INTERMEDIATE MACROECONOMICS MATCHING MODEL OF UNEMPLOYMENT 19. LABOR-MARKET POLICIES

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THE MINIMUM WAGE

- assume that all workers are paid at the minimum wage
- an increase in the minimum wage is an increase in the wage W
- this reduces the labor demand
 - because $L^d(\theta, W)$ is decreasing in W
- but it does not affect the labor supply
 - because $L^{s}(\theta)$ is independent of W



INCREASE IN MINIMUM WAGE

- a higher minimum wage leads to
 - lower labor market tightness
 - higher unemployment rate
 - lower employment
- so the policy seems costly for those who remain jobless
- but we neglect efficiency-wage effects: higher minimum wage —> higher productivity —> higher labor demand
- we also neglect aggregate-demand effects: higher minimum wage —> higher disposable income —> higher spending —> higher sales for firms —> higher labor demand

UNEMPLOYMENT INSURANCE (UI)

- eligible workers:
 - have worked and earned sufficiently (depends on state)
 - are unemployed through no fault of their own
- unemployment benefits replace 50% of past wage
 - if wage is \$2000, UI benefits are 0.5 × \$2000=\$1000 per month
 - monthly UI benefits are capped (depends on state)

UI DURATION

- in normal times, workers receive UI benefits for 26 weeks
- and UI duration is automatically increased in recessions:
 - state unemployment > 6.5%: duration goes up to 39 weeks
 - state unemployment > 8%: duration goes up to 46 weeks
 - in 2009, stimulus package (ARRA) extended duration to 99 weeks in states with unemployment > 8.5%

INCREASE IN UI

- when unemployed workers choose job-search effort e, labor supply depends on the parameter e
 - labor supply is increasing in e
 - more effort —> more people find jobs
- the main effect of an increase in UI is to reduce unemployed workers' job-search effort
 - which reduces labor supply
 - but does not affect labor demand

EMPIRICAL EVIDENCE ON UI

- typical finding: people who receive more generous UI remain unemployed longer, implying that they search less
 - Moffitt (1985): "The results indicate that a 10percent increase in the UI benefit level increases spells by about half a week and that a 1-week increase in UI potential duration increases spells by about 0.15 weeks."



INCREASE IN UI

- a more generous UI leads to
 - higher labor market tightness
 - higher unemployment rate
 - lower employment
- despite raising the unemployment rate, more generous UI may be desirable in recessions because it improves the material conditions of unemployed workers

ADDITIONAL EFFECTS OF UI

- we have neglected the effect of UI on wages: higher UI —> higher outside option for workers —> higher wage in bargaining
 - in the data this effect seems weak/zero: the reemployment wage of people who receive more generous UI does not change
 - if UI raised wages, UI would have a negative effect on labor demand (in addition to negative effect on labor supply)
- another possible effect is that higher UI stimulates aggregate demand, which could stimulate the labor demand

UNDERSTANDING THE OVERALL EFFECT OF UI

- empirical evidence: when jobseekers receive more UI, they search less and stay unemployed longer
 - in labor-market diagram: labor-supply curve shifts inward
- thus people infer that increasing UI strongly reduces employment
 - UI appear very costly in terms of employment
 - see Wall Street Journal op-ed: <u>https://perma.cc/C99J-AF5S</u>
 - implicit assumption: tightness is fixed
- but when labor demand is taken into account, tightness may adjust
 - example: when the number of jobs is fixed
 - in that case, UI is not as costly as previously thought





