Job Search and the Threat of Unemployment Benefit Sanctions

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Unemployment Benefit Sanctions

UI sanctions in theory...

- punishment: reduction in UI for low search effort
- pro: consumption smoothing with less moral hazard / more UI for total same expenditure
- con: jobseekers create worse matches ("market insurance")

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Policymakers tend to "toughen up" the UI regime after recessions (GFC, Covid)

- cited motives: "back to work" political rhetoric, budget / austerity /spending reductions
- examine UK reform in 2012 (conditions also tightened again in 2022)
- other examples: France, Germany 2022

Research Questions:

- Does sanction threat change search behaviour?
 - search effort
 - exit rate
- To what extent does sanction threat create worse matches?
 - reemployment earnings
 - reemployment stability

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Empirical strategy uses UK Sanction Policy Reform in 2012

- exploit differential responses across districts in sanctioning intensity
- lends itself to Difference-in-Differences design

This Paper

1. Empirics:

- New "stylised fact": early-spell sanction experience correlates with medium-run income losses
- Causal estimates of impact of sanction threat on
 - exit rate.
 - exit to employment/inactivity/retirement
 - future unemployment risk (number of cumulative spells)
 - re-employment duration

2. Structural model (under construction)

- partial eqm. random search model.
 - jobs vary in pay and stability
 - endogeneous offer-arrival and offer-acceptance
- sanctions detect low search imperfectly
- do sanctions generate mismatch via direct liquidity effect or indirect threat effect?

Snapshot of Results

- Stylised Fact: sanction threat correlates with earnings losses in the medium-to-long term
- Sanction threat increases exit speed
 - reform increases hazard rate ~ 20 percent (100 percent direct effect estimate)
 - a 1ppt increase in sanction threat raises exit hazard by 0.5 ppts (baseline: 4.5)

- 1 treated districts experience more spells of unemployment
 - $-\sim 10$ percent increase in cumulative spells

- 4 treated districts have worse reemployment durations
 - 5-10 percent less likely to reach 12/24/36 months continuously employed

UI and Sanction Policy in UK

Policy:

- Unemployment benefits administered by around 800 Job Centres
- Caseworker meeting every two weeks
- Sanction decision made by third party after referral

Data

- UK Longitudinal Household Survey (UKLHS, "Understanding Society")
- monthly working life histories states: {employed, self-emp., unemployed, ...etc}
- keep track of individuals transitions across states
- 2009-2015
- 10k unemployment spells
- median duration: 9 months, mean: 12 months, 68% < 12 months

Households matched by district-month with average sanction-per-claimant rates

Correlations:

Displacement Earnings Losses and Sanction Threat

Earning losses due to job displacement

Displacement event study regression:

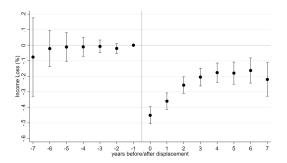
- makes valid comparisons of displaced vs not-yet-displaced / i.e. is stagger-robust
- stacking estimator of Cengiz et al (QJE,2019), stacks many 2 × 2 diff-in-diffs

Estimating equation:

$$y_{ict} = \alpha_{ic} + \lambda_t + \sum_{r=-7}^{7} \gamma_r T_r + \sum_{r=-7}^{7} \beta_r (T_r \cdot displaced in \ year \ c_{ic}) + \varepsilon_{it}$$
(1)

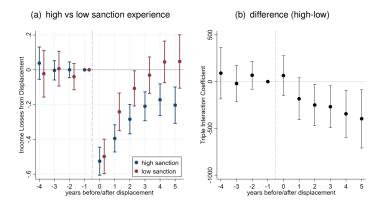
- year and person-cohort fixed effects
- T_r relative-time fixed effects
- outcome normalised to r = -1 in relative event time

Figure 1: Earnings Losses from Job Displacement



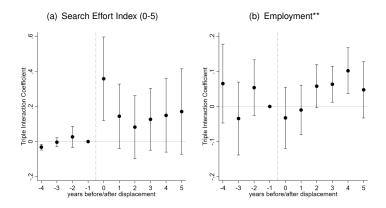
Sample: Ever-displaced only. Treated: lose job in year *t*, control: not-yet-treated by *t*. Excludes zero earnings. Including zeroes leads to approx -40pct

Figure 2: Earnings Losses by high/low sanction regimes in early unemployment



High sanction: average sanction rate in first 3 months of spell above/below average

