Removing the Disincentives of Long Careers in Social Security and Medicare

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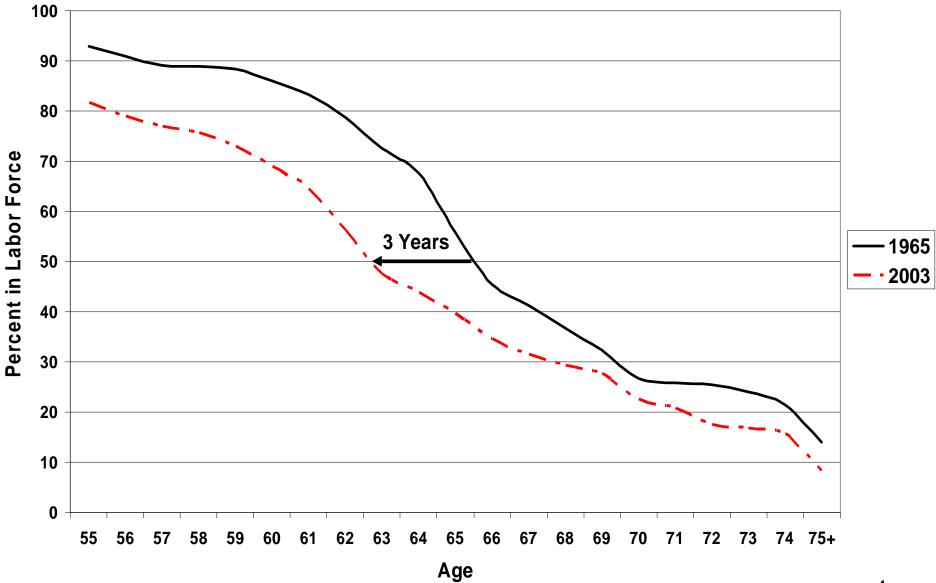
Motivation

- Life expectancy has improved dramatically since the introduction of Social Security
 - Period life expectancy for 20-year-olds in 1935 was
 66 for males, 69 for females
 - Today, 20-year-old males have life expectancy of 76, and females have life expectancy of 80
- We need to replace age (years since birth) with real age (based on mortality risk)
- Despite increases in life expectancy, men are retiring much earlier

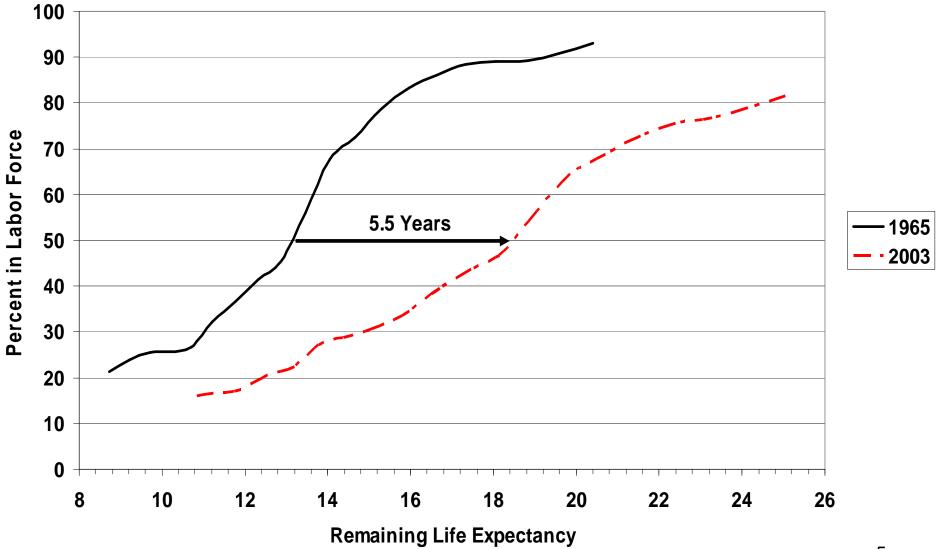
New Age Thinking

- 65 year old men in 2000, 70 year old women in 2000, and 59 year old men in 1970 are all the same "real age."
- All have a two percent mortality risk, that is, a 2% chance of dying within 12 months.





