# Online Appendix

# Disincentive Effects of Unemployment Benefits and the Role of Caseworkers

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#### 1 Sorting of Teams

We examine the extent to which individuals are sorted into teams based on observed characteristics using three distinct measures. A dissimilarity index on the team level, an Intra Class Correlation coefficient (ICC) and a F-test for whether a model with team fixed effects is significantly different from a model with agency fixed effect only. Since we are interested in whether selection into teams is non-random within local UI agencies and not in whether there are differences in the pool of unemployed between UI agencies, we calculate all measures for team level selection relative to the selection on the local agency level. Table 2 brings these measures to the data.

**Dissimilarity Index.** The Dissimilarity Index compares for binary variables, how unevenly they are distributed between different categories or – transferred to our setting – teams. The dissimilarity index for a binary variable on the team level is defined as follows:

$$Dissim = \frac{1}{2} \sum_{t=1}^{N_{Teams}} \left| \frac{X_t^1}{X_{total}^1} - \frac{X_t^0}{X_{total}^0} \right|$$
(1)

Teams are indexed with t and  $N_{Teams}$  is the number of teams. Moreover,  $X_t^0$  ( $X_t^1$ ) refer to the numbers of individuals in team t for which the binary variable is 0 (1) and  $X_{total}^0$  ( $X_{total}^1$ ) is the number of individuals over all teams for which the binary variably equals 0 (1). This index is invariant to the share of individuals in one group (i.e. to the overall mean of the binary variable) and is bounded between 0 and 1 where 0 denotes a completely even distribution and 1 that individuals are completely clustered within teams. The index can be interpreted as the share of one group of individuals that would need to be relocated to different teams to achieve full equality.

To exclude any sorting that happens already on the agency level a we calculate this dissimilarity index on the agency level and calculate an average of those agency-level indices weighted with the agency size  $N_a$  (measured as number of quarterly inflows into UI at the respective agency) and N number of individuals in total:

$$Dissim = \frac{1}{N} \sum (Dissim_a \cdot N_a)$$
 (2)

Table 2 Column (1) shows this Dissimilarity Index for a number of individual characteristics. Of course even if the assignment into teams were perfectly random, teams would not all look identical within UI agencies due to small sample bias. As a benchmark we therefore provide a simple simulation in the bottom panel where we created a random dummy variable, which takes a value of 1 with drawing probability p, that is given in the table, and calculate the Dissimilarity Index for this variable given the team distribution. For smaller drawing probabilities, teams tend to be less similar simply by chance. For example with a drawing probability of p = 0.1 the dissimilarity index would take on a value of around 0.22 simply by chance. This value decreases with p until they reach about 0.06 for p = 0.5. The empirical outcomes we look at in the Table all have means in the ballpark of 0.5 while the calculated Dissimilarity Index are well above the simulated 0.06 value. Non-random assignment appears particularly severe for Age, Education and the prior wage.

Intra Class Correlation Coefficient (ICC): The ICC measures the share of the overall variance of one variable, that can be attributed to variation between teams. The measure can be calculated for binary as well as continuous variables. We calculate the ICC separately for the team-level t and the agency-level a by running the following random effects model on the individual level:

$$y_i = \alpha + \gamma_{t/a} + \epsilon_{it} \tag{3}$$

Where  $y_i$  is an outcome variable on the individual level,  $\gamma_{t/a}$  an error term on the teamlevel and  $\epsilon_{it}$  an individual-level error term. Under the assumption that  $E[\epsilon_{it}|\gamma_{t/a}] = 0$ , the intra class correlation coefficient is given as:

$$\rho = \frac{\sqrt{Var(\gamma_{t/a})}}{\sqrt{Var(\gamma_{t/a})} + \sqrt{Var(\epsilon)}}$$
(4)

 $\rho$  is again bounded between 0 and 1 where 0 refers to the situation where the measure is evenly distributed between teams and thus  $Var(\gamma_{t/a}) = 0$ . On the other extreme, where the value is 0, variation happens only between teams and is completely clustered on that level and thus  $Var(\epsilon) = 0$ .

Table 2 shows the ICC for a variety of outcomes calculated on the team level (column 2) and for comparison on the agency level (column 3). The fact that the team-level ICC are much higher than the agency level ICC again suggests significant non-random team assignments within the local UI agencies.

**F-Test:** To obtain a statistical test for whether the clustering on the team level is significantly different from that on the agency level, we first run the following equation on the team and agency level separately via fixed effects:

$$y_i = \alpha + \gamma_{t/a} + \epsilon_{it} \tag{5}$$

We want to test, whether team effects yield significantly additional information on top of agency fixed effects only. As teams are nested within agencies, this boils down to the following null hypothesis:

$$H_0: \ \gamma_t = \gamma_a \ \forall t \in a, \forall a \tag{6}$$

We can use an F-statistic of the following form to test whether team effects yield significantly additional information on top of agency fixed effects only:

$$\frac{(SSR_{agency} - SSR_{team})/r}{SSR_{agency}/df_{teams}} \sim F(r, df_{teams})$$
(7)

Here,  $SSR_{agency}$  refers to the sum of squared residuals from the agency fixed-effect regression (the restricted model),  $SSR_{team}$  refers to the sum of squared residuals form the team fixedeffect regression (the unrestricted model),  $df_{team}$  refers to the degrees of freedom in the teamlevel regression and r refers to the number of restrictions, which is on our case the number of teams less the number of agencies.

Given the large number of agencies and teams the critical values for this F-test is very close to 1 (given in the footnotes in the Table) for the conventional significance levels, while for all outcomes we find empirical F-statistics of at least 1.6 and higher. Thus we can clearly reject random assignments for any of the outcomes on the 1% (and much less) level. Furthermore we again see that non-random assignment is the most significant for age, occupation and prior earnings.

2 Appendix Tables and Figures

Table 1: Summary on Team x Quarter Level - Weighted with Team Size						
	(1)	(2)	(3)			
	excl. missing	excl. highly	exc. small			
	teams	impupted	and large			
	(baseline)	teams	teams			
Agency Size						
Mean N per Team	342.0	360.3	362.8			
-	[251.9]	[257.6]	[226.1]			
Mean N between age 45 and 55 per Team	66.3	70.9	70.5			
	[49.6]	[51.0]	[45.0]			
Mean N, final res per Team	47.3	50.8	50.3			
	[36.4]	[37.6]	[33.0]			
above 50 (dummy)	0.44	0.44	0.44			
	[0.12]	[0.12]	[0.092]			
>= 1 pers. below and above 50	0.91	0.91	0.96			
	[0.29]	[0.28]	[0.19]			
>= 1 pers. below and above 50, final res	0.98	0.98	0.99			
	[0.14]	[0.14]	[0.072]			
Individual Characteristics						
Non-German	0.11	0.11	0.10			
	[0.10]	[0.100]	[0.083]			
Female	0.42	0.41	0.42			
	[0.10]	[0.10]	[0.077]			
Years of Education	10.9	10.9	11.0			
	[1.28]	[1.28]	[1.23]			
Daily Pre-unemployment Wage	54.3	55.0	55.4			
	[13.2]	[13.2]	[11.6]			
Months ins Nonemp. $(cap at 36)$	17.5	17.4	17.2			
	[3.52]	[3.46]	[2.63]			
Months on UI	6.37	6.30	6.34			
	[1.37]	[1.27]	[1.08]			
Age in Years	36.8	36.9	37.0			
	[4.67]	[4.61]	[3.90]			
Team-Related Characteristics						
Missing Team (at spell-start)	0.061	0.020	0.059			
<u> </u>	[0.11]	[0.016]	[0.093]			
Number of Team X Quarters	72338	55899	15075			
Number of Teams	20388	17682	2594			
Number of Individuals	2837128	2342675	2565505			
	2001120	2012010	2000000			

Table 1: Summary on Team x Quarter Level -Weighted with Team Size

This table summarizes team-levels characteristics on the team x quarter level between 04/2008 and 06/2010.

