

Analyse der Survey-Daten von CHILDREN for a better World e.V.

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Datenaufbereitung

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Datenaufbereitung

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Datenaufbereitung

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Datenaufbereitung

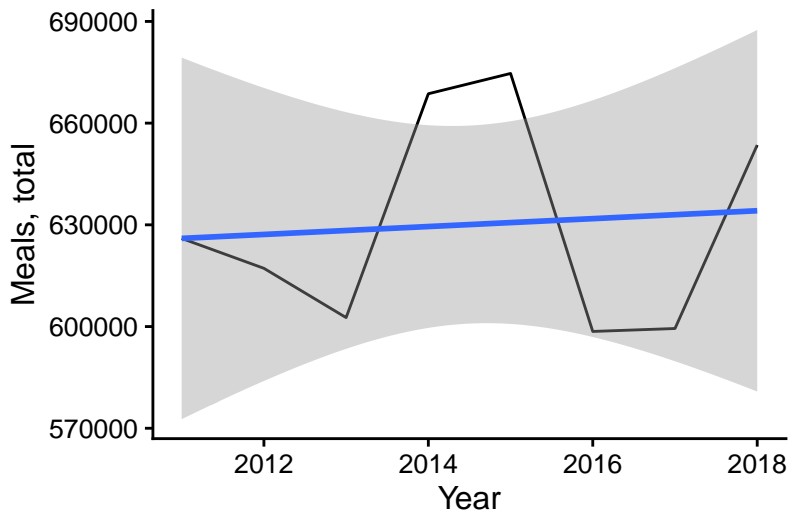
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Zusammenfassende Statistiken

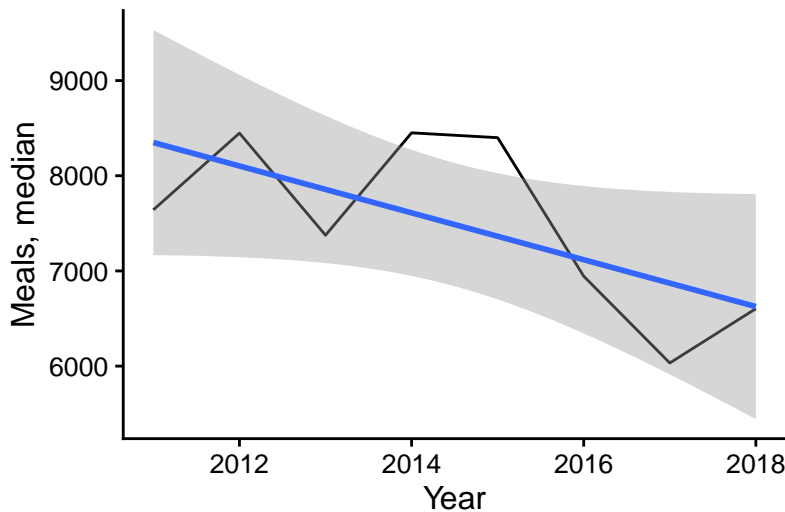
	Jahr	Begünstigte, Mittagstisch	Begünstigte, Entdeckerfonds	Einrichtungen, Mittagstisch	Einricht
1	2011	3748.0		52	
2	2012	3556.0	2803.0	51	
3	2013	4015.0	2823.0	55	
4	2014	4685.0	2752.0	55	
5	2015	5857.0	3823.0	55	
6	2016	3075.0	3819.0	59	
7	2017	4895.0	4150.0	64	
8	2018	5102.5	6911.0	68	