Labor Force Participation of Men by Remaining Life Expectancy, 1965 and 2003

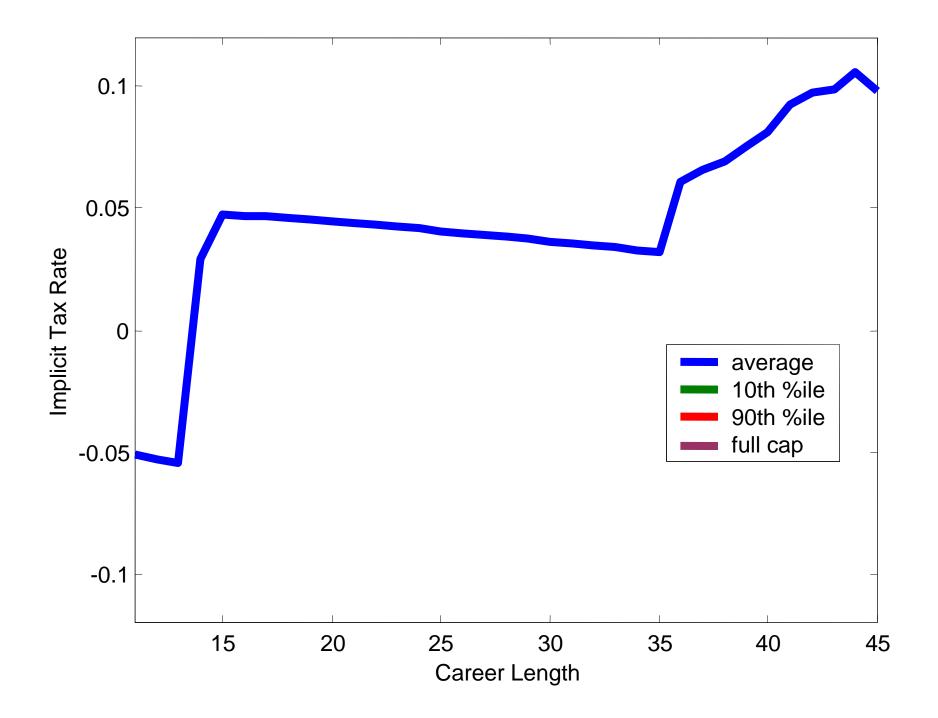


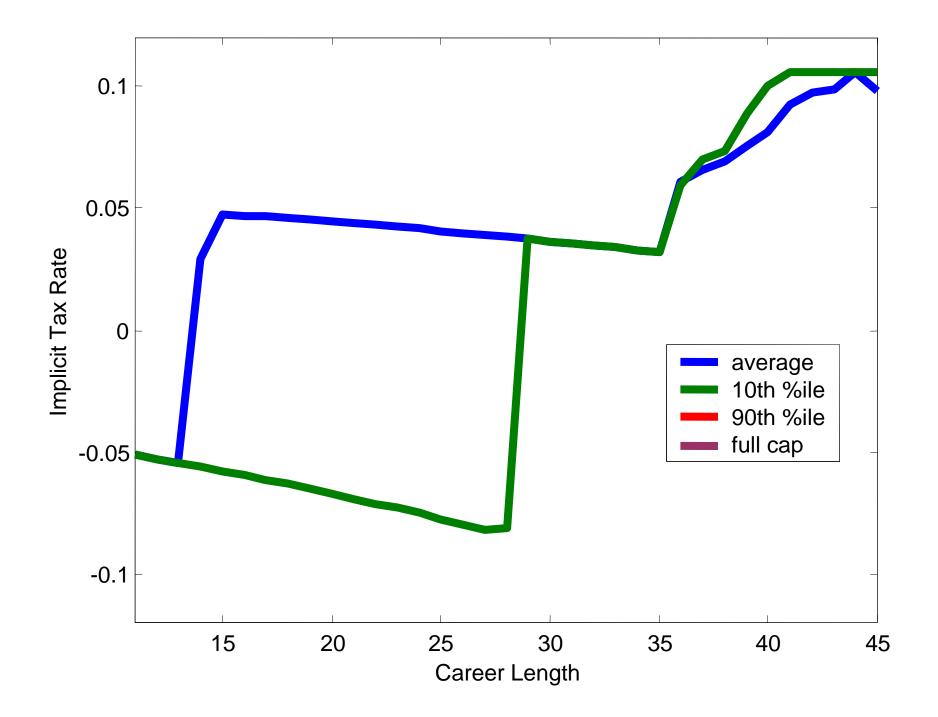
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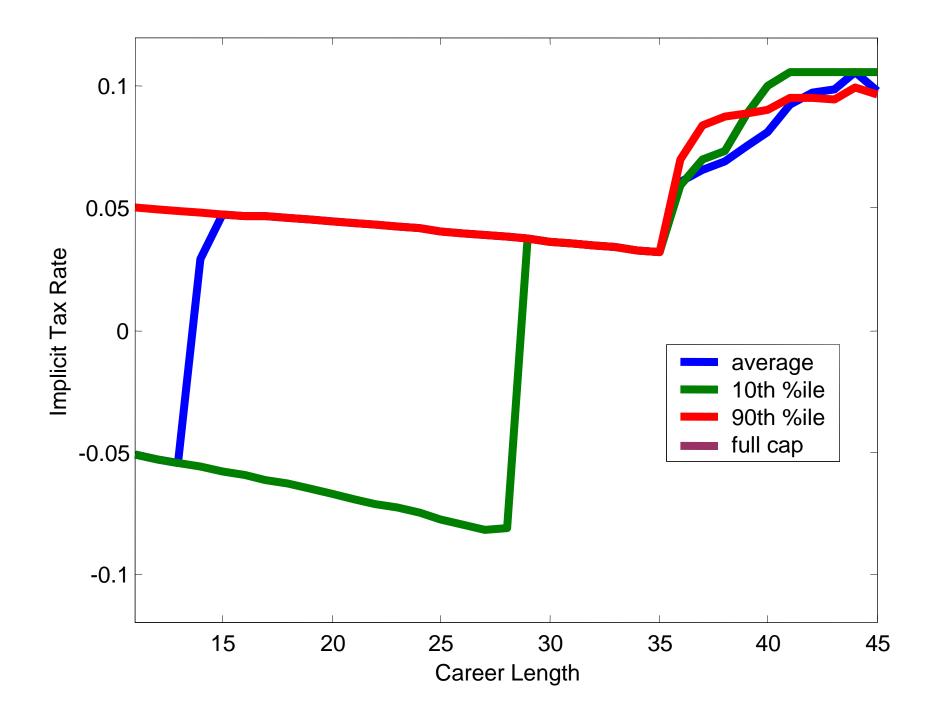
What are implicit Social Security tax rates?

