid and Death Certificate Data

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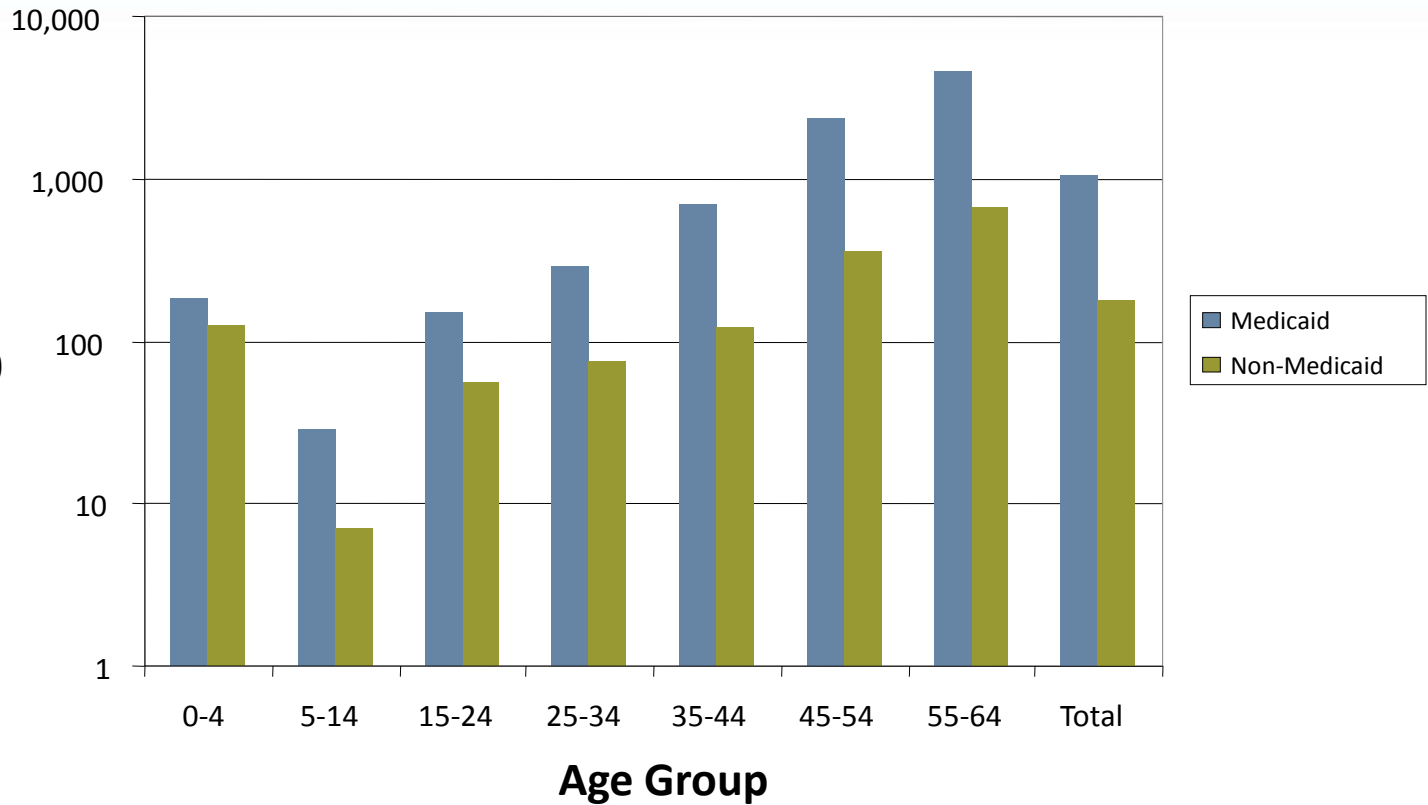
Methodology

- Vital Records file for deaths occurring in 2006-2007
- Medicaid eligibility file for same time period
- Linkage
 - SSN
 - DOB and last name
- Linked total = 5,143 deaths (<65 years)
 - 4,239 Non-Medicaid
 - 904 Medicaid = 797 (SSN) + 107 (DOB/Last Name)

Overall Death Rates

Death Rate
per 100,000

*Note:
The y-axis
uses a
logarithmic
scale.*



Age-Adjusted Death Rates

By Medicaid Eligibility Category

Age-Adjusted Total	Population (N)	Deaths (N)	Rate per 100,000 (95% CI)
Low-income adults	27,014	63	583 (338-828)
Disabled – Physical	16,056	556	2,741 (2,456-3,026)
Disabled – Mental	17,295	182	917 (778-1,055)

Age-Adjusted Death Rates

Selected Conditions (1 of 3)

Age-Adjusted Total	MEDICAID		NON-MEDICAID	
	Deaths (N)	Death Rate per 100,000 (95% CI)	Deaths (N)	Death Rate per 100,000 (95% CI)
Malignant neoplasms	231	292 (254-330)	1,374	53 (51-56)
Diseases of the heart	120	153 (125-181)	770	30 (28-32)
Accidents	108	115 (91-138)	569	27 (25-29)

Age-Adjusted Death Rates

Selected Conditions (2 of 3)

Age-Adjusted Total	MEDICAID		NON-MEDICAID	
	Deaths (N)	Death Rate per 100,000 (95% CI)	Deaths (N)	Death Rate per 100,000 (95% CI)
Chronic lower respiratory diseases	47	63 (45-80)	112	4 (3-5)
Intentional self-harm	34	38 (25-52)	238	11 (9-12)

Age-Adjusted Death Rates

Selected Conditions (3 of 3)

Age-Adjusted Total	MEDICAID		NON-MEDICAID	
	Deaths (N)	Death Rate per 100,000 (95% CI)	Deaths (N)	Death Rate per 100,000 (95% CI)
Diabetes mellitus	32	43 (28-58)	108	4 (3-5)
Chronic liver disease & cirrhosis	25	34 (20-47)	113	5 (4-6)
Cerebrovascular disease	17	22 (11-32)	89	4 (3-5)

NH Deaths by Unintentional Injuries

Subcategory Numbers & Proportions (1 of 2)

Unintentional Injuries Category	Medicaid N (%)	Non-Medicaid N (%)	Total N
Transport accidents (total)	16 (14.8)	247 (43.1)	258
Falls	8 (7.4)	34 (6.0)	40
Inanimate forces	0	20 (3.5)	20
Animate forces	1 (0.9)	0	1
Drowning	8 (7.4)	20 (3.5)	28
Threat to breathing	7 (6.5)	8 (1.4)	15
Electric current	0	4 (0.7)	4
Fire/smoke	5(4.6)	5 (0.9)	10

NH Deaths by Unintentional Injuries

Subcategory Numbers & Proportions (2 of 2)

Unintentional Injuries Category	Medicaid N (%)	Non-Medicaid N (%)	Total N
Venomous animals/plants	0	1 (<1)	1
Forces of nature	3 (2.8)	6 (1.0)	9
Poisoning	49 (45.4)	212 (37.3)	258
Other/unspecified exposure	1 (0.8)	9 (1.6)	10
Sequelae of transport or other accidents	10 (9.3)	3 (0.5)	13
TOTAL	108 (100)	569 (100)	699

Limitations

- Administrative data
- No continuous enrollment eligibility requirements
- Non-Medicaid group is not homogenous – commercially insured, uninsured, others

Next Steps

- Link with claims data to examine treatment patterns prior to death
- Length of Medicaid enrollment prior to death
- Look at other causes of death



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