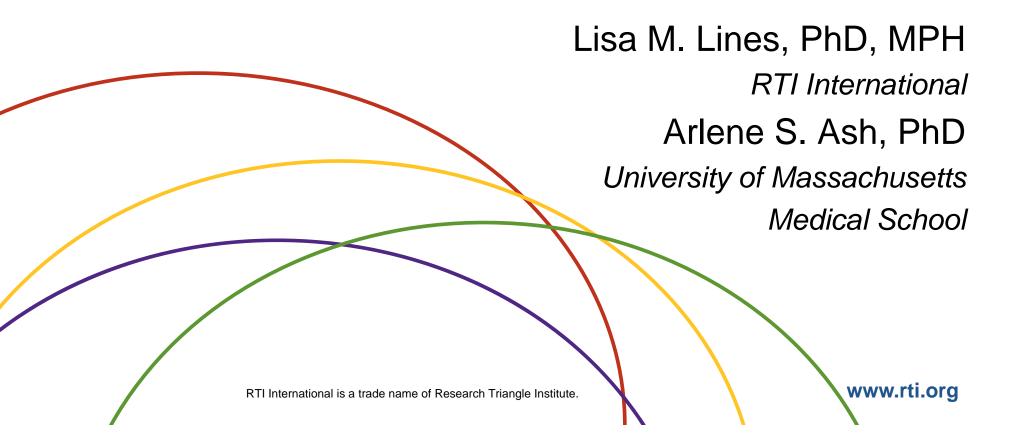


Intermittent insurance is a risk factor for emergency department use: Implications for the Affordable Care Act roll-out



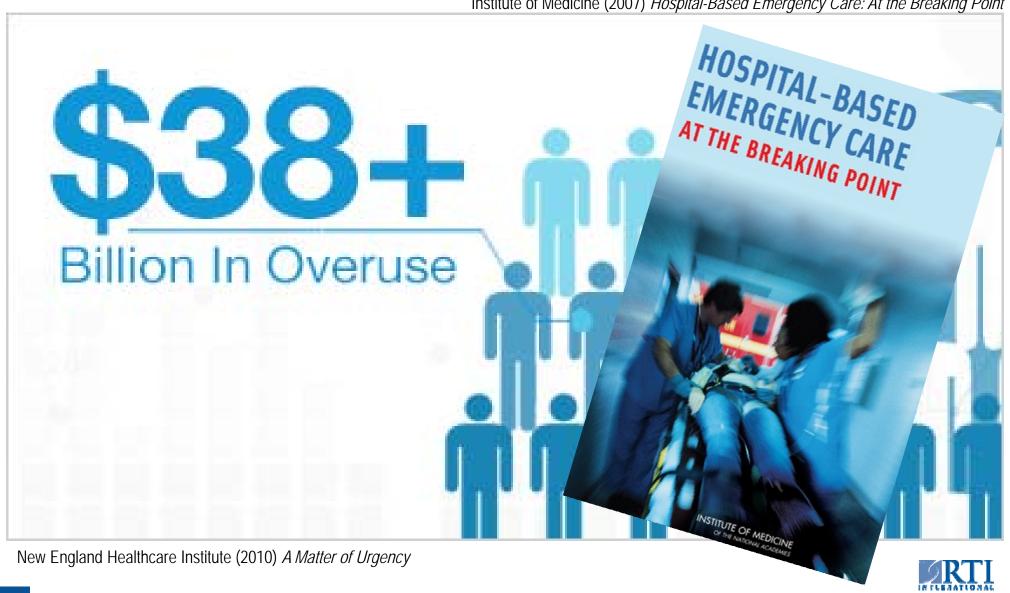
Disclosures

No relationships to disclose



Too much ED use in the US?

Institute of Medicine (2007) Hospital-Based Emergency Care: At the Breaking Point



Research questions

- As the US implements the Affordable Care Act...
 - What are the relevant predictors of ED use?
 - What are the potential impact of gaps in insurance coverage on ED use?



Data: Medical Expenditure Panel Survey

- A nationally representative survey of US noninstitutionalized civilians, drawn from respondents to NHIS
- Overlapping panel design 2 full years of data, 5 rounds
 - Panel 11: 2006-07 (pre-reform, pre-recession)
- Wide range of potential explanatory variables
- Monthly insurance coverage indicators and detailed costs
- Data limitations:
 - 3-digit ICD-9 codes
 - Modest sample size (<10,000)
 - ED use is underreported



Inclusion criteria and variable selection

- Respondents aged 18-64 at baseline
- Data from all 5 rounds
- Andersen's behavioral model of health services use
- Baseline: sex, race/ethnicity, education, English proficiency, perceived health, urban/rural residence, census region
- Longitudinal:
 - Family income: high = 400% of Federal poverty threshold (FPT)* or greater; middle = 200-399% of FPT; low = <200% of FPT
 - Employment: continuously employed, intermittently employed, continuously unemployed/not working (incl. retired/homemaker)
 - Insurance: continuous private, continuous public, intermittent, continuously uninsured



Descriptive characteristics

N	8,985
Weighted n	178,861,924
Mean age	41
Age range	18-64
Female	51%
Non-Hispanic white	67%
Hispanic (any race)	14%
Non-Hispanic African American	12%
Multiple/other race/ethnicity	7%
Limited English proficiency	6%
Rural residence	16%
Low income (<200% FPT)	34%
Middle income (200-400% FPT)	32%
High income (>400% FPT)	35%
Continuously employed	70%
Continuously unemployed	11%
Switched employment categories	20%
Continuous private insurance	48%
Continuous public insurance	13%
Intermittently insured	22%
Continuously uninsured	18%



ED use and costs by insurance status

Measure	Overall	Cont., Private Only	Cont., Any Public	Inter- mittent	Uninsured
Unweighted N	8,985	4,272	1,158	1,974	1,581
2006					
ED visit rate / 100	13.7	10.1	19.0	15.3	10.4
Number of ED visits / 100	19.0	12.5	27.4	22.9	14.3
Mean weighted ED expenditures among those with a visit	\$1,025	\$1,321	\$889	\$900	\$587
2007					
ED visit rate / 100	12.7	8.8	18.2	14.7	9.2
Number of ED visits / 100	17.6	11.1	26.8	21.2	11.5
Mean weighted ED expenditures among those with a visit	\$919	\$1,194	\$784	\$820	\$569



Discussion

- Both gaps in insurance coverage and continuous public coverage are associated with significantly greater risk of reported ED use than continuous private coverage
- The ACA has increased Medicaid and private enrollment, yet maintaining continuous coverage may be difficult for many of the newly insured
- Combined with ongoing shortages of primary care providers, this could contribute to continued unsustainable growth in national ED use





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