 The implicit Social Security tax rate is the change in the net Social Security tax as a percentage of earnings

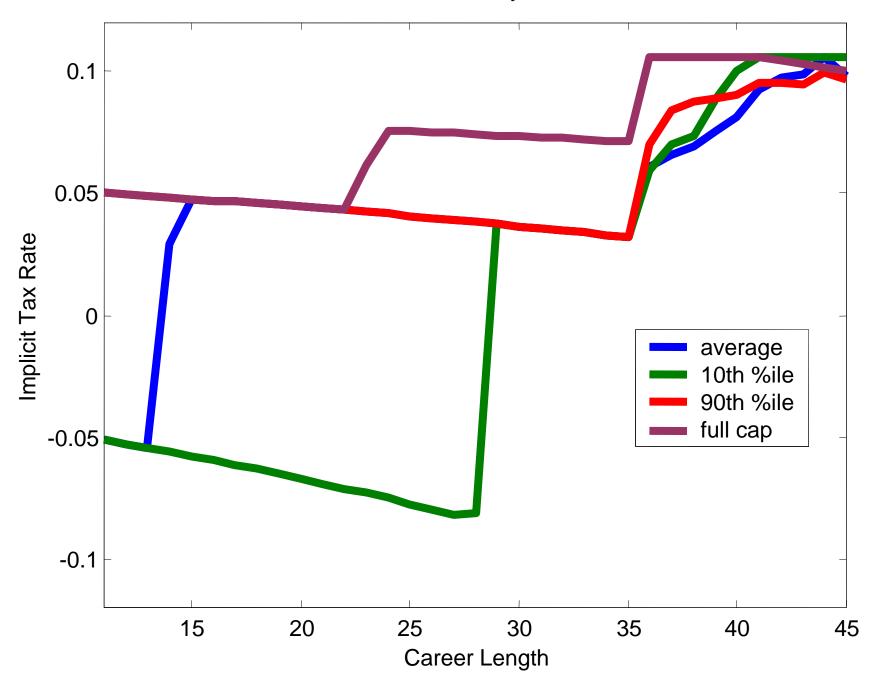
$$ImplicitSocSecTaxRate_{x} = \frac{PayrollTaxes_{x} - 12 \cdot \Delta PIA_{x}DAV_{g}(x, NRA)}{Earnings_{x}}$$