Figure 3: Triple-Differences Estimates comparing displacements with high vs low sanctioning



less conservative sample restriction: employed in r = -1 only. **Employed at time of survey**



Reforms

2012 Policy Reform:

- Increased minimum sanction duration and tighter monitoring of search activity
- large increase in post-reform heterogeneity across districts in sanctions-per-claimant (second, third moments)
- focus on extensive margin only

► Table: Reasons for Sanction

Sources of Cross-sectional Variation:

- degree of job centre discretion/autonomy
- use of sanction/exit targets
- partisan pressure from politicians

National Audit Office: "The NAO concludes it is likely that management focus and local work coach discretion have had a substantial influence on whether or not people are sanctioned (...) heterogeneity [in sanction rates across areas] not fully explained by jobseeker characteristics"

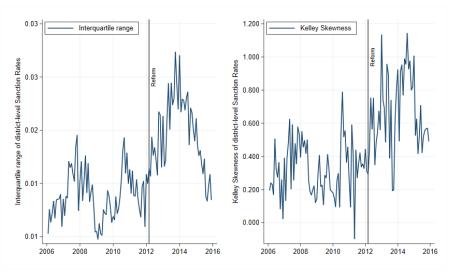
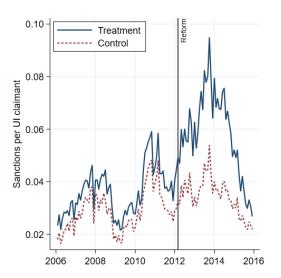


Figure 4: 2nd and 3rd Moments of Sanctioning Rate distribution

Policy Reform and Data

Figure 5: sanction intensity: $S_{gt} = sanctions issued_{gt} / UI claimants_{gt}$



Canonical 2x2 simultaneous reform Difference-in-differences:

$$y_{igt} = \underbrace{\lambda_t + \gamma_g}_{\text{common trends}} + \theta_{T(i,t)} + \underbrace{\sum_{\ell=-4}^{4} \beta_{\ell} \cdot \mathbb{1}\{t = \ell\} \cdot D_g + u_{igt}}_{ATTs}$$
(2)

- $\theta_{T(i,t)}$ non-parametric duration dependence
- Two-stage estimation: estimate $(\lambda, \gamma, \theta)$ using untreated obs. Treatment will affect covars in post period.

Treated based on the change in average sanctioning rate around reform:

$$D_g = \begin{cases} 1 & g \in \text{top quartile of } \Delta \bar{S} \\ 0 & g \in \text{bottom quartile}, \Delta \bar{S} \approx 0 \end{cases}$$
 (3)

Parallel Trends Assumption: no signs of divergence local labour markets

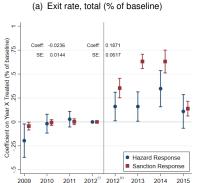
- eqm labour market outcomes: wages, employment
- output: gva, gva pc, gva growth
- industrial structure: local industry gva shares

► Appendix: Parallel Trends

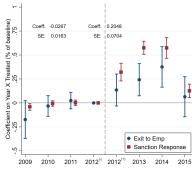
Figure 6: Sanction Rates by District

Cabc

Figure 7: DID Estimates comparing high vs low intensity districts



(b) Exit rate, into employment (% of baseline)



Back-of-Envelope Magnitudes

Simplifying assumptions:

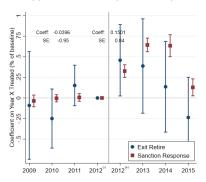
- worst-case: estimated coefficients are total effects (DE+IE)
- median duration of sanction approx 1 month
- $\Rightarrow \Delta$ Incidence = Δ Prevalence

Total Effect (% of baseline)	Direct Effect (%, sanctioned only)	Δ Prevalence (ppts)	Scaled Direct Effect (%)	Indirect Effect (%)
0.200	1.00	0.04	0.04	0.160

Table 1: Decompisiton of Direct Effect and Threat Effect

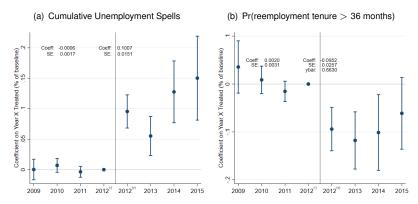
Figure 8: Exit to retirement

(a) Exit to retirement (% of baseline)



Post-reform spike one-and-done effect. Very low precision.

Figure 9: Remployment Stability



Search and Sanctions

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Conclusion

Sanctioning policy acts on a wide set of job-seekers, not just the directly punished. Effects go beyond immediate exit.