Table: Summary Statistics

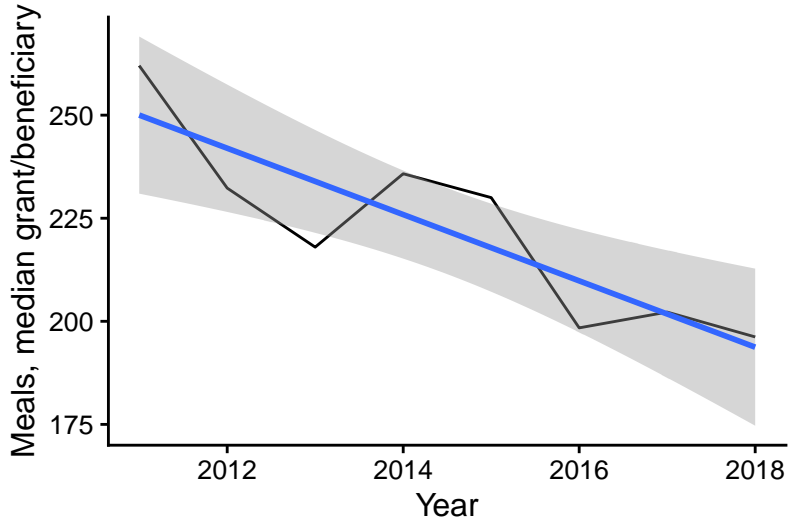
Dynamik der Fördersumme, Mittagstisch: Summe



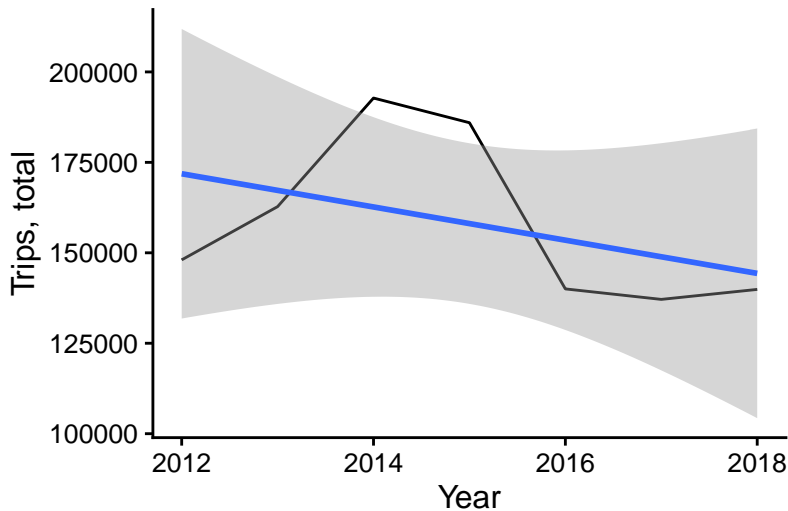
Dynamik der Fördersumme, Mittagstisch: Median



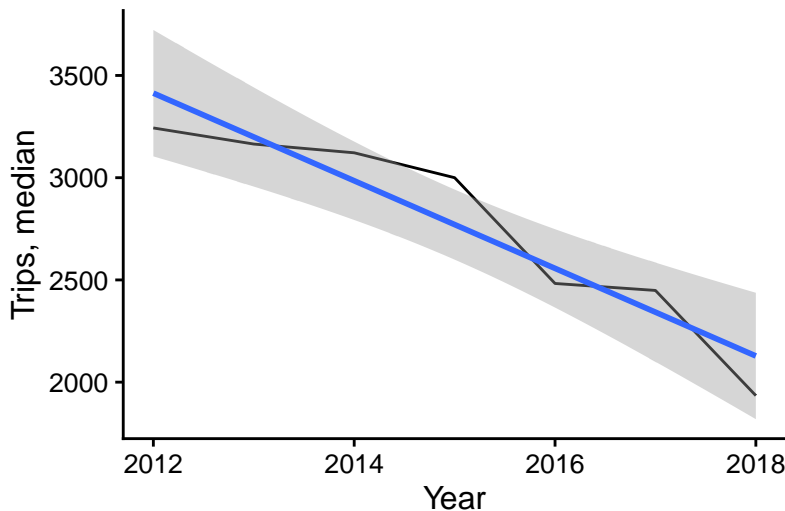
Dynamik der Fördersumme, Mittagstisch: Median pro Begünstigter