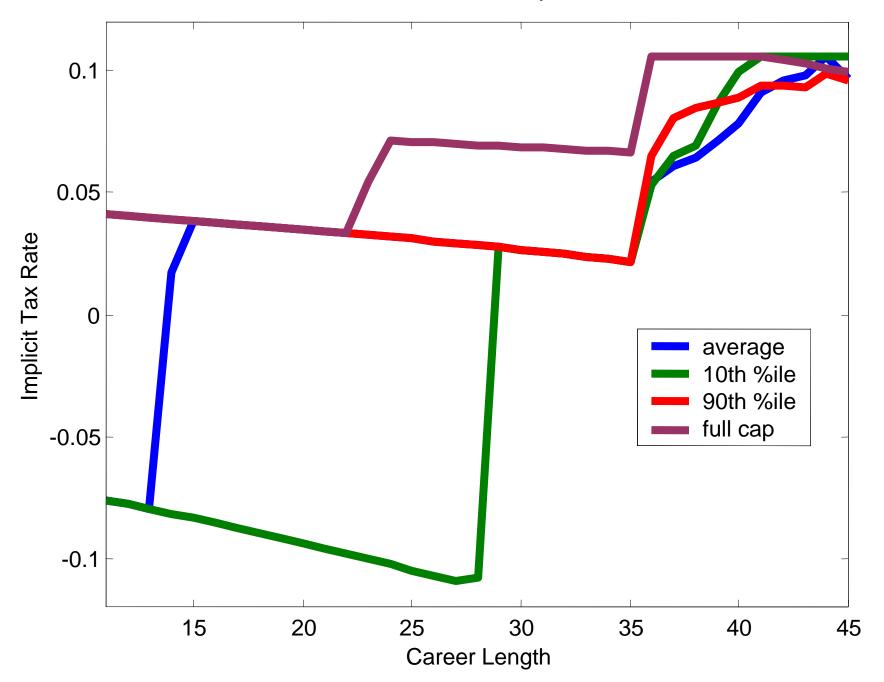




Male Mortality



Female Mortality



Why do we see these patterns?

- Once a person works 35 years, additional years of earnings are no longer replacing zeroes – they are replacing lower earnings years. Years 36, 37, etc. increase benefits much less than years 34 and 35 (if at all).
- Even for the first 35 years, each additional year of work does not count the same because of the way the system handles progressivity – those with short careers are treated as low lifetime earners.

Three Possible Reforms

- 1. Use 40 years rather than 35 in the AIME calculation
- 2. Disentangle career length and progressivity

Current PIA Calculation

Proposed PIA Calculation

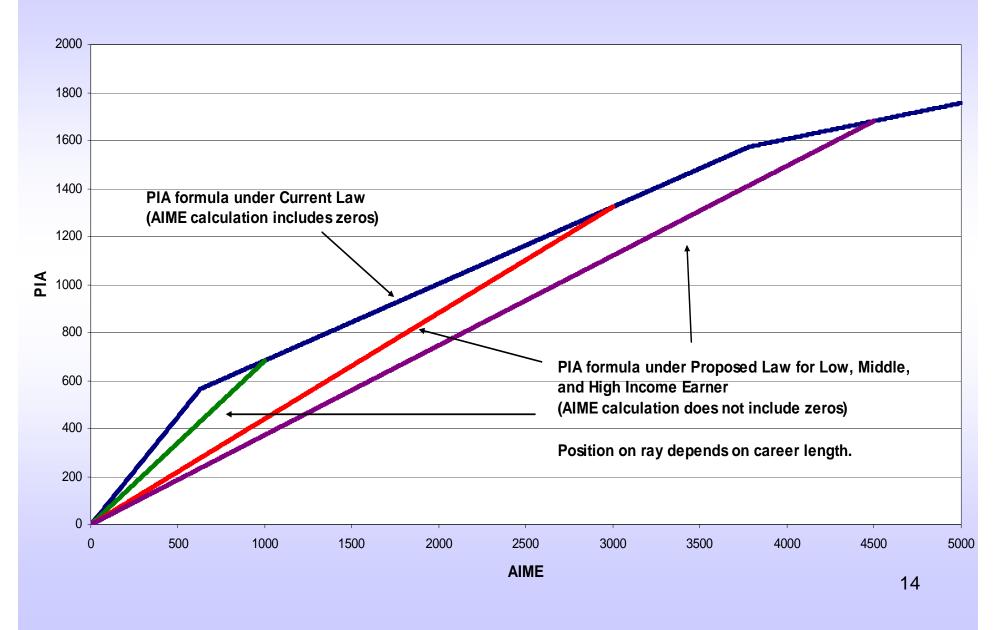
$$PIA = f\left(\frac{1}{T} * \sum \frac{w_{NRA}}{w_t} earn_t\right) = f\left(\frac{y}{T} * \frac{1}{y} * \sum \frac{w_{NRA}}{w_t} earn_t\right) \rightarrow PIA = \frac{y}{\sum_{\substack{t \in T \\ t \in T \\$$

(includes zeros)

length adjustment (de

modified AIME (does not include zeros)