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Quicker exits from unemployment are paid in less stable jobs

- reduces possibility to run more generous social insurance
 - (without biases) welfare gains, if any, will be here
- may backfire and increase total expenditure

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Comments and feedback welcome:

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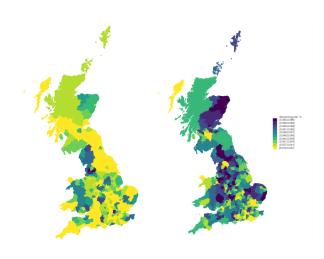


Intensive Margin of Sanction Reform

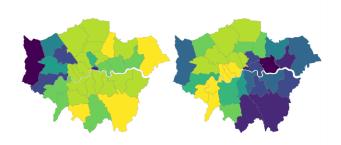
Example Reasons	Sanction in weeks	
	Before	After
Failure to attend advisor meeting Failure to attend work program	1	4,13
Unavailable to work Ineligible search effort	0	4, 13
Refusing, voluntarily leaving work Dismissal for misconduct	1-26	4, 26, 156
	Failure to attend advisor meeting Failure to attend work program Unavailable to work Ineligible search effort Refusing, voluntarily leaving work	Failure to attend advisor meeting Failure to attend work program Unavailable to work Ineligible search effort Refusing, voluntarily leaving work 1-26

Table 2: Intensive Margin of Sanctions within Infractions

Mapping Sanction Rates, 2010/12 vs. 2012/14

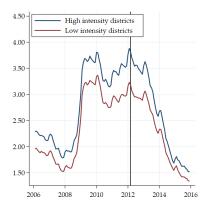


Mapping Sanction Rates, 2010/12 vs. 2012/14; London



Equilibrium Labour Market Outcomes





(d) Weekly Earnings

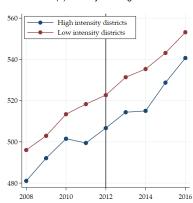
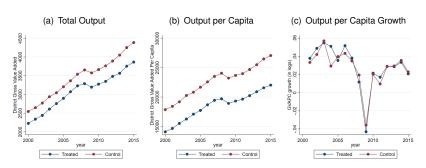
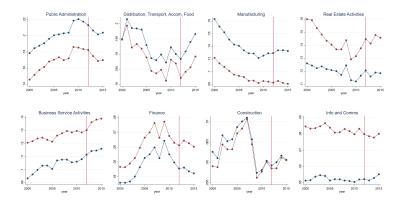


Figure 10: District-level Output (Real GVA)



*excludes Westminster and City of London due to high business concentration

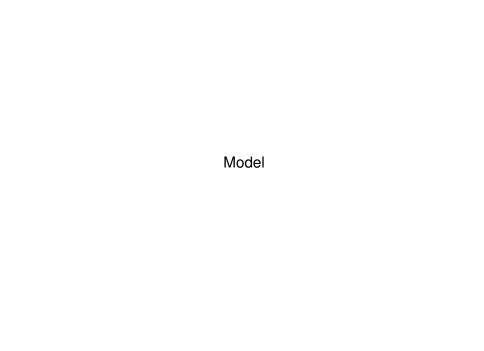
Figure 11: District-Industry Output Shares (GVA_{ind,dist,year}/GVA_{dist,year})



Estimated ATTs

Table 3: Regression Results: ATT estimates

	Exit rate		Unemployment	Re-employment duration			
	total	employed	retired	N _u	>12	>24	>36
β ATT (ppts)	0.00860*** (3.03)	0.00796*** (2.91)	0.00455 (0.84)	0.112*** (6.65)	-0.0396*** (-2.85)	-0.0410** (-2.45)	-0.0631*** (-3.70)
β ATT (percent)	0.191*** (3.03)	0.205*** (2.91)	0.150 (0.84)	0.101*** (6.65)	-0.0504*** (-2.85)	-0.0583** (-2.45)	-0.0952*** (-3.70)
NT	59070	59070	12696	59070	59070	59070	59070



Key Features

can a search model:

- generate dynamics from regression estimates (exit rates and reemployment stability)?
- explain jointly causal and correlational evidence? (link above to medium-run income losses)?

workers

- a job is a (wage, riskiness) pair
- workers can search on the job with fixed efficiency

unemployed

- exert costly effort to (1) raise offer arrival probabilities (2) reduce the probability of a sanction
- accept/reject offers

offers

• drawn from exogeneous distribution $F(w, \sigma)$

government

• pays UI, sanctions with prob $\pi(e)$