	Dissimilarity-Index (1) Team-Level Within-Agency	Intra-Cla (2) Team Level	(3) Agency Level	F-Statistic (4) Team vs. Agency Level
Individual Characteristics				
Female	.087	.035	.010	1.685
Non-German	.163	178	044	1.997
Age (in years)	-	.183	.026	5.741
Dummy: Above median Age	.137	-	_	-
Education (in years)	-	.293	.020	10.906
Dummy: High Education	.210	-	-	-
Last Wage prior to UE	-	.143	.048	4.490
Dummy: Above Median Earnings	.133	-	-	-
Occupation (blossfeld 4)	.060	.081	002	2.138
Unemployment and UI Duratio	n			
Nonemp. duration (18 month cap)	-	.045	012	2.006
Dummy: Above-Median Nonemp.	.101	-	-	-
UI Duration	-	0	.014	1.909
Dummy: Above-Median UI	.096	-	-	-
Simulated I.I.D. Draws				
Drawing probability: .01	.224	.023	0	1.006
Drawing probability: .1	.094	0	0	1.004
Drawing probability: .5	.060	0	0	0.997

Table 2: Measures for Team-Selection

**Notes:** This table provides different measures on the selection into team x quarters for different observed characteristics. These measures are describen in more detail in appendix 1. Column one provides mean values for the agency-size weighted dissimilarity index, where for each agency-quarter the dissimilarity index is calculated as:  $Dissim = \frac{1}{2} \sum_{i=1}^{N} \left| \frac{X_i^i}{X_{total}^i} - \frac{X_i^0}{X_{total}^0} \right|$ . Column 2 provides Intra-Class Coefficients  $\rho$ , column 3 shows the same coefficient calculated on the agency-level. Column 4 provides F-Statistics testing for the significance of team fixed (unrestricted model) compared to a version with using agency-fixed effects only (restricted model). Corresponding critical values are 1.0068, 1.0088 and 1.0125 for the 10\%, 5\% and 1\% significance value respectively.

Table 3: The Effect of Potential UI Durations on Number of UI Entries per Age-Day

	(1) Linear Age Control	(2) Quadratic Age Control	(3) Cubic Age Control	(4) Age <sup>4</sup>	(5) Age <sup>5</sup>
Increase in Potential UI	Dur. from 12	to 15 Months			
$D(Age above Cutoff)$ $\frac{dy}{dP}$	2.49 $[0.77]^{**}$ 0.83 $[0.26]^{**}$	3.78 $[1.31]^{**}$ 1.26 $[0.44]^{**}$	3.25 [2.10] 1.08 [0.70]	4.47 [3.27] 1.49 [1.09]	$2.13 \\ [4.87] \\ 0.71 \\ [1.62]$
Effect relative to mean Observations Mean of Dep. Var.	$0.035 \\ 98405 \\ 71.4$	$0.053 \\ 98405 \\ 71.4$	$0.045 \\ 98405 \\ 71.4$	$0.063 \\ 98405 \\ 71.4$	$0.030 \\ 98405 \\ 71.4$

**Notes:** This table reports estimates of the effect of potential UI duration on the number of UI entries per age-day between 04/2008-06/2010. Coefficients from RD regressions. Local linear regressions (different slopes) on each side of cutoff. Bandwidth are 2 years on each side of the cutoff where 1 month on each side of cutoff is excluded. Standard errors clustered on day level († P<.1, \* P<.05, \*\* P<.01)).

	(1) Years of	(2) Female	(3) Foreign	(4) Tenure	$ \begin{array}{c} (5)\\ \text{Exp.} \end{array} $	(6) Pre
	Education		Citizen	Last Job	Last Job	Wage
D(Age above Cutoff)	-0.027 [0.036]	-0.0029	-0.0026	0.032	0.17	1.15
Effect relative to mean	-0.0024	[0.0075] -0.0061	[0.0039] -0.034	[0.11] 0.0051	[0.13] 0.0098	[0.58]* 0.018
Observations Mean of Dep. Var.	$98405 \\ 11.2$	$98405 \\ 0.47$	$98405 \\ 0.076$	$98405 \\ 6.29$	$98405 \\ 16.8$	$\begin{array}{r} 98405 \\ 63.1 \end{array}$
	(7) Time till Claim	(8) Occ Ten. Last Job	(9) Ind Ten. Last Job	(10) West Germany	(11) Children (Dummy)	(12) Married (Dummy)
D(Age above Cutoff)	-0.0058 [0.0056]	0.11 [0.13]	0.13 [0.11]	0.0043 [0.0028]	-0.0044 [0.0075]	-0.0032 [0.0071]
Effect relative to mean Observations Mean of Dep. Var.	-0.043 98405 0.13	$ \begin{array}{c} 0.0084 \\ 98405 \\ 12.6 \end{array} $	$ \begin{array}{c} 0.0098 \\ 98405 \\ 13.3 \end{array} $	$\begin{array}{c} 0.0053 \\ 98405 \\ 0.82 \end{array}$	-0.011 98405 0.38	-0.0049 98405 0.64

Table 4: Validity Test of the Regression Discontinuity Design: Smoothness of Predetermined Characteristics (with team x quarter fixed effects)

**Notes:** This table reports estimates of the effect of potential UI duration on several predetermined characteristics. Coefficients from RD regressions. Each coefficient is estimated in a separate regression discontinuity model that controls linearly for age with different slopes and bandwidth of two age years on each side of cutoff. UI entries between 04/2008-06/2010, one month at each side of the cutoff is excluded. Standard errors clustered on day level († P<.1, \* P<.05, \*\* P<.01)).

					1 0				
	(1) Unemp Ins. Benefit Duration	(2) Duration Nonemp to emp	(3) Non-Emp Duration 15 Months	(4) Non-Emp Duration 18 Months	(5) Ever emp. again	(6) Exit Prob 15 Mon	(7) Exit Prob 18 Mon	(8) Log Post Wage	(9) Log Wag Differenc
Panel A: No Controls	8								
D(Age above Cutoff)	0.95 [0.072]**	0.23 [0.11]*	0.12 [0.073]	0.17 [0.089]†	-0.0070 [0.0064]	-0.027 [0.0065]**	-0.013 [0.0065]*	0.013 [0.011]	0.0092 [0.0096]
Effect relative to mean	0.13	0.033	0.012	0.015	-0.011	-0.050	-0.023	0.0034	-0.046
Panel B: Controls									
D(Age above Cutoff)	$0.96$ $[0.071]^{**}$	0.29 [0.11]**	0.12 [0.072]†	0.17 [0.088]†	-0.0050 [0.0062]	-0.026 [0.0063]**	-0.012 [0.0063]†	0.0078 [0.0085]	0.0098 [0.0090]
Effect relative to mean	0.14	0.040	0.012	0.015	-0.0083	-0.049	-0.021	0.0020	-0.048
Panel C: Team Fixed	Effects								
D(Age above Cutoff)	1.00 [0.080]**	0.42 [0.12]**	0.16 [0.084]†	0.22 [0.10]*	-0.0046 [0.0072]	-0.031 [0.0073]**	-0.014 [0.0073]†	0.0099 [0.012]	0.0038 [0.011]
Effect relative to mean	0.14	0.058	0.017	0.020	-0.0075	-0.058	-0.025	0.0026	-0.019
Panel D: Team Fixed	Effects + C	ontrols							
D(Age above Cutoff)	1.00 [0.079]**	0.40 [0.12]**	0.16 [0.083]*	0.22 [0.10]*	-0.0051 [0.0071]	-0.032 [0.0072]**	-0.014 [0.0072]*	0.0043 [0.0093]	0.0065 $[0.0099]$
Effect relative to mean	0.14	0.057	0.017	0.020	-0.0084	-0.059	-0.025	0.0011	-0.032
Observations	98405	59965	98405	98405	98405	98405	98405	59592	57134

Table 5: The Effect of Potential UI Durations on UI and Nonemployment Duration – Different Controls

Notes: This table reports effects of potential UI duration on different measures for time out of work using different combinations of controls and team fixed effects. Coefficients from RD regressions. Local linear regressions (different slopes) on each side of cutoff. Standard errors clustered on day level ( $\dagger P < .1$ ,  $\star P < .05$ ,  $\star P < .01$ )).