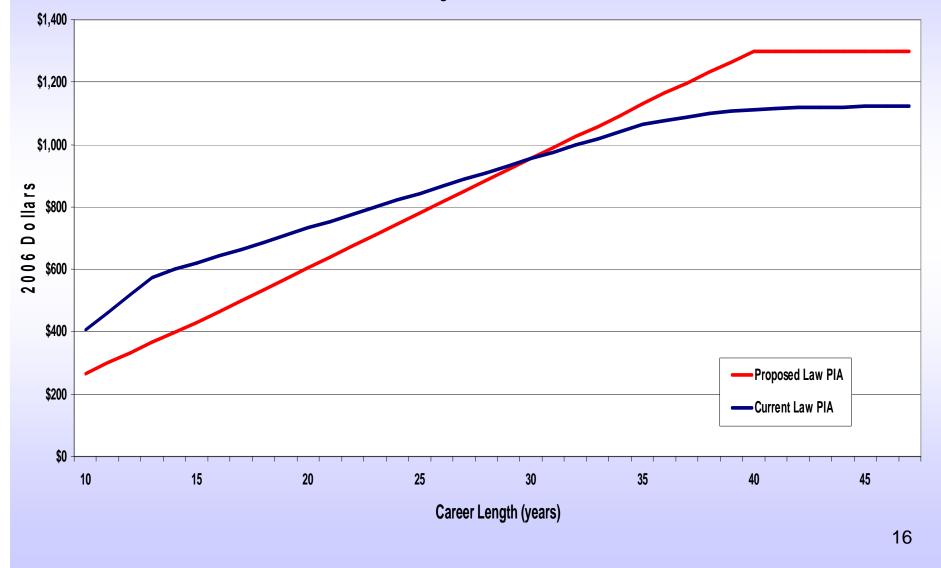
PIA Under Current and Proposed Law

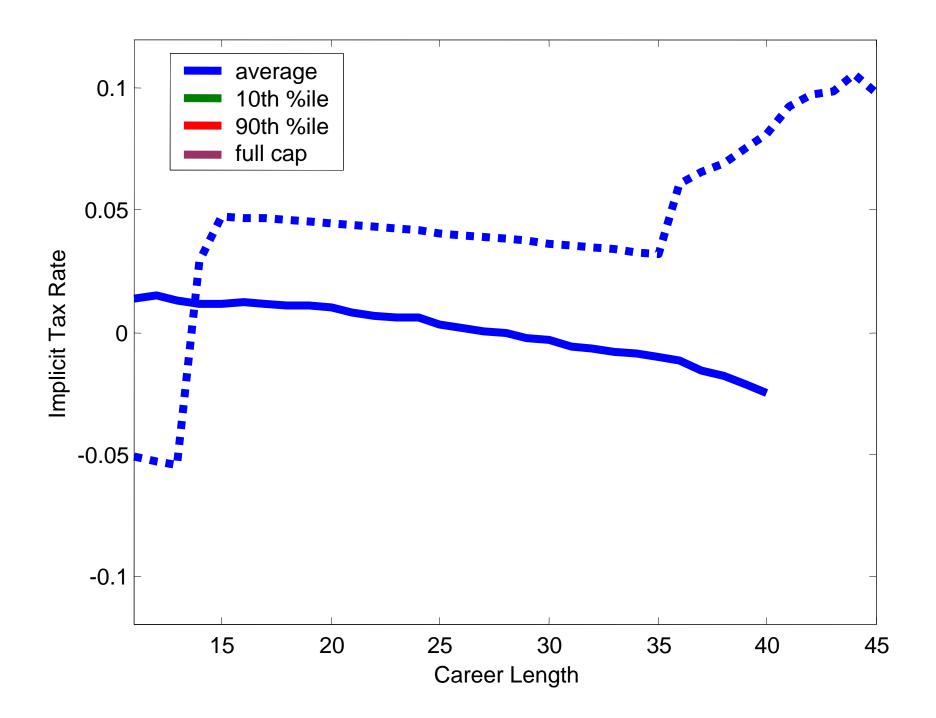


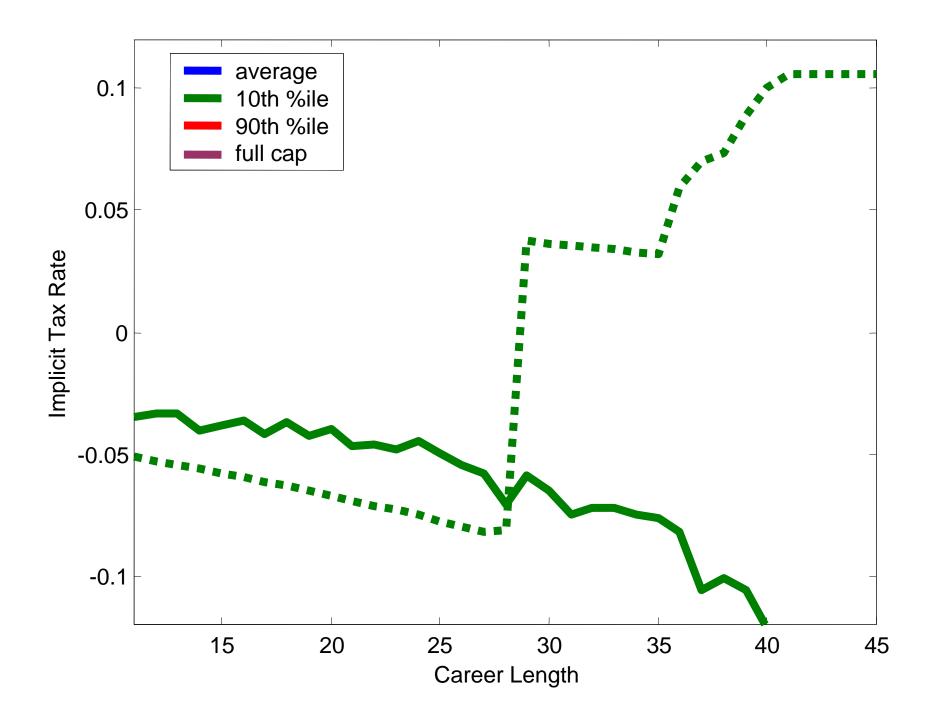
Three Possible Reforms

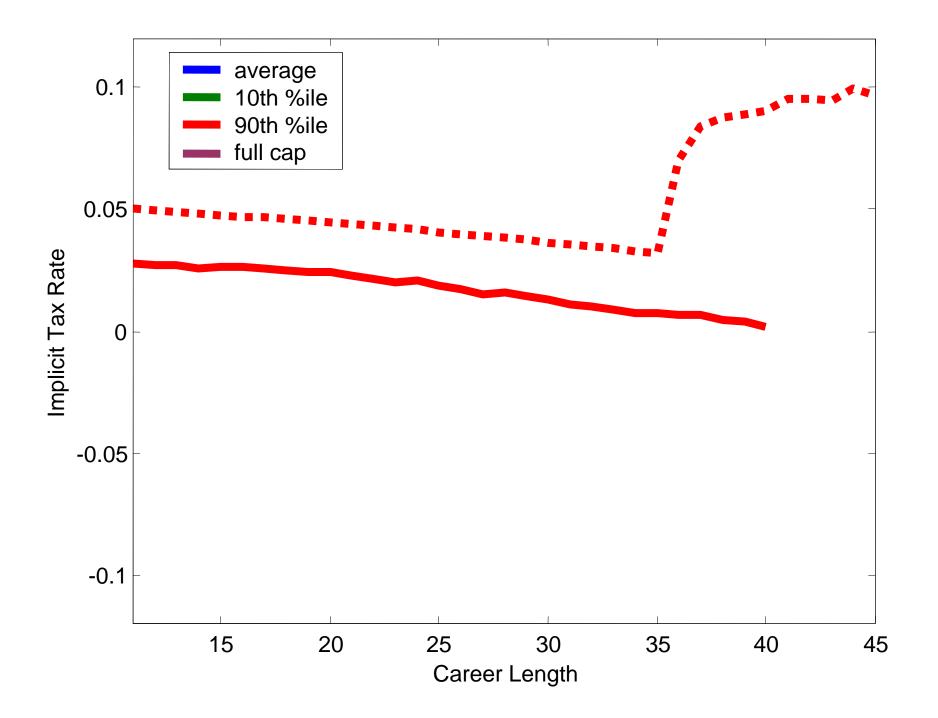
- 1. Use 40 years rather than 35 in the AIME calculation
- 2. Disentangle career length and progressivity
- 3. Establish a "paid-up" category of workers who have worked a full career of 40 years