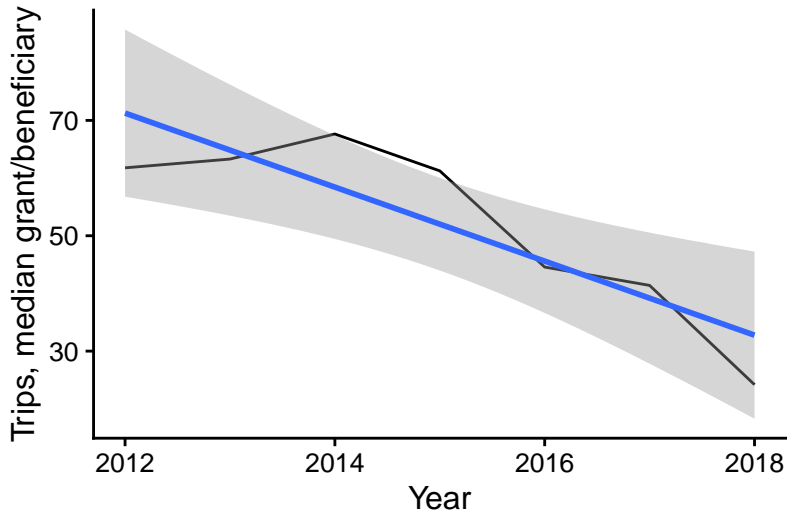
Dynamik der Fördersumme, Entdeckerfonds: Summe



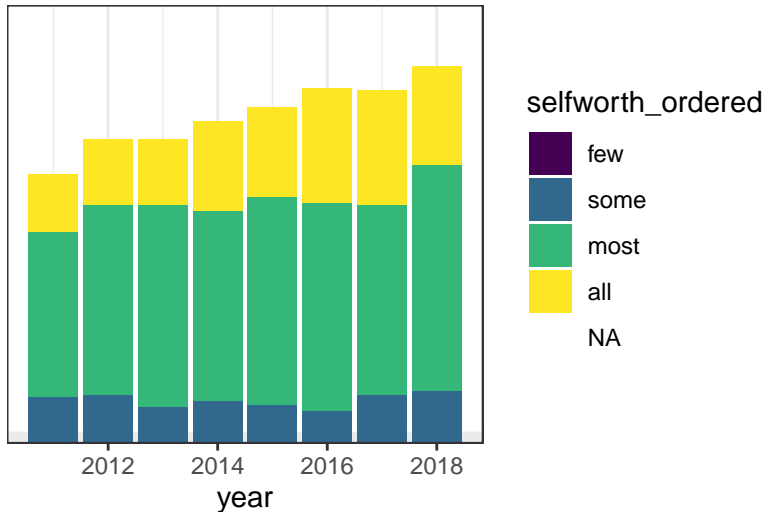
Dynamik der Fördersumme, Entdeckerfonds: Median



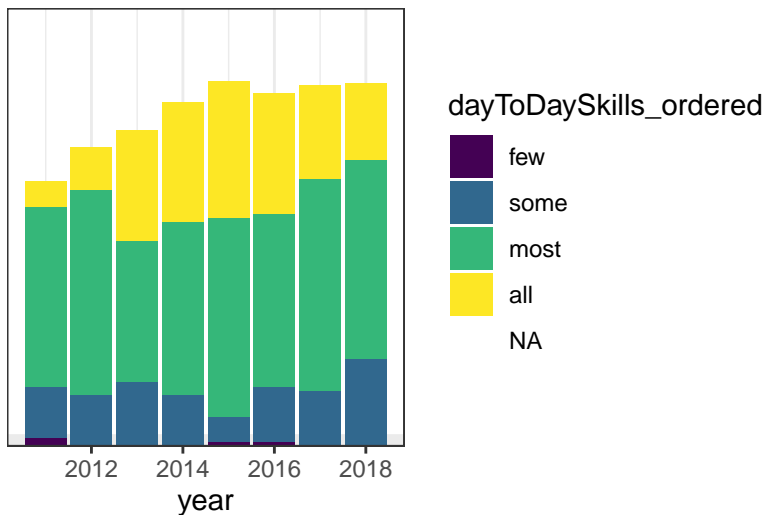
Dynamik der Fördersumme, Entdeckerfonds: Median pro Begünstigter