	(1)	( <b>0</b> )	$(\mathbf{n})$	(4)	(٢)	(C)	(7)	(0)
	(1) Number of	(2) Number of	(3) Number of	(4) Looking for	(5) Labor Market	(6) Fraction	(7) Days in	(8) Days in
	Invitations	Signed Contracts	Job Referrals	Part and	Profile	of Sanctions	Placement	Training
		Signed Contracts	500 10001100	Fulltime Jobs	Index	at UI entry	Services	Program
Panel A: No Control	s							
D(Age above Cutoff)	0.029	0.024	-0.021	0.0016	0.100	-0.0032	0.063	-0.0051
	[0.019]	$[0.014]^{\dagger}$	[0.029]	[0.0031]	$[0.017]^{**}$	[0.0055]	[0.12]	[0.23]
Effect relative to mean	0.016	0.018	-0.017	0.024	0.045	-0.015	0.052	-0.0010
Panel B: Controls								
D(Age above Cutoff)	0.022	0.017	-0.043	0.0021	0.11	-0.0040	0.10	0.0044
	[0.018]	[0.013]	[0.029]	[0.0030]	$[0.017]^{**}$	[0.0055]	[0.12]	[0.23]
Effect relative to mean	0.012	0.012	-0.034	0.032	0.048	-0.019	0.086	0.00087
Panel C: Team Fixed	l Effects							
D(Age above Cutoff)	0.0062	0.014	-0.018	-0.0014	0.11	-0.0037	0.0013	0.077
	[0.018]	[0.014]	[0.033]	[0.0033]	$[0.020]^{**}$	[0.0062]	[0.13]	[0.26]
Effect relative to mean	0.0034	0.011	-0.014	-0.021	0.050	-0.018	0.0011	0.015
Panel D: Team Fixed	l Effects + 0	Controls						
D(Age above Cutoff)	0.0062	0.011	-0.026	-0.00088	0.11	-0.0046	-0.0025	0.031
. ,	[0.018]	[0.013]	[0.033]	[0.0032]	$[0.019]^{**}$	[0.0061]	[0.13]	[0.26]
Effect relative to mean	0.0034	0.0078	-0.020	-0.013	0.051	-0.022	-0.0021	0.0061
Observations	98405	98405	98405	98405	52098	98405	98405	98405

Table 6: Potential UI Duration on Assistance in Job-Search – Different Controls

Notes: This table reports effects for different measures of caseworker responses using different combinations of controls and team fixed effects. Coefficients from RD regressions. Local linear regressions (different slopes) on each side of cutoff. Standard errors clustered on day level ( $\dagger P < .1, * P < .05, ** P < .01$ )).

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		(1) UI	(2) Nonemp	(3) Caseworker	(4) Caseworker	(5) Sanctions	(6) Labor Market
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			-				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				minitations			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Duration			recording	Energ	mach
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Female						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		$[0.13]^{**}$	[0.17]	[0.030]			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Observations	45967		45967	45967	45967	24851
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Male						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Observations	52438	52438	52438	52438	52438	27247
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	< median pre-wage	0.93	0.12	-0.031	-0.060	-0.0094	0.080
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		[0.13]**	[0.16]	[0.028]	[0.041]	[0.0095]	[0.034]*
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Observations		49190	49190	49190	49190	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	> median pre-wage	1.04	0.21	0.049	0.014	0.00048	0.14
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		$[0.11]^{**}$	[0.15]	[0.026]†	[0.055]	[0.0092]	[0.029]**
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Observations		49215	49215	49215	49215	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Small Teams	1.06	0.18	0.017	-0.0091	0.0024	0.13
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		$[0.12]^{**}$	[0.16]	[0.027]	[0.049]	[0.0092]	$[0.031]^{**}$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Observations	52206	52206	52206	52206	52206	27079
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Large Teams	0.95	0.26	-0.0035	-0.025	-0.0092	0.093
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		$[0.11]^{**}$	$[0.14]^{\dagger}$	[0.024]	[0.044]	[0.0087]	$[0.026]^{**}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Observations	46199	46199	46199	46199	46199	25019
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	> 66 ind. on both sides	0.93	0.27	0.0015	-0.034	-0.00020	0.075
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		$[0.11]^{**}$	$[0.14]^{\dagger}$	[0.023]	[0.043]	[0.0084]	$[0.025]^{**}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Observations	46629	46629		46629	46629	25412
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\leq$ 66 ind. on one side		0.17	0.012	0.00043	-0.0075	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Observations	51776	51776	51776	51776	51776	26686
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Balanced on both sides						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$[0.11]^{**}$	$[0.14]^*$	[0.025]	[0.043]	[0.0086]	$[0.027]^{**}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Un-Balanced						
High Share Above 50 $0.96$ $0.063$ $-0.014$ $0.0098$ $0.0072$ $0.087$ $[0.11]^{**}$ $[0.14]$ $[0.023]$ $[0.044]$ $[0.0077]$ $[0.027]^{**}$ Observations5445054450544505445029273Low Share Above 50 $1.07$ $0.43$ $0.032$ $-0.053$ $-0.018$ $0.14$ $[0.12]^{**}$ $[0.15]^{**}$ $[0.027]$ $[0.050]$ $[0.010]^{\dagger}$ $[0.30]^{**}$							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Observations	49863	49863	49863	49863	49863	25831
Observations $54450$ $54450$ $54450$ $54450$ $54450$ $29273$ Low Share Above 50 $1.07$ $0.43$ $0.032$ $-0.053$ $-0.018$ $0.14$ $[0.12]^{**}$ $[0.15]^{**}$ $[0.027]$ $[0.050]$ $[0.010]^{\dagger}$ $[0.30]^{**}$	High Share Above 50						
Low Share Above 50 $1.07$ $0.43$ $0.032$ $-0.053$ $-0.018$ $0.14$ $[0.12]^{**}$ $[0.15]^{**}$ $[0.027]$ $[0.050]$ $[0.010]^{\dagger}$ $[0.30]^{**}$					L J	L J	
$[0.12]^{**}$ $[0.15]^{**}$ $[0.027]$ $[0.050]$ $[0.010]^{\dagger}$ $[0.030]^{**}$							
	Low Share Above 50						
Observations         43955         43955         43955         43955         22825							
	Observations	43955	43955	43955	43955	43955	22825

Table 7: Heterogeneity Table with team x quarter fixed effects

**Notes:** This table shows heterogeneity results for the main variables of interest. Heterogeneity results are obtained by splitting the baseline into two categories (using different splits based on different variables) and regressing the variable of interest for each of these group separately. Coefficients from RD regressions with a bandwidth of 2 years but excluding observations within 1 month on each side. Local linear regressions with different slopes on each side of cutoff. Standard errors clustered on day level ( $\dagger P < .1$ ,  $\star P < .05$ ,  $\star \star P < .01$ )).