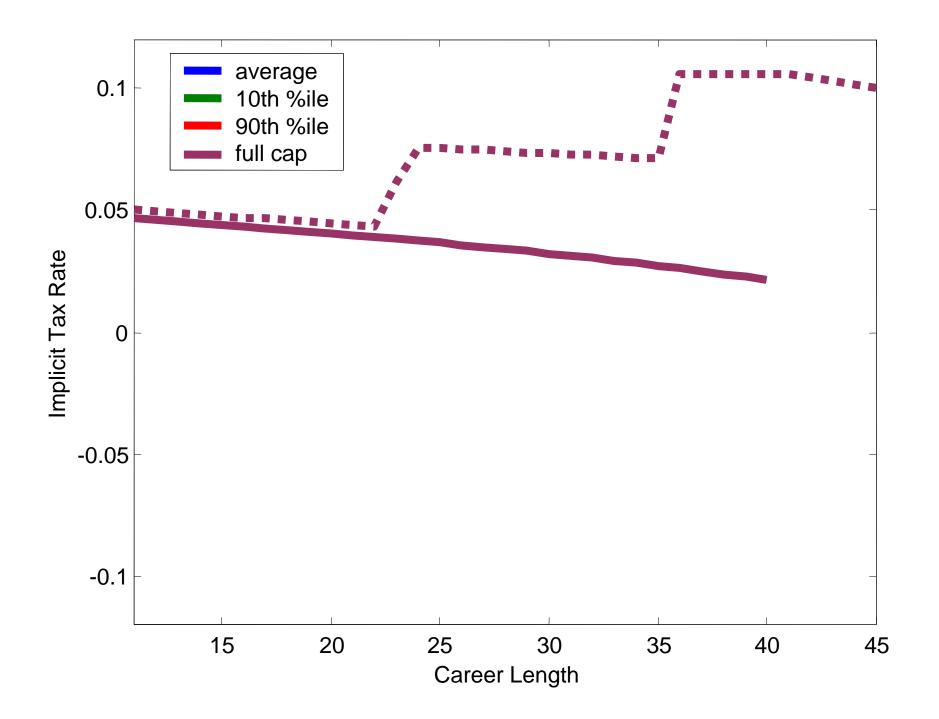
Monthly Primary Insurance Amount Under Current and Proposed Law Average Income Earner

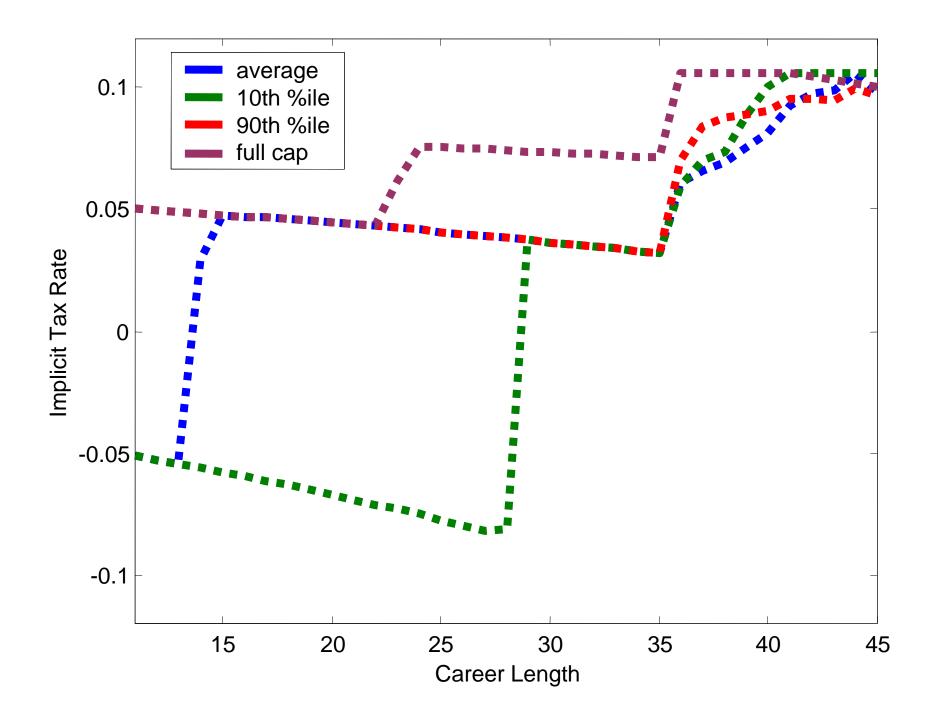


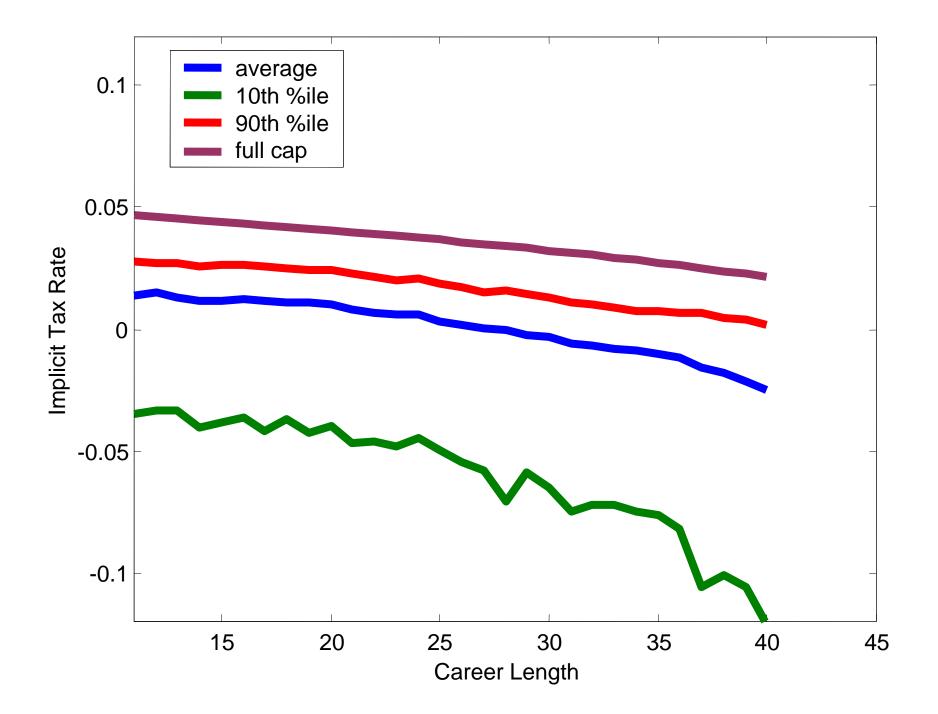


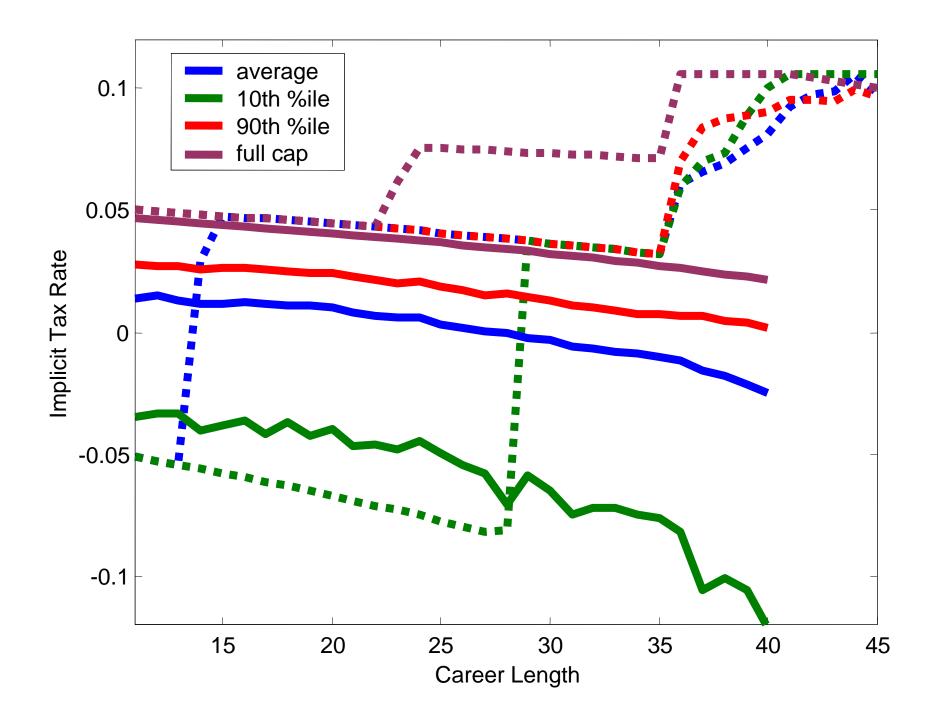












Medicare As A Secondary Payer: A Tax on Work by Older Americans

- If you are 65+ and eligible for Medicare and if you work for a firm with 20+ employees offering health insurance, then you effectively don't get Medicare (it becomes a secondary payer)
- Lowers take home pay from work
- 65+ workers have <u>very</u> high labor supply elasticities

Alternative Policy: Medicare as a Primary Payer

- You get Medicare whether you work or not. Employers could provide Medigap coverage.
- Result = Higher take home pay, greater labor force participation, greater Medicare payouts, higher income tax collections
- Impact on federal government budget = approximately zero.

Summary

- Flat payroll taxes and the current benefit formula together imply that workers face increasing disincentives for working long careers
- This contributes to suboptimally long retirement periods

Summary

- Policies that flatten the pattern of implicit taxes as individuals age would reduce the disincentives of working longer careers
- These policies can be enacted in ways that are either revenue- or benefit-neutral in aggregate
- These policies would involve some redistribution from individuals who work short careers to individuals who work long careers