# 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 generous 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

- "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?
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  - exit rate
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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
- mechanisms: triple-differences (variation across spells)

## **This Paper**

### 1. Empirics:

- 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
- mechanisms: early-spell sanction experience correlates with medium-run income losses, higher search effort on impact

### 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
- characterise optimal Baily-Chetty replacement rate with (i) sanctions (ii) market insurance undershooting

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Institutional Setting, Reform, Data, Design

## **Institutional Setting and Reform**

### **UI Policy in UK:**

- Unemployment benefits administered by around 800 Job Centres
- Caseworker meeting every two weeks
- UI transfer is search not contribution or duration contingent
- Sanction decision made by third party after referral

### 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

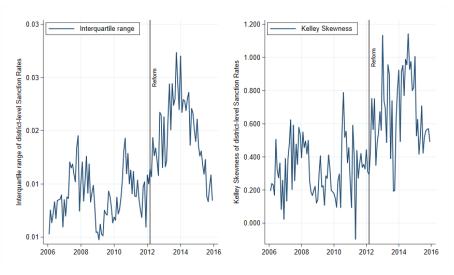


Figure 1: 2nd and 3rd Moments of Sanctioning Rate distribution

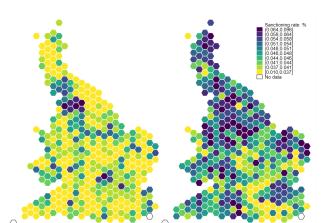
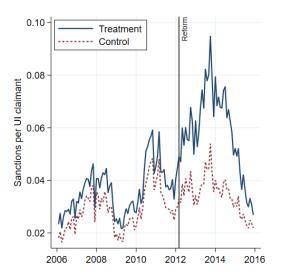


Figure 2: Sanction Rates by District

# **Identifying Wedge in Sanction Intensity**

Figure 3: sanction intensity:  $S_{gt} = sanctions issued_{gt} / UI claimants_{gt}$ 



### Sources of Cross-sectional Variation:

- degree of job centre discretion/autonomy
- management use of sanction/exit targets
- partisan pressure from politicians
  - close-elections RDD: 20% drop in sanction rate for marginally-gov-aligned seats (Broberg, T\u00e4htinen, Walsh 2023)

► Appendix: RDD plot

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"

### Data

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

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

### Treatment variable is dichotomoised:

$$D_g = \begin{cases} 1 & g \in \text{highest quartile of } \Delta \bar{S} \gg 0 \text{ "movers"} \\ 0 & g \in \text{lowest quartile}, \Delta \bar{S} \approx 0 \text{ "stayers"} \end{cases}$$
 (1)

### Canonical 2x2 simultaneous reform Difference-in-differences:

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

- $\theta_{T(i,t)}$  spell duration controls
- Two-stage estimation: estimate  $(\lambda, \gamma, \theta)$  using untreated obs. Otherwirse duration effects overstated.

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### **Parallel trends**

## Parallel Trends Assumption: no signs of divergent local labour markets

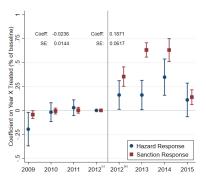
- eqm labour market outcomes: wages, employment
- output: gva, gva pc, gva growth
- industrial structure: local industry gva shares

► Appendix: Parallel Trends

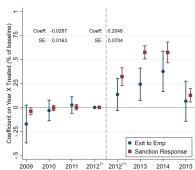
# Causal Estimates, Back-of-Envelope Magnitudes, Mechanisms

Figure 4: DID Estimates comparing high vs low intensity districts





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



## Back-of-Envelope Magnitudes: Direct Effect v Threat Effect

### Simplifying assumptions:

- worst-case: estimated coefficients are total effects (DE+IE)
- estimate of direct effect of sanction on exit hazard from lit (+100%)
- median duration of sanction approx 1 month
- $\Rightarrow$   $\triangle$ Incidence =  $\triangle$ Prevalence (4ppts)

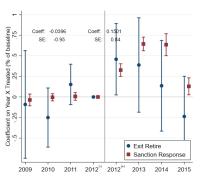
Total Effect (% of baseline)	Direct Effect (%, sanctioned only)	$\Delta$ Prevalence (ppts)	Scaled Direct Effect (%)	Indirect Effect (%)
0.200	= (1.00	×0.04)	0.04	+0.160

