

Unemployment Rates and Workers' Health Risks

How do workers' modifiable health risks respond to the health of their industry?

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BRIAN GIFFORD

(1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose

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- Recent media reports suggest that recession has some benefits for health
 - Reduced death rates
 - Less disposable income for vice
 - Less work-related stress, more time for exercise
- What about people who manage to keep their jobs in a downturn?
 - Less time for exercise?
 - More stress?
- Question of importance to employers
 - Purchasers of health and wellness benefits

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- How do workers' health risks relate to economic downturns in their industries?
 - Downturns:
 - Industry quarterly unemployment rate
 - YoY % change in industry's quarterly unemployment rate
 - Risks
 - Smoking
 - Drinking
 - · Body weight
 - Exercise
 - Psychological distress

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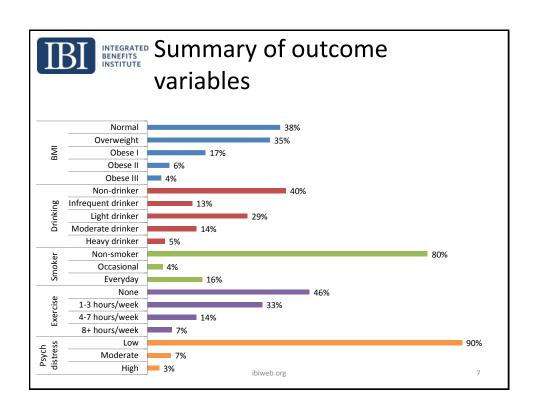


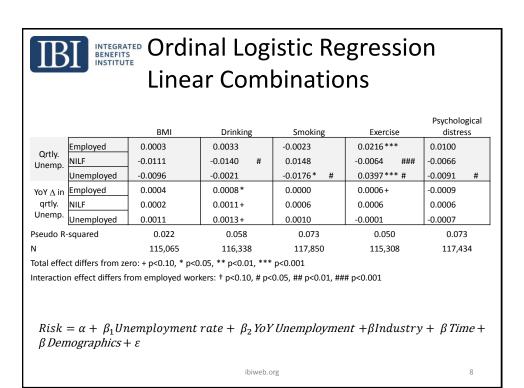
- Mixed evidence that economic downturns reduce health
- Levels of exercise improve with unemployment rate
 - Similar results whether employed or unemployed
 - No effect for YoY change
- Employed persons drink more as their industry's unemployment rises (YoY)
 - Slightly weaker correlation for NILF
 - No effect for unemployment rate
- No relationship between unemployment on psychological distress
 - Unlikely mediator of recessions and health risks at the macro-



- NHIS 2005-2010
 - ~78,000 employed survey respondents
 - An additional ~37,000 NILF, ~5,000 unemployed workers as comparison groups
 - Health risks, industry, demographics, indicators of year and quarter of interview
- BLS
 - Industry unemployment rate
 - · Rate during quarter of interview
 - YoY % growth in quarterly average
 - NILF assigned national rates, unemployed workers assigned rates for former industry

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- Macro-relationships sensitive to specification of operational definition of economic downturn
 - Raw vs. YoY, industry rate vs. state rates, etc.
- Longitudinal micro-analyses of employment exit and entry would likely provide clearer guidance
- Employers should not necessarily conclude that cutting benefits during downturns will not have repercussions on worker health and productivity

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