	Bandwidth: 1 Year	Bandwidth: 0.5 Years	Quadratic Age Control	Bias Correction and robust SE (Calonico et al)*	Controlling for observable characteristics	Including close values	Placebo Test 2006/2007
UI Benefit Duration D(Age above Cutoff)	1.00 [0.14]**	$0.87$ $[0.26]^{**}$	$0.95$ $[0.13]^{**}$	0.98 [0.082]**	1.00 [0.079]**	1.04 $[0.079]$ **	-0.021 $[0.070]$
Observations	47397	21522	98405	98405	98405	102796	143746
Nonemployment Durat	tion						
D(Age above Cutoff)	0.44 [0.18]*	-0.016 [0.36]	0.28 [0.18]	0.22 [0.10]*	0.22 [0.10]*	0.30 [0.095]**	-0.0087 $[0.080]$
Observations	47397	21522	98405	98405	98405	102796	143746
Caseworker Invitations	8						
D(Age above Cutoff)	-0.0069 $[0.031]$	-0.0048 $[0.066]$	-0.0051 $[0.031]$	0.018 [0.019]	0.0062 [0.018]	0.0099 $[0.016]$	
Observations	47397	21522	98405	98405	98405	102796	
Caseworker Vacancy R	leferrals						
D(Age above Cutoff)	-0.012	0.079	0.023 [ $0.058$ ]	-0.014 $[0.033]$	-0.026 [0.033]	-0.013	
Observations	$[0.058] \\ 47397$	[0.13] 21522	[0.058] 98405	98405	98405	[0.030] 102796	_
Education Programs							
D(Age above Cutoff)	0.38 $[0.43]$	1.39 [0.17]	0.30 [0.083]	0.047 $[0.26]$	0.031 [0.26]	0.011 [0.24]	_
Observations	47397	21522	98405	98405	98405	102796	—
Sanctions							
D(Age above Cutoff)	-0.0013 [0.010]	0.0025 [0.020]	-0.0026 [0.0098]	-0.0014 $[0.0061]$	-0.0046 $[0.0061]$	-0.0040 [0.0056]	-0.0023 $[0.0046]$
Observations	47397	21522	98405	98405	98405	102796	143746
Labor Market Profile I	Index						
D(Age above Cutoff)	0.043 [0.034]	0.015 $[0.073]$	0.040 [0.035]	0.076 [0.019]**	0.11 [0.019]**	0.10 [0.018]**	
Observations	25124	11321	52098	52098	52098	54449	—

 Table 8: Sensitivity Analysis

**Notes:** Table shows effects of several robustness checks of UI extension on the main outcomes. All tables (except for placebo estimates) include team x quarter fixed effects. Standard-errors (clustered on the day level) are in brackets ( $\dagger P < .1$ ,  $\ast P < .05$ ,  $\ast \ast P < .01$ )). The placebo test is based on UI claimants around age 50 in 2006 and 2007, when there was no UI eligibility discontinuity at age 50 and maximum potential benefit durations were 12 months above and below the age 50 threshold. Dashes indicate that we do not have the relevant variables for the particular time period to estimate the specification.

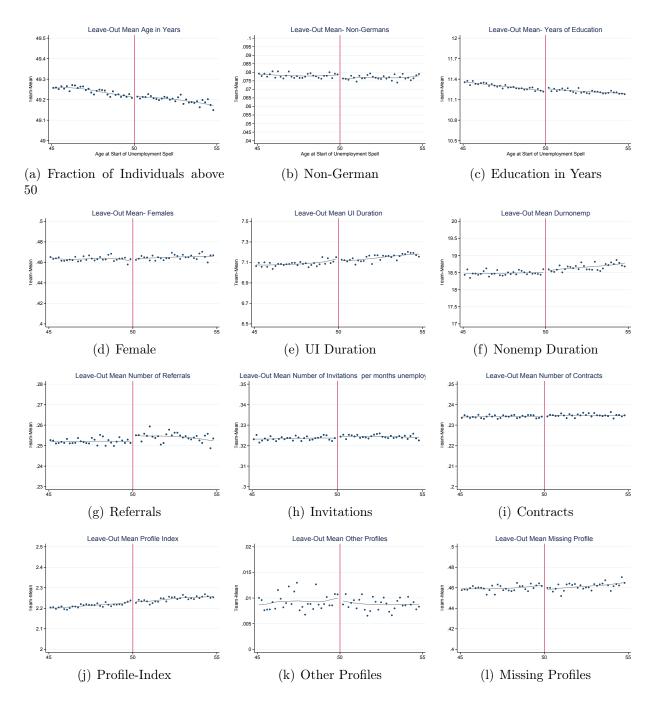
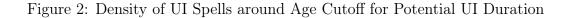
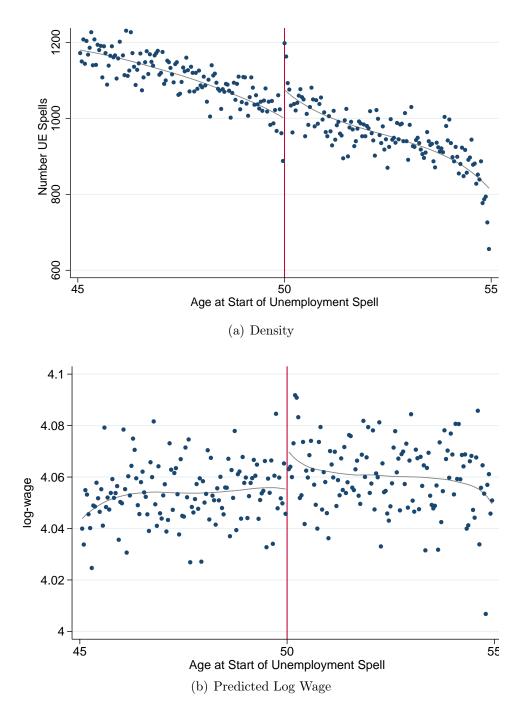


Figure 1: Spillover: Leave-Out Mean Team-Level Detailed

**Notes**: This figure shows leave-out means of different variables by age on the team-quarter level by age-bins. Binsize is 60 days.





**Notes**: This figure shows the smoothness of new UI benefit entries and predicted log wage around the age cutoff 50. Figure a) plots the frequency of new UI benefit. Figure b) plots the predicted daily log wage of the last employment spell from an OLS regression on predetermined covariates within a binize of two weeks. Explanatory variables are dummies for nationality, gender, children, marital status, East Germany and six educational groups, the duration till take-up, actual experience, occupational-, industry- and establishment tenure as well as seasonal (monthly) controls.

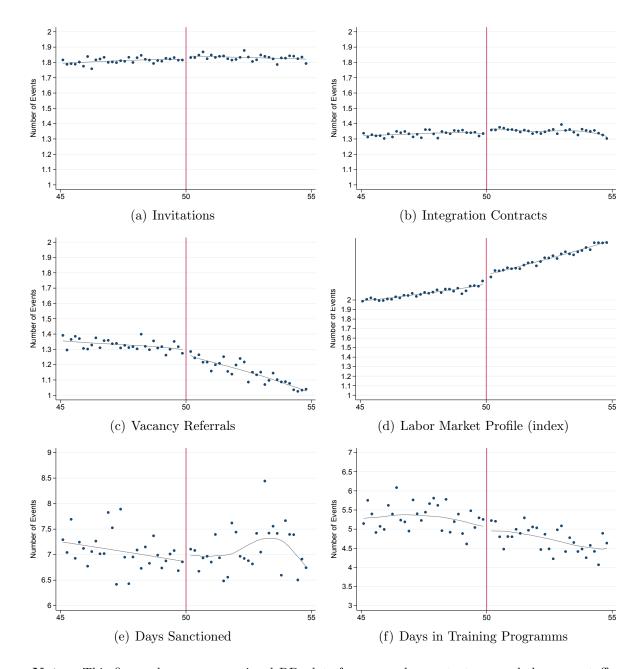


Figure 3: Caseworkers Resources / Actions around UI Cutoff -without FE

**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

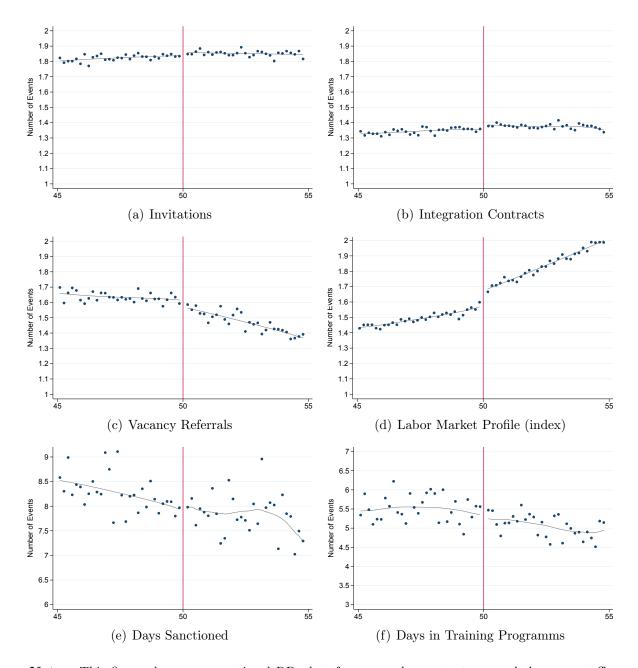


Figure 4: Caseworkers Resources / Actions around UI Cutoff - with Controls

**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

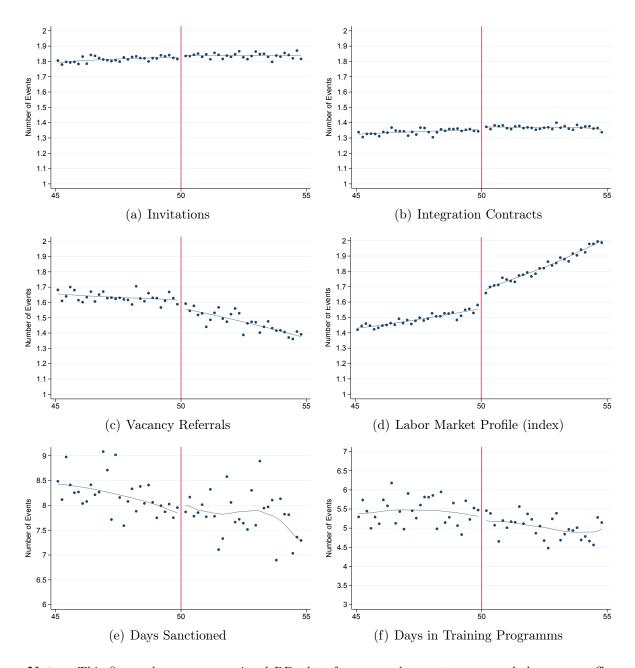
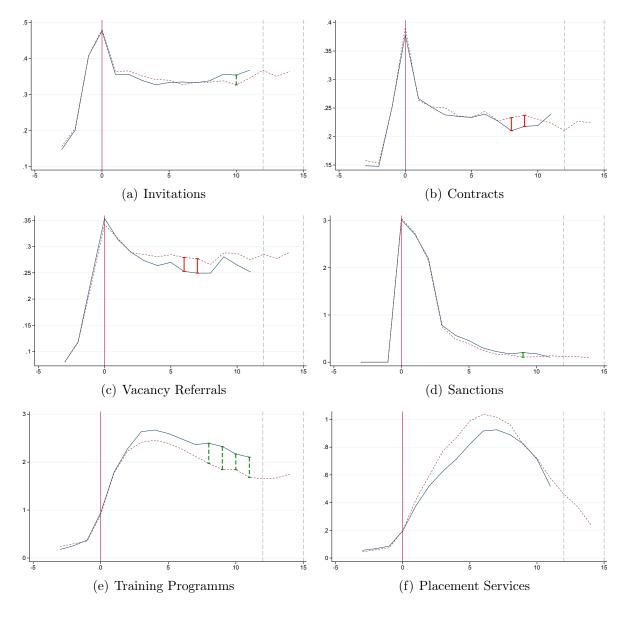


Figure 5: Caseworkers Resources / Actions around UI Cutoff - with FE & Controls

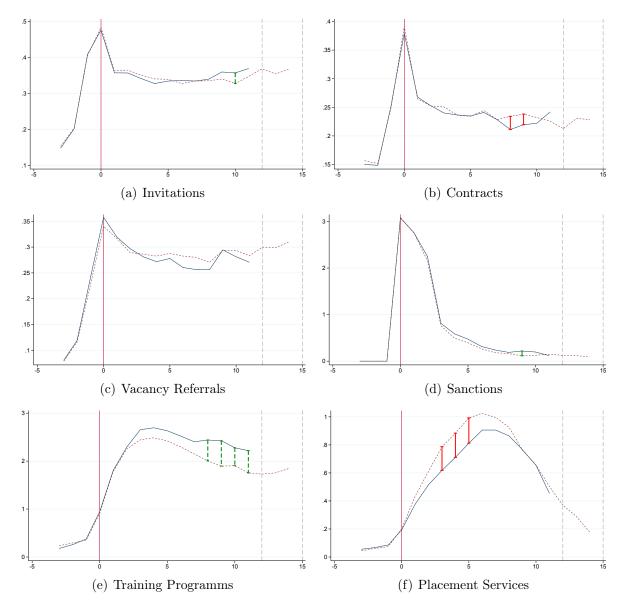
**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

Figure 6: The Effect of Potential UI Durations on Caseworker Interactions Throughout the Unemployment Spell -Raw



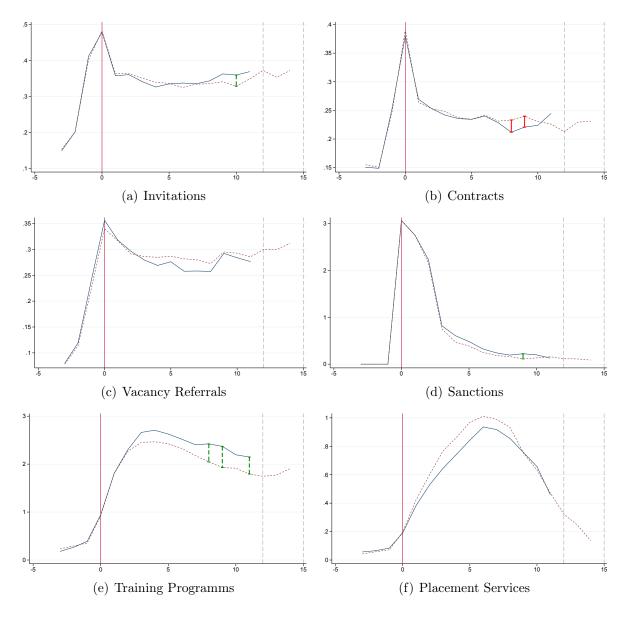
**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

Figure 7: The Effect of Potential UI Durations on Caseworker Interactions Throughout the Unemployment Spell -Controls Only



**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

Figure 8: The Effect of Potential UI Durations on Caseworker Interactions Throughout the Unemployment Spell - Team FE & Controls



**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

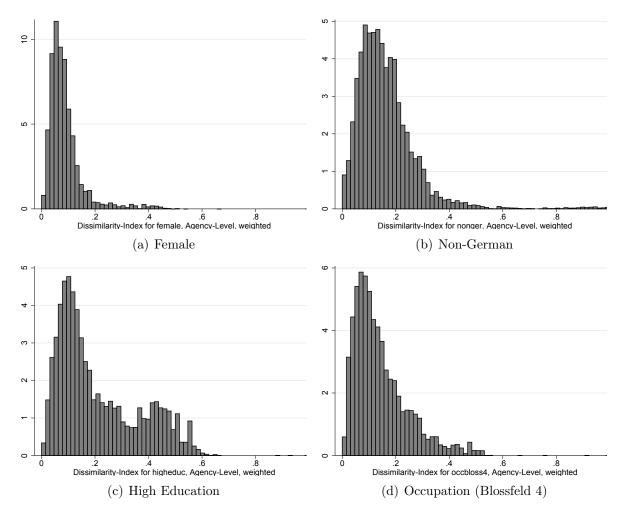


Figure 9: Distribution of Caseworker-Figures

**Notes**: This figure shows the distribution of Dissimilarity-Indizes on the agency-level weighted by number of individuals at the agency-level for selected Variables.

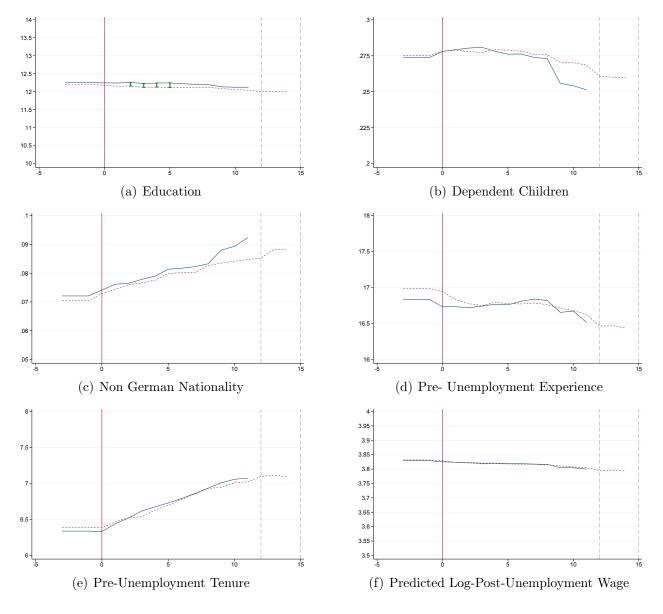


Figure 10: Dynamic Selection Based on Pre-Determined Unemployment Variables

**Notes**: This figure shows how different pre-determined variables evolve over the spell of unemployment conditioning on still receiving UI for both eligibility durations. The blue solid line indicate estimates for 12-, the red dashed line estimates for the 15 months eligibility duration. Vertical bars indicate significant differences on the 5% significance level for the respective months.

#### 3 Excluding Industries with Non-Smooth Densities

One concern in the paper is the small spike in the density right at the age threshold (in a 2 week window) and the slight shift in the density (about 1%) even when excluding the spike. In the main text we show that the results are very robust to excluding the spike and when controlling for observable characteristics of the workers.

As a further check, we investigated whether specific industries are responsible for the spike and the density shift at the age threshold. Germany is known for collective labor agreements that offer severance payment for workers above certain age thresholds to essentially buy them out of their job. These age threshold are typically for older workers closer to retirement (55 or 58 are very common age thresholds) but it is possible that these also occur occasionally at younger thresholds.

For this reason we inspected the age density figures of UI entrants from the 345 largest 5 digit industries. This appendix section replicates the main findings of the paper when excluding industries that exhibit a clear upward shift or spike in the density distribution.

#### 3.1 Selection Algorithm

We select the 345 largest industries based on the 5-digit industry classification of 2008 which represent about 85% of observations in our baseline sample. For each of those industries we examine visually the smoothness of the density around the age cutoff. We classify for each industry whether they fall into one of the following groups: (1) a clearly visible upward shift in density or (2) a spike but no shift in the density around the cutoff. 20 industries fall into category (1) and 33 industries fall into category (2). We create a sample that exclude all 53 industries falling into one of these groups, representing about 17% of the observations in our baseline sample. Table 9 lists the largest industries of the two categories. The remainder of this section replicates the main findings for this sample.

#### 3.2 Summary of Results based on the Restricted Sample

The restricted sample exhibits a very smooth density figure and a very smooth distribution (see Figure 11a and Table 10). Furthermore the pre-unemployment wage and other predetermined characteristics are very smooth around the age cutoff (Figure 11b and Table 11), while the estimated effect of the increase in PBD at the age cutoff remains very strong and significant (Table 13). There is also very little dynamic selection in this sample as shown in Figure 12. The main results on the allocation of caseworker resources above and below the age threshold remain essentially unchanged from the main paper (Figure 14 and 15 as well as Table 14). Overall our interpretation from this is that the small amount of potential selection around the threshold caused by some density shifts / spikes in a few industries (possibly due do collective labor agreements) does not drive the main result of no effect of potential UI duration on caseworker resource allocations.

# 3.3 Tables for Restricted Sample

 Table 9: List of Largest Industries in Excluded Categories

	clear shift in density (category 1)		spike but no shift (category 2)			
	(1) 5-digit code	(2) industry name	(3) 5-digit code	(4) industry name		
1	86101	Hospitals	70220	Management consultancy activities		
2	85592	Vocational training (adults)	47710	Clothes shops		
3	43220	Plumbing	10710	Manufacture of bread		
4	22290	Manufacturing of plastic	25110	Manufacture of metal structures		
5	62020	Computer consultancy	47730	Dispensing chemist (specialized stores)		
6	71122	Engineering in specific fields	47240	Bakeries		
$\overline{7}$	10131	Production of meat	66220	Insurance		
8	96021	Hairdressing	47750	Drugstores		
9	43320	Joinery installation	53100	Post Sector		
10	46141	Agents for machinery sale	47191	Retail sale in non-specialised stores		

This table displays in decreasing order the 10 largest 5-digit industries for each of the two excluded groups seperately. Industry size is measured by the number of individuals that are attached to it in the baseline sample. The 5-digit code refer to the 5-digit industry code that is attached to these industries based on the industry classification of 2008, whereas the industry name uses an abbreviation of the full industry name.

Table 10: The Effect of Potential UI Durations on Number of UI Entries per Age-Day

	(1) Linear Age Control	(2) Quadratic Age Control	(3) Cubic Age Control	(4) Age <sup>4</sup>	(5) Age <sup>5</sup>
Increase in Potential UI	Dur. from 12 t	to 15 Months			
D(Age above Cutoff)	-0.13 $[0.69]$	0.44 $[1.18]$	-0.38 $[1.92]$	2.27 $[2.98]$	-1.28 [4.51]
$\frac{dy}{dP}$	-0.042 [0.23]	0.15 [0.39]	-0.13 [0.64]	0.76 [0.99]	-0.43 [1.50]
Effect relative to mean	-0.0021	0.0072	-0.0063	0.038	-0.021
Observations Mean of Dep. Var.	$82731 \\ 60.2$	$82731 \\ 60.2$	$82731 \\ 60.2$	$82731 \\ 60.2$	$82731 \\ 60.2$

**Notes:** This table reports estimates of the effect of potential UI duration on the number of UI entries per age-day between 04/2008-06/2010. Coefficients from RD regressions. Local linear regressions (different slopes) on each side of cutoff. Bandwidth are 2 years on each side of the cutoff where 1 month on each side of cutoff is excluded. Standard errors clustered on day level ( $\dagger P < .1$ , \* P<.05, \*\* P<.01)).

	× ×	-		/		
	(1)	(2)	(3)	(4)	(5)	(6)
	Years of	Female	Foreign	Tenure	Exp.	$\operatorname{Pre}$
	Education		Citizen	Last Job	Last Job	Wage
D(Age above Cutoff)	-0.023	0.0010	-0.00092	-0.0032	0.043	0.86
	[0.039]	[0.0083]	[0.0044]	[0.12]	[0.14]	[0.64]
Effect relative to mean	-0.0021	0.0023	-0.012	-0.00051	0.0026	0.014
Observations	82731	82731	82731	82731	82731	82731
Mean of Dep. Var.	11.2	0.45	0.079	6.38	16.8	63.4
	(1)	(2)	(3)	(4)	(5)	(6)
	Time till	Occ Ten.	Ind Ten.	West	Children	Married
	Claim	Last Job	Last Job	Germany	(Dummy)	(Dummy)
D(Age above Cutoff)	-0.0097	-0.075	0.041	0.0032	-0.0076	-0.0049
/	[0.0064]	[0.15]	[0.12]	[0.0032]	[0.0083]	[0.0079]
Effect relative to mean	-0.071	-0.0060	0.0031	0.0039	-0.020	-0.0076
Observations	82731	82731	82731	82731	82731	82731
Mean of Dep. Var.	0.14	12.6	13.3	0.82	0.38	0.64

Table 11: Validity Test of the Regression Discontinuity Design: Smoothness of Predetermined Characteristics (with team x quarter fixed effects)

**Notes:** This table reports estimates of the effect of potential UI duration on several predetermined characteristics. Coefficients from RD regressions. Each coefficient is estimated in a separate regression discontinuity model that controls linearly for age with different slopes and bandwidth of two age years on each side of cutoff. UI entries between 04/2008-06/2010, one month at each side of the cutoff is excluded. Standard errors clustered on day level ( $\dagger P < .1$ , \* P < .05, \*\* P < .01)).

