

‘The Effect of Social Benefit Reform on Educational Inequality’

Online Appendix

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Table A1. Unemployment and social benefit schemes, pre- and post-reform

	Pre-reform			Post-reform		
	Unemployment benefits (<i>Arbeitslosengeld</i>)	Unemployment assistance (<i>Arbeitslosenhilfe</i>)	Social assistance (<i>Sozialhilfe</i>)	Unemployment benefits (<i>Arbeitslosengeld</i>)	Unemployment assistance (<i>Arbeitslosengeld II</i>)	Social assistance (<i>Sozialhilfe</i>)
Aim	Status maintenance	Status maintenance	Poverty alleviation	Status maintenance	Poverty alleviation	Poverty alleviation
Benefit type	Earnings-related individual-level benefit	Earnings-related individual-level benefit	Means-tested household-level benefit	Earnings-related individual-level benefit	Means-tested household-level benefit	Means-tested household-level benefit
Eligibility	Unemployed with social insurance contributions	Unemployed who received unemployment benefits	Individuals in need	Unemployed with social insurance contributions	Individuals in need who are able to work	Individuals in need who are unable to work
Benefit level	60 percent (67 percent w/children) of previous earnings	53 percent (57 percent w/children) of previous earnings	Socio-cultural subsistence level	60 percent (67 percent w/children) of previous earnings	Socio-cultural subsistence level	Socio-cultural subsistence level
Maximum duration	12 months if age < 45 18 months if age 45-56 36 months if age > 56	n/a	n/a	12 months if age < 55 18 months if age > 54	n/a	n/a
Sanctions	n/a	Moderate	Strict	n/a	Strict	n/a

Note: Own illustration based on Bäcker and Koch (2004), Boucarde (2007), Hassel and Schiller (2010). White-shaded columns indicate unemployment insurance scheme(s) and grey-shaded columns indicate basic income support scheme(s).

Figure A1. Overview of pre- and post-treatment cohorts in main and placebo analyses

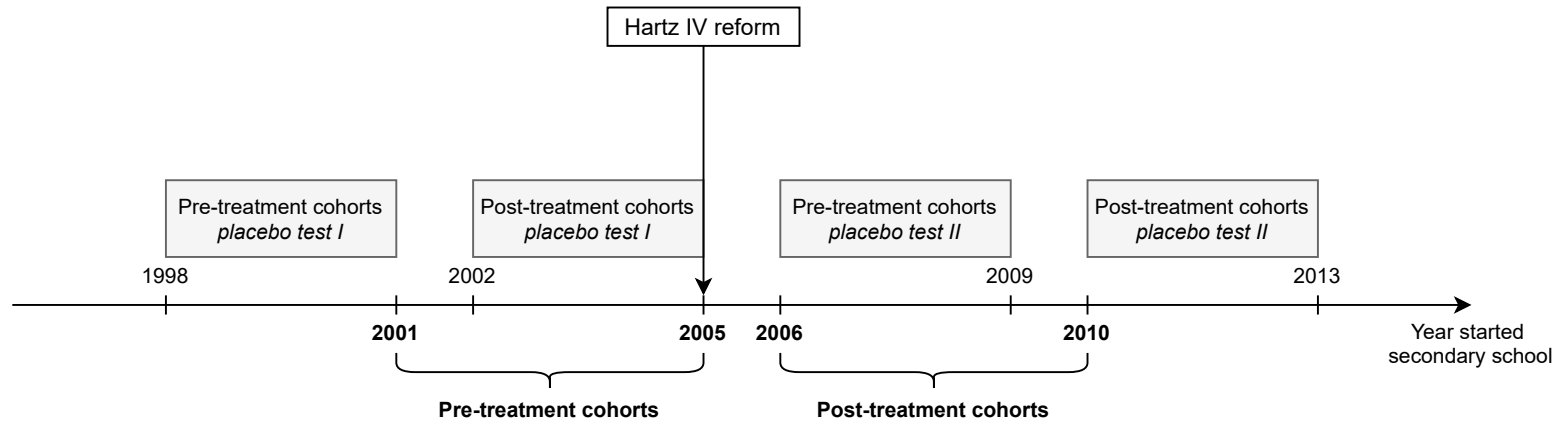
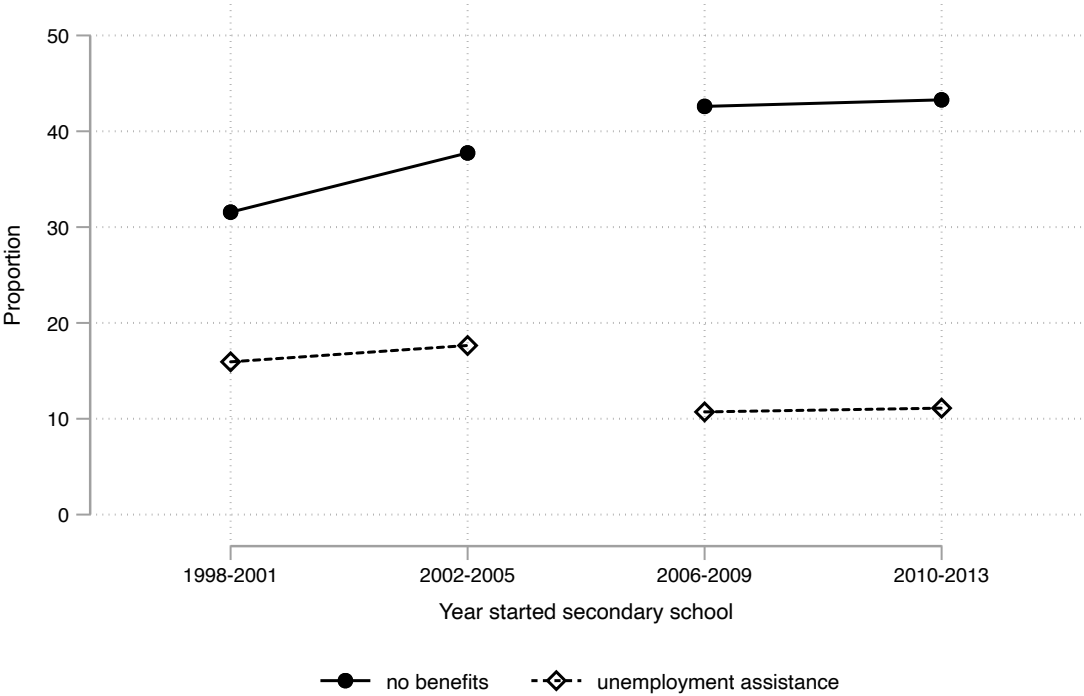


Table A2. Transition to academic secondary school track, placebo analyses (OLS)

	Placebo test I		Placebo test II	
	(1) Baseline	(2) + Reform interaction	(3) Baseline	(4) + Reform interaction
Parental benefit receipt (ref.: No benefits)				
Unemployment benefits	-0.161*** (0.038)	-0.159*** (0.052)	-0.251*** (0.041)	-0.271*** (0.061)
Unemployment assistance	-0.191*** (0.035)	-0.153*** (0.049)	-0.309*** (0.056)	-0.351*** (0.055)
Social assistance	-0.332*** (0.033)	-0.304*** (0.038)	-0.295*** (0.021)	-0.296*** (0.049)
Reform	0.069*** (0.020)	0.272** (0.135)	-0.001 (0.019)	-0.205 (0.131)
Unemployment benefits × Reform		0.009 (0.078)		0.049 (0.083)
Unemployment assistance × Reform		-0.079 (0.069)		0.068 (0.130)
Social assistance × Reform		-0.026 (0.057)		0.004 (0.055)
Age at transition (ref.: 9)				
10	0.159*** (0.038)	0.146*** (0.053)	0.078** (0.035)	0.126** (0.064)
11	0.147*** (0.038)	0.166*** (0.052)	-0.024 (0.036)	0.029 (0.065)
12	0.069 (0.047)	0.117* (0.069)	-0.178*** (0.043)	-0.102 (0.084)
13	0.133 (0.113)	0.444*** (0.168)	-0.168 (0.102)	0.930*** (0.133)
14	-0.240** (0.109)	-0.237 (0.181)	-0.411*** (0.089)	-0.124 (0.126)
10 × Reform		0.048 (0.076)		-0.074 (0.077)
11 × Reform		-0.013 (0.075)		-0.081 (0.078)
12 × Reform		-0.045 (0.096)		-0.104 (0.098)
13 × Reform		-0.473** (0.213)		-1.188*** (0.168)
14 × Reform		(omitted)		-0.365** (0.163)
Female	0.008 (0.019)	0.018 (0.027)	0.014 (0.017)	0.002 (0.030)
Female × Reform		-0.022 (0.038)		0.016 (0.036)
Year- and state-fixed effects	Yes	Yes	Yes	Yes
N	2,319	2,319	3,061	3,061

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Placebo test I: Pre-treatment cohorts 1998-2001, post-treatment cohorts: 2002-2005. Placebo test II: Pre-treatment cohorts 2006-2009, post-treatment cohorts: 2010-2013. Robust standard errors in parentheses. *Source:* SOEP 1984-2017, v.34.

Figure A2. Trends in transition to academic secondary school track by parental benefit receipt, pre- and post-reform



Source: SOEP 1984-2017, v.34.

Table A3. Predicted probabilities to transition to academic secondary school track (OLS)

	Model	Parental benefit receipt	Pr(academic track)		First differences	Second differences
			Pre-reform	Post-reform	$\Delta = \text{post} - \text{pre}$	$\Delta \text{UA} - \Delta \text{NB}$
(2)	+ Reform interaction	No benefit (NB)	0.367*** (0.013)	0.416*** (0.015)	0.045** (0.019)	-0.128* (0.066)
		Unemployment assistance (UA)	0.143*** (0.041)	0.065 (0.047)	-0.079 (0.062)	
(3)	+ Pre-benefit HH income	No benefit	0.350*** (0.012)	0.396*** (0.014)	0.045** (0.019)	-0.101 (0.071)
		Unemployment assistance	0.283*** (0.043)	0.227*** (0.051)	-0.056 (0.067)	
(4)	+ Socio-demographic	No benefit	0.358*** (0.014)	0.385*** (0.016)	0.027 (0.022)	-0.099 (0.069)
		Unemployment assistance	0.303*** (0.044)	0.231*** (0.050)	-0.072 (0.067)	
(5)	+ Benefit duration	No benefit	0.357*** (0.014)	0.380*** (0.017)	0.023 (0.022)	-0.119* (0.071)
		Unemployment assistance	0.327*** (0.046)	0.231*** (0.051)	-0.096 (0.069)	
(6)	+ Total HH income	No benefit	0.359*** (0.015)	0.375*** (0.017)	0.015 (0.023)	-0.016 (0.093)
		Unemployment assistance	0.307*** (0.061)	0.306*** (0.064)	-0.001 (0.088)	
(7)	+ Parental life satisfaction	No benefit	0.358*** (0.015)	0.374*** (0.017)	0.016 (0.023)	-0.015 (0.092)
		Unemployment assistance	0.320*** (0.060)	0.321*** (0.063)	0.001 (0.087)	

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Pre-treatment cohorts 2001-2005, post-treatment cohorts: 2006-2010. Standard errors in parentheses. Based on Table 2, columns (2)–(7). Predicted probabilities calculated at mean values of covariates.

Source: SOEP 1984-2017, v.34.

Table A4. Transition to academic secondary school track, full results (OLS)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Baseline	+ Reform interaction	+ Pre-benefit HH income	+ Socio- demographics	+ Benefit duration	+ Total HH income	+ Parental life satisfaction
Parental benefit receipt (ref.: No benefits)							
Unemployment benefits	-0.164*** (0.040)	-0.131** (0.052)	-0.060 (0.049)	-0.005 (0.045)	0.029 (0.048)	0.029 (0.048)	0.036 (0.048)
Unemployment assistance	-0.256*** (0.035)	-0.224*** (0.043)	-0.067 (0.045)	-0.055 (0.046)	-0.030 (0.047)	-0.052 (0.066)	-0.038 (0.065)
Social assistance	-0.308*** (0.028)	-0.334*** (0.034)	-0.141*** (0.038)	-0.124*** (0.045)	-0.107** (0.046)	-0.127* (0.066)	-0.125* (0.065)
Reform	0.042** (0.018)	0.311** (0.134)	0.323** (0.128)	0.754 (0.711)	0.747 (0.713)	0.729 (0.714)	0.664 (0.718)
Unemployment benefits × Reform		-0.094 (0.079)	-0.093 (0.076)	-0.102 (0.073)	-0.111 (0.079)	-0.092 (0.079)	-0.087 (0.079)
Unemployment assistance × Reform		-0.128* (0.066)	-0.101 (0.071)	-0.099 (0.069)	-0.119* (0.071)	-0.016 (0.093)	-0.015 (0.092)
Social assistance × Reform		0.058 (0.056)	0.047 (0.062)	0.044 (0.068)	0.037 (0.068)	0.145 (0.097)	0.156 (0.097)
Age at transition (ref.: 9)							
10	0.146*** (0.037)	0.160*** (0.047)	0.134*** (0.045)	0.129*** (0.046)	0.128*** (0.046)	0.130*** (0.046)	0.131*** (0.046)
11	0.100*** (0.037)	0.159*** (0.047)	0.156*** (0.044)	0.156*** (0.046)	0.156*** (0.046)	0.157*** (0.046)	0.157*** (0.046)
12	0.015 (0.047)	0.090 (0.059)	0.100* (0.057)	0.110* (0.057)	0.110* (0.057)	0.112** (0.057)	0.113** (0.057)
13	0.056 (0.127)	0.041 (0.128)	0.086 (0.125)	0.126 (0.128)	0.127 (0.129)	0.129 (0.129)	0.128 (0.129)
14	-0.172** (0.073)	-0.234* (0.120)	-0.156 (0.116)	-0.150 (0.134)	-0.178 (0.138)	-0.176 (0.138)	-0.179 (0.138)
10 × Reform		-0.038 (0.075)	-0.024 (0.074)	-0.049 (0.070)	-0.048 (0.069)	-0.045 (0.070)	-0.050 (0.070)
11 × Reform		-0.143* (0.075)	-0.132* (0.073)	-0.134* (0.070)	-0.134* (0.070)	-0.131* (0.070)	-0.135* (0.070)
12 × Reform		-0.193** (0.095)	-0.183** (0.092)	-0.183** (0.090)	-0.186** (0.090)	-0.181** (0.090)	-0.184** (0.091)
13 × Reform		0.842*** (0.177)	0.771*** (0.172)	0.798*** (0.175)	0.778*** (0.178)	0.714*** (0.180)	0.718*** (0.180)
14 × Reform		0.043 (0.167)	0.013 (0.161)	0.029 (0.183)	0.047 (0.186)	0.083 (0.185)	0.026 (0.188)
Female	0.009 (0.018)	0.008 (0.023)	0.009 (0.022)	0.026 (0.022)	0.025 (0.022)	0.025 (0.022)	0.025 (0.022)
Female × Reform		-0.005 (0.036)	0.007 (0.035)	-0.009 (0.033)	-0.010 (0.034)	-0.010 (0.034)	-0.008 (0.034)
Pre-benefit income			0.014*** (0.001)	0.006*** (0.001)	0.006*** (0.001)	-0.002 (0.016)	-0.003 (0.016)
Pre-benefit income × Reform			-0.002 (0.002)	0.001 (0.002)	0.001 (0.002)	0.031 (0.019)	0.032* (0.019)
HH members age 0-14				0.019 (0.013)	0.020 (0.013)	0.020 (0.013)	0.018 (0.013)
HH members age 0-14 × Reform				-0.003 (0.019)	-0.003 (0.019)	-0.002 (0.019)	-0.002 (0.019)
Parental age				0.023 (0.021)	0.019 (0.021)	0.019 (0.021)	0.019 (0.021)
Parental age square				-0.000 (0.000)	-0.000 (0.000)	-0.000 (0.000)	-0.000 (0.000)

Parental age	-0.028	-0.025	-0.024	-0.022
× Reform	(0.035)	(0.035)	(0.035)	(0.035)
Parental age square	0.000	0.000	0.000	0.000
× Reform	(0.000)	(0.000)	(0.000)	(0.000)
Parental migration background	0.015	0.013	0.012	0.009
	(0.027)	(0.027)	(0.027)	(0.027)
Parental migration background	-0.015	-0.014	-0.012	-0.007
× Reform	(0.042)	(0.042)	(0.042)	(0.042)
Single parent	0.017	0.022	0.022	0.021
	(0.036)	(0.036)	(0.036)	(0.037)
Single parent × Reform	0.001	-0.004	0.003	-0.002
	(0.055)	(0.055)	(0.056)	(0.056)
Parental education (ref. Primary)				
Lower secondary	0.035	0.035	0.036	0.032
	(0.035)	(0.035)	(0.035)	(0.035)
Upper secondary	0.079*	0.076*	0.077*	0.074*
	(0.043)	(0.043)	(0.043)	(0.043)
Post-secondary	0.247***	0.249***	0.250***	0.245***
	(0.047)	(0.047)	(0.046)	(0.047)
Lower secondary	-0.063	-0.064	-0.064	-0.062
× Reform	(0.062)	(0.062)	(0.062)	(0.062)
Upper secondary	0.014	0.017	0.015	0.018
× Reform	(0.073)	(0.073)	(0.073)	(0.073)
Post-secondary	0.017	0.014	0.015	0.015
× Reform	(0.079)	(0.080)	(0.079)	(0.079)
Parental social class (ref.: Salaried)				
Intermediate	-0.100***	-0.102***	-0.102***	-0.100***
	(0.033)	(0.033)	(0.033)	(0.033)
Working	-0.189***	-0.188***	-0.188***	-0.185***
	(0.034)	(0.034)	(0.034)	(0.034)
Never worked	-0.151**	-0.143**	-0.146**	-0.131**
	(0.067)	(0.067)	(0.067)	(0.067)
Intermediate × Reform	0.061	0.063	0.063	0.065
	(0.050)	(0.050)	(0.050)	(0.050)
Working × Reform	0.117**	0.117**	0.120**	0.121**
	(0.053)	(0.053)	(0.053)	(0.053)
Never worked × Reform	0.164	0.145	0.160	0.149
	(0.109)	(0.109)	(0.108)	(0.107)
Benefit duration (ref. 1 year)				
2 years		0.015	0.015	0.017
		(0.036)	(0.036)	(0.035)
3 years		0.052	0.051	0.053
		(0.041)	(0.041)	(0.041)
4 years		0.055*	0.055*	0.058**
		(0.030)	(0.030)	(0.030)
2 years × Reform		-0.096	-0.099	-0.104*
		(0.062)	(0.062)	(0.062)
3 years × Reform		-0.080	-0.075	-0.080
		(0.070)	(0.070)	(0.070)
4 years × Reform		-0.051	-0.053	-0.059
		(0.049)	(0.049)	(0.049)
Total HH income			0.008	0.008
			(0.016)	(0.016)
Total HH income × Reform			-0.031	-0.031
			(0.019)	(0.019)

Parental life satisfaction							0.015**
							(0.007)
Parental life satisfaction × Reform							-0.000 (0.010)
Year- and state-fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2,800	2,800	2,800	2,800	2,800	2,800	2,800

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Pre-treatment cohorts 2001-2005, post-treatment cohorts: 2006-2010. Robust standard errors in parentheses. Net equivalised pre-benefit and total HH income in thousands (2005€). *Source:* SOEP 1984-2017, v.34.

Table A5. Transition to academic secondary school track (Logit)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Baseline	+ Reform interaction	+ Pre-benefit HH income	+ Socio- demographics	+ Benefit duration	+ Total HH income	+ Parental life satisfaction
Parental benefit receipt (ref.: No benefits)							
Unemployment benefits	-0.807*** (0.226)	-0.641** (0.281)	-0.302 (0.276)	-0.014 (0.275)	0.177 (0.292)	0.177 (0.292)	0.229 (0.297)
Unemployment assistance	-1.420*** (0.266)	-1.225*** (0.299)	-0.472 (0.315)	-0.483 (0.348)	-0.346 (0.354)	-0.341 (0.524)	-0.274 (0.519)
Social assistance	-1.982*** (0.315)	-2.837*** (0.745)	-1.887** (0.755)	-1.798** (0.826)	-1.704** (0.838)	-1.701* (0.977)	-1.702* (0.989)
Reform	0.191** (0.083)	1.567** (0.663)	1.566** (0.698)	4.220 (4.552)	4.136 (4.595)	4.241 (4.617)	4.014 (4.647)
Unemployment benefits × Reform		-0.496 (0.469)	-0.526 (0.464)	-0.700 (0.497)	-0.761 (0.538)	-0.574 (0.542)	-0.554 (0.537)
Unemployment assistance × Reform		-1.207 (0.783)	-0.978 (0.800)	-1.084 (0.820)	-1.203 (0.826)	-0.419 (0.972)	-0.377 (0.965)
Social assistance × Reform		1.181 (0.834)	1.260 (0.859)	1.091 (0.930)	1.071 (0.939)	1.991* (1.189)	2.115* (1.211)
Total HH income						-0.002 (0.148)	0.009 (0.148)
Total HH income × Reform						-0.249 (0.199)	-0.266 (0.202)
Parental life satisfaction							0.092** (0.040)
Parental life satisfaction × Reform							0.001 (0.059)
Year- and state-fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2,800	2,800	2,800	2,800	2,800	2,800	2,800

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Pre-treatment cohorts 2001-2005, post-treatment cohorts: 2006-2010. Robust standard errors in parentheses. Total HH income in thousands (2005€). All models control for child's sex, age at transition from primary to secondary school, state- and year-fixed effects. Socio-demographic controls include number of children age 0-14 in the household, living with single parent, parental age(-squared), parental migration background, parental education, and parental social class one year before transition. *Source:* SOEP 1984-2017, v.34.

Table A6. Predicted probabilities to transition to academic secondary school track (Logit)

	Model	Parental benefit receipt	Pr(academic track)		First differences	Second differences
			Pre-reform	Post-reform	$\Delta = \text{post} - \text{pre}$	$\Delta \text{UA} - \Delta \text{NB}$
(2)	+ Reform interaction	No benefit (NB)	0.361*** (0.013)	0.425*** (0.017)	0.065*** (0.021)	-0.146** (0.059)
		Unemployment assistance (UA)	0.142*** (0.036)	0.061 (0.041)	-0.081 (0.054)	
(3)	+ Pre-benefit HH income	No benefit	0.337*** (0.013)	0.400*** (0.017)	0.063*** (0.022)	-0.169 (0.105)
		Unemployment assistance	0.241*** (0.056)	0.135 (0.085)	-0.105 (0.102)	
(4)	+ Socio-demographic	No benefit	0.329*** (0.018)	0.377*** (0.016)	0.048* (0.028)	-0.168* (0.099)
		Unemployment assistance	0.232*** (0.061)	0.112 (0.073)	-0.120 (0.096)	
(5)	+ Benefit duration	No benefit	0.327*** (0.018)	0.369*** (0.022)	0.042 (0.029)	-0.188* (0.102)
		Unemployment assistance	0.256*** (0.067)	0.111 (0.073)	-0.145 (0.099)	
(6)	+ Total HH income	No benefit	0.327*** (0.002)	0.352*** (0.024)	0.025 (0.032)	-0.079 (0.168)
		Unemployment assistance	0.257*** (0.092)	0.202 (0.130)	-0.054 (0.159)	
(7)	+ Parental life satisfaction	No benefit	0.325*** (0.022)	0.349*** (0.024)	0.024 (0.033)	-0.074 (0.174)
		Unemployment assistance	0.268*** (0.063)	0.219 (0.137)	-0.050 (0.166)	

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Pre-treatment cohorts 2001-2005, post-treatment cohorts: 2006-2010. Standard errors in parentheses. Based on Table A5, columns (2)–(7). Predicted probabilities calculated at mean values of covariates.

Source: SOEP 1984-2017, v.34.

Table A7. Transition to academic secondary school track, restricted sample (OLS)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Baseline	+ Reform interaction	+ Pre-benefit HH income	+ Socio- demographics	+ Benefit duration	+ Total HH income	+ Parental life satisfaction
Parental benefit receipt (ref.: No benefits)							
Unemployment benefits	-0.164*** (0.040)	-0.130** (0.052)	-0.059 (0.049)	-0.004 (0.045)	0.031 (0.048)	0.031 (0.048)	0.038 (0.048)
Unemployment assistance	-0.254*** (0.036)	-0.219*** (0.045)	-0.053 (0.047)	-0.041 (0.047)	-0.016 (0.049)	-0.033 (0.068)	-0.019 (0.068)
Social assistance	-0.308*** (0.028)	-0.333*** (0.034)	-0.140*** (0.038)	-0.121*** (0.045)	-0.104** (0.046)	-0.118* (0.066)	-0.116* (0.066)
Reform	0.042** (0.018)	0.311** (0.134)	0.325** (0.128)	0.743 (0.712)	0.736 (0.714)	0.718 (0.715)	0.650 (0.719)
Unemployment benefits × Reform		-0.095 (0.079)	-0.094 (0.076)	-0.103 (0.073)	-0.113 (0.079)	-0.094 (0.079)	-0.088 (0.079)
Unemployment assistance × Reform		-0.141** (0.068)	-0.117 (0.073)	-0.114 (0.072)	-0.138* (0.073)	-0.039 (0.096)	-0.036 (0.096)
Social assistance × Reform		0.057 (0.056)	0.046 (0.062)	0.041 (0.068)	0.034 (0.068)	0.136 (0.098)	0.147 (0.098)
Total HH income						0.006 (0.016)	0.006 (0.016)
Total HH income × Reform						-0.028 (0.019)	-0.029 (0.019)
Parental life satisfaction							0.015** (0.007)
Parental life satisfaction × Reform							0.001 (0.010)
Year- and state-fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	2,792	2,792	2,792	2,792	2,792	2,792	2,792

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Pre-treatment cohorts 2001-2005, post-treatment cohorts: 2006-2010. Robust standard errors in parentheses. Total HH income in thousands (2005€). All models control for child's sex, age at transition from primary to secondary school, state- and year-fixed effects. Socio-demographic controls include number of children age 0-14 in the household, living with single parent, parental age(-squared), parental migration background, parental education, and parental social class one year before transition. Sample only includes children of unemployment assistance recipients who would be eligible to unemployment assistance according to post-reform criteria. *Source:* SOEP 1984-2017, v.34.

Table A8. Transition to academic secondary school track, long-term effects (OLS)

	(1)	(2)	(3)	(4)	(5)	(6)
	Baseline	+ Reform interaction	+ Pre-benefit HH income	+ Socio-demographic	+ Total HH income	+ Parental life satisfaction
Parental benefit receipt (ref.: No benefits)						
Unemployment benefits	-0.325*** (0.069)	-0.331*** (0.080)	-0.223*** (0.076)	-0.187*** (0.070)	-0.188*** (0.070)	-0.193*** (0.071)
Unemployment assistance	-0.306*** (0.056)	-0.266*** (0.065)	-0.076 (0.069)	-0.030 (0.068)	-0.046 (0.101)	-0.049 (0.105)
Social assistance	-0.406*** (0.039)	-0.441*** (0.044)	-0.164*** (0.051)	-0.160** (0.068)	-0.186* (0.098)	-0.186* (0.101)
Reform	0.071*** (0.025)	0.253 (0.180)	0.355* (0.182)	1.269 (0.995)	1.264 (0.998)	1.149 (1.015)
Unemployment benefits × Reform		0.047 (0.159)	0.052 (0.154)	0.067 (0.153)	0.079 (0.161)	0.091 (0.161)
Unemployment assistance × Reform		-0.290** (0.117)	-0.328*** (0.125)	-0.304** (0.120)	-0.125 (0.195)	-0.101 (0.206)
Social assistance × Reform		0.115 (0.081)	0.014 (0.091)	0.064 (0.108)	0.273 (0.185)	0.301 (0.190)
Year- and state-fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
N	1,769	1,769	1,769	1,769	1,769	1,769

Note: * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$. Long-term effects calculated as sums of coefficients one, two and three years before transition to secondary school. Pre-treatment cohorts 2001-2005, post-treatment cohorts: 2008-2010. Children who transitioned in 2006 and 2007 are excluded as the period of parental long-term benefit receipt covers both pre- as well as post-reform period. Standard errors in parentheses. All models control for child's sex, age at transition from primary to secondary school, state- and year-fixed effects. Socio-demographic controls include parental age(-squared), parental migration background, parental education one year before transition and number of children age 0-14 in the household, living with single parent, parental social class one, two and three years before transition. *Source:* SOEP 1984-2017, v.34.