Table 1: Decompisiton of Direct Effect and Threat Effect

## **Early Retirements?**

Figure 5: Exit to retirement

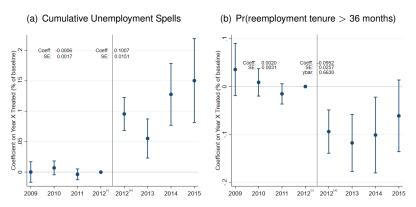
(a) Exit to retirement (% of baseline)



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

# **Repeat Unemployment and Employment Tenure**

Figure 6: Reemployment Stability



# Mechanisms: Triple Differences estimates

# 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

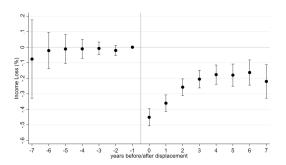
### **Triple-Differences**

- interaction with above/below mean sanctioning threat in first 3 months of unemployment spell
- compare similar individuals displaced in the same year, same district, but experienced different sanction threat levels

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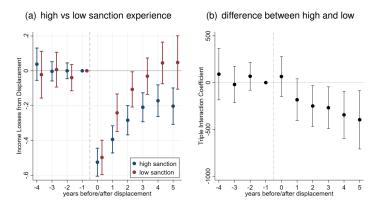
Figure 7: Earnings Losses from Job Displacement



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

## **Scarring Effect and Sanction Threat**

Figure 8: Earnings Losses by high/low sanction regimes in early unemployment

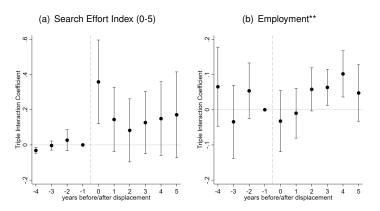


- High sanction: average sanction rate in first 3 months of spell above/below average
- sample-split potentially bundles many things together

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Figure 9: Triple-Differences Estimates comparing displacements with high vs low sanctioning



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

### 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**

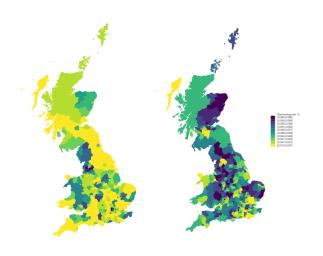
Infraction Level	Example Reasons	Sanctio Before	n in weeks After
Lower	Failure to attend advisor meeting Failure to attend work program	1	4,13
Intermediate	Unavailable to work Ineligible search effort	0	4, 13
Higher	Refusing, voluntarily leaving work Dismissal for misconduct	1-26	4, 26, 156

**Table 2: Intensive Margin of Sanctions within Infractions** 

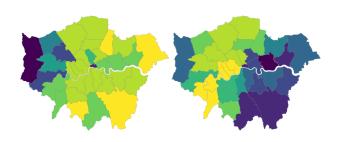
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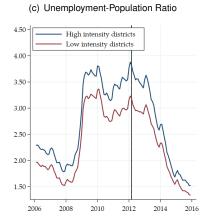
# Mapping Sanction Rates, 2010/12 vs. 2012/14



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



# **Equilibrium Labour Market Outcomes**





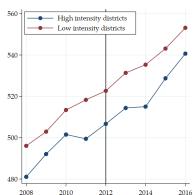
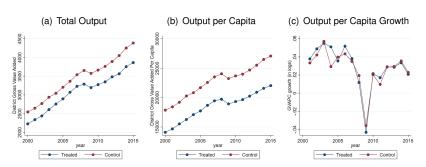


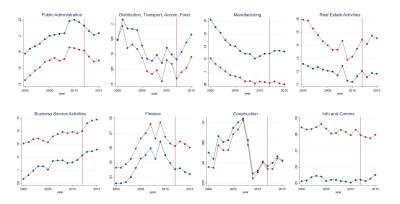
Figure 10: District-level Output (Real GVA)



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

## **District** × **Industry Trends**

Figure 11: District-Industry Output Shares (GVA<sub>ind,dist,year</sub>/GVA<sub>dist,year</sub>)

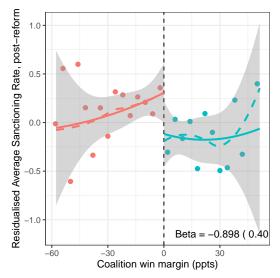


◆ Back: Parallel Trends

## **Estimated ATTs**

Table 3: Regression Results: ATT estimates

	Exit rate		Unemployment	Re-employment duration			
	total	employed	retired	$\overline{N_u}$	>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)
$\beta$ 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



Note. Dependent variable is the residuals from a regression of average sanctioining rate on socioeconomic controls: log population, share of women, share of working age, median earnings, and employment rate. Solid line is quadratic fit, dashed line is lpoly fit. Shaded area represents 95% CI.