Table 12: Summary Statistics for UI Spells Age 48 to 52					
	(1) All Spells	(2) Eligigible for max PBD	$\begin{array}{c} (3)\\ \mathrm{Age} \ 48/49\\ \mathrm{and} \ \mathrm{max} \ \mathrm{PBD} \end{array}$	$\begin{array}{c} (4)\\ \mathrm{Age}\ 50/51\\ \mathrm{and}\ \mathrm{max}\ \mathrm{PBD} \end{array}$	
Individual Characteristics					
Female	0.47	0.45	0.45	0.46	
Non-German	0.095	0.079	0.081	0.078	
Age in Years	49.9	49.9	49.0	51.0	
Education in Years	11.1	11.2	11.2	11.2	
Unemployment and UI Duration					
Nonemployment Duration in Months (cap 36 Months)	19.2	18.3	17.5	19.1	
	[15.1]	[14.9]	[14.8]	[15.0]	
Nonemployment duration capped at 18 months	11.5	11.1	10.8	11.5	
	[6.95]	[6.96]	[6.96]	[6.95]	
Duration of UI Receipt (net)	6.99	7.08	6.45	7.76	
* ( )	[5.35]	[5.46]	[4.95]	[5.88]	
Pre- and Post UI Characteristics					
Next Daily Earnings after Unemployment	52.3	54.6	54.8	54.3	
Next Daily Lamings after Chemployment	[30.9]	[31.7]	[31.9]	[31.4]	
Last Daily Earnings prior to Unemployment	57.0	63.4	63.8	62.9	
Last Daily Lannings prior to chemployment	[41.9]	[41.6]	[41.4]	[41.7]	
Maximum UI Duration (imputed)	12.5	13.4	12	15	
	[3.04]	[1.50]	[0]	[0]	
Probability of Leaving Unemp. within first 18 Months	0.54	0.57	0.60	0.55	
	[0.50]	[0.49]	[0.49]	[0.50]	
Invitations amd Referrals					
Number of Invitations during UI Receipt	3.18	3.24	3.18	3.32	
Number of Contracts during UI Receipt	2.19	2.32	2.26	2.39	
Number of Referrals during UI Receipt	2.16	2.41	2.44	2.38	
Profile Assignment					
Market Profile at Beginning of UI Spell	0.14	0.16	0.18	0.14	
Activation Profile at Beginning of UI Spell	0.14 0.094	0.10	0.10	0.095	
Support Profile at Beginning of UI Spell	0.21	0.23	0.21	0.26	
Development Profile at Beginning of UI Spell	0.027	0.023	0.019	0.027	
Active Labor Market Programs					
Number of Days in Training Programms when on UI	13.6	15.1	15.6	14.5	
Number of Days in Flamming Flogrammis when on UI	4.59	4.76	4.01	5.57	
	1.00				
Team-Related Characteristics	947 0	250.0	961.6	9501	
Mean N per Team	347.2	359.0	361.6	356.1	
Mean N between age 45 and 55 per Team At least one worker on both sides of cutoff	$\begin{array}{c} 70.2 \\ 0.96 \end{array}$	$\begin{array}{c} 72.6 \\ 0.97 \end{array}$	$\begin{array}{c} 73.0 \\ 0.97 \end{array}$	$\begin{array}{c} 72.2 \\ 0.98 \end{array}$	
Number of observations	116904	82731	42991	39740	

Table 12: Summary Statistics for UI Spells Age 48 to 3	Table 12:	Summarv	Statistics	for	UI	Spells	Age	48	$\operatorname{to}$	5
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**Notes:** This Table summarizes the data for all UI entries from April 2008 to June 2010 where the worker age at the time of claiming UI was  $\geq 48$  and < 52 years. Column (1) shows all individuals with age between 48 and 52. Column (2) restricts this to workers who have worked at least 3 years during the last 5 years and took up UI benefits within 3 months after job loss, which assures that they are eligible to the maximum potential benefit duration (PBD) on each side of the cutoff. Standard deviations for selected variables are shown in brackets.

	(1)	(2)	(3)	(4)	(5)				
	Unemp Ins.	Duration	Non-Emp	Exit	Exit				
	Benefit	Nonemp	Duration	Prob	Prob				
	Duration	to emp	topcoded at	$15 { m Mon}$	$18 { m Mon}$				
			18 Months						
Increase in Potential UI Dur. from 12 to 15 Months									
D(Age above Cutoff)	1.04	0.49	0.26	-0.031	-0.013				
	$[0.088]^{**}$	$[0.14]^{**}$	$[0.11]^*$	$[0.0081]^{**}$	[0.0081]				
$\frac{dy}{dP}$	0.35	0.16	0.088	-0.010	-0.0043				
wi -	$[0.029]^{**}$	$[0.047]^{**}$	$[0.038]^*$	$[0.0027]^{**}$	[0.0027]				
Effect relative to mean	0.15	0.068	0.024	-0.058	-0.023				
$R^2$	.2229	.3053	.2050	.2088	.2128				
Adjusted $R^2$	.0569	.1026	.0351	.0397	.0446				
Observations	82731	50815	82731	82731	82731				
Mean of Dep. Var.	7.08	7.12	11.1	0.54	0.57				

Table 13: The Effect of Potential UI Durations on UI and Nonemployment Duration

**Notes:** Standard errors clustered on day level († P<.1, \* P<.05, \*\* P<.01)).Coefficients from RD regressions with a bandwidth of 2 years but excluding observations within 1 month on each side. Local linear regressions with different slopes on each side of cutoff controlling for caseworker-team by quarter fixed effects.

Caseworker Assistance and Search Selectivity								
	(1)	(2)	(3)	(4)				
	Number of	Number of	Number of	Looking for				
	Invitations	Signed Contracts	Job Referrals	Part and				
				Fulltime Jobs				
D(Age above Cutoff)	0.0046	0.014	-0.033	-0.0024				
	[0.020]	[0.016]	[0.036]	[0.0036]				
Effect relative to mean	0.0025	0.010	-0.026	-0.041				
Observations	82731	82731	82731	82731				
Mean of Dep. Var.	1.83	1.35	1.27	0.058				
Profile Assignments,	Sanctions, and	d Active Labor N	larket Progra	ms				
	(1)	(2)	(3)	(4)				
	Labor Market	Fraction	Days in	Days in				
	Profile	of Sanctions	Placement	Training				
	Index	at UI entry	Services	Programs				
D(Age above Cutoff)	0.11	-0.0051	-0.067	-0.010				
,	[0.022]**	[0.0070]	[0.15]	[0.29]				
Effect relative to mean	0.050	-0.024	-0.056	-0.0021				
Observations	43445	82731	82731	82731				
Mean of Dep. Var.	2.22	0.21	1.20	5.06				

### Table 14: Potential UI Duration on Assistance in Job-Search

**Notes:** Standard errors clustered on day level († P < .1, \* P < .05, \*\* P < .01)). Local linear regressions with different slopes on each side of cutoff controlling for caseworker-team by quarter fixed effects.

# 3.4 Figures for Restricted Sample

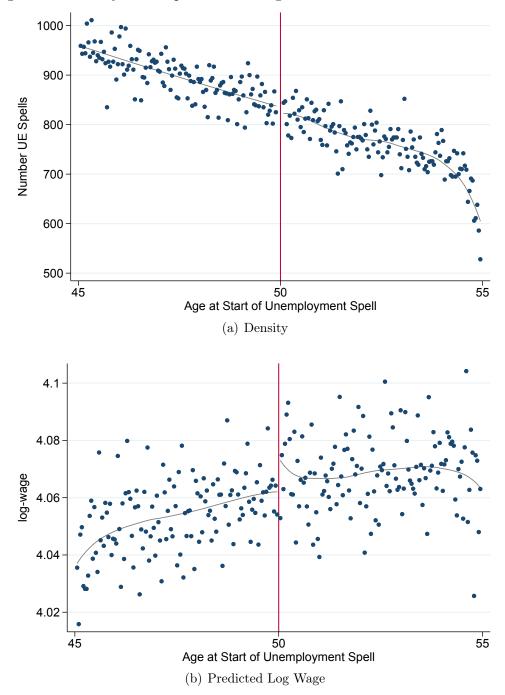


Figure 11: Density of UI Spells around Age Cutoff for Potential UI Duration

**Notes:** This figure shows the smoothness of new UI benefit entries and predicted log wage around the age cutoff 50. Figure a) plots the frequency of new UI benefit. Figure b) plots the predicted daily log wage of the last employment spell from an OLS regression on predetermined covariates within a binize of two weeks. Explanatory variables are dummies for nationality, gender, children, marital status, East Germany and six educational groups, the duration till take-up, actual experience, occupational-, industry- and establishment tenure as well as seasonal (monthly) controls.

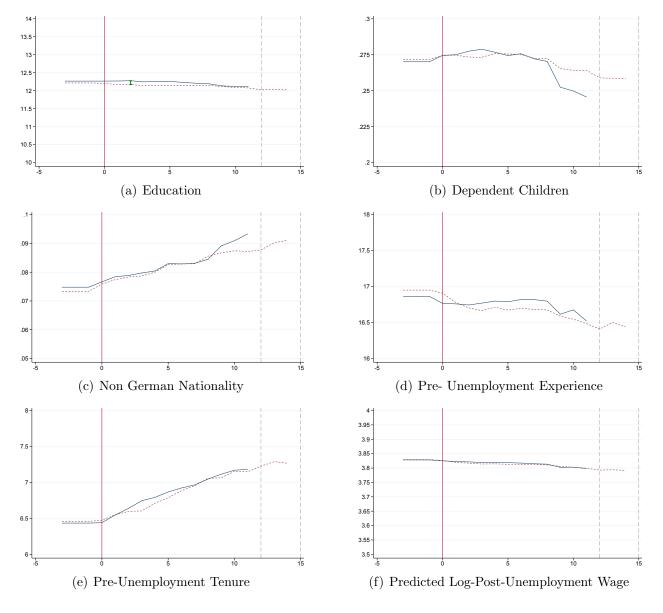


Figure 12: Dynamic Selection Based on Pre-Determined Unemployment Variables

**Notes**: This figure shows how different pre-determined variables evolve over the spell of unemployment conditioning on still receiving UI for both eligibility durations. The blue solid line indicate estimates for 12-, the red dashed line estimates for the 15 months eligibility duration. Vertical bars indicate significant differences on the 5% significance level for the respective months.

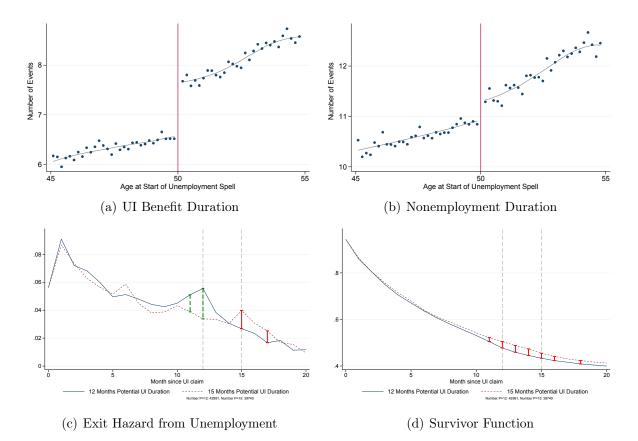


Figure 13: The Effect of Potential Benefit Durations on Job Finding

**Notes:** Panels (a) and (b) show cross-sectional RD plots for the number of days in UI benefit receipt (a) and the number of days in nonemployment capped at 18 months (b) controlling for team x quarter fixed effects. The binsize is set to 60 days. Panel (c) shows the monthly hazard function for for the two eligibility durations estimated at the cutoff (via pointwise RD regressions). Panel (d) shows the corresponding survival functions. Where the hazard and survival function are statistically significantly different from each other the figures shows vertical bars between the two lines.

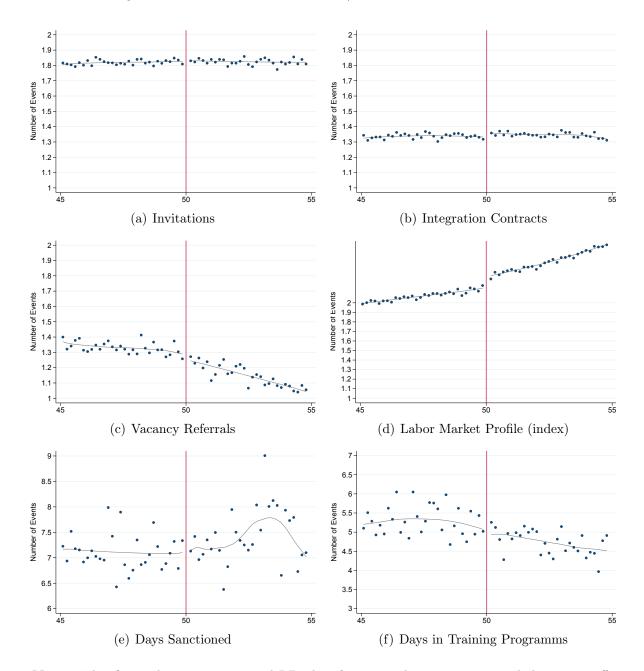


Figure 14: Caseworkers Resources / Actions around UI Cutoff

**Notes**: This figure shows cross-sectional RD plots for caseworker contacts around the age cutoff 50. The outcome variables are measured as number of contacts per month from 3 months prior to UI entry up to four months after UI entry for Figure a) - c). and the assigned index value of the four relevant labor market profiles (where one means good prospects and four bad prospects) at the beginning UI entry for figure d). The binsize is set to 60 days.

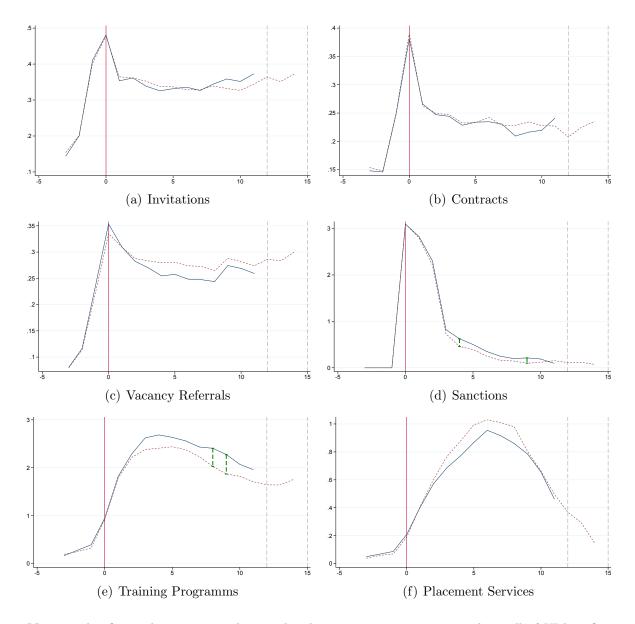


Figure 15: The Effect of Potential UI Durations on Caseworker Interactions Throughout the Unemployment Spell

**Notes**: This figure shows estimated counseling/monitoring intensities over the spell of UI benefit receipt (conditioned on receiving still UI benefits) for both eligibility durations. The blue solid line indicate estimates for 12-, the red dashed line estimates for the 15 months eligibility duration. Vertical bars indicate significant differences on the 5% significance level for the respective months. Figure a) - c) shows the number of interactions per months on UI, figure d) - f) number of days in the respective month. The regressions control for ixed effects on the team x quarter-level.