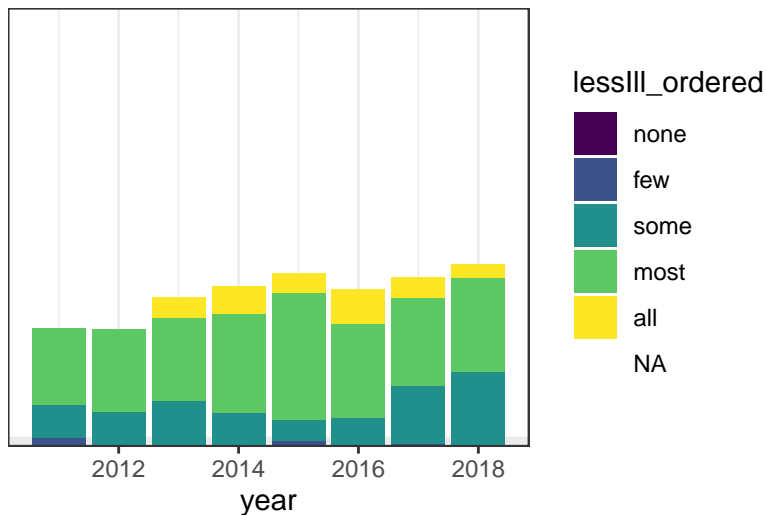
Variable "Selbstwertgefühl": Dynamik



Variable "Alltagskompetenzen": Dynamik



Variable "seltener krank": Dynamik

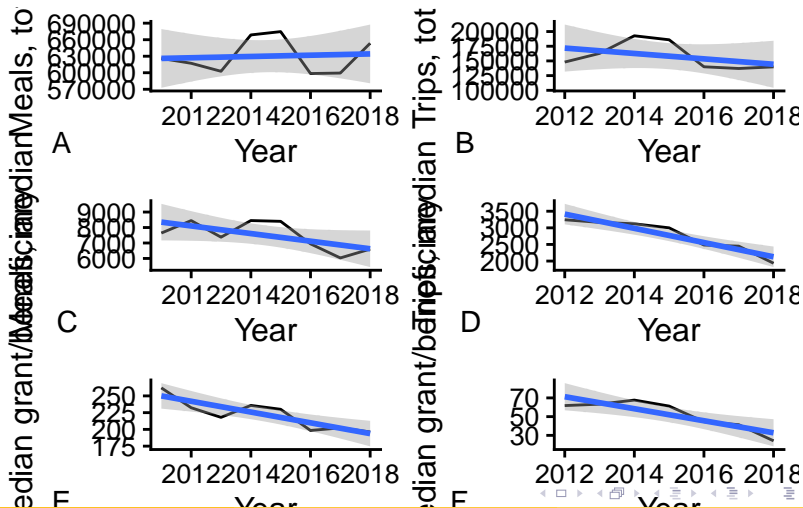


Variable "Wertschätzung gesunder Ernährung": Dynamik

```
## Warning in gzfile(file, "rb"): kann komprimierte Datei  
'./ANALYSIS/GRAPHS/PAPER/appreciate.Time.Rds.Rds' nicht öffnen. Grund  
evtl. 'No such file or directory'  
## Error in gzfile(file, "rb"): kann Verbindung nicht öffnen  
## Error in print(appreciatetimeplot, label = "lessilltimeplot"):  
Objekt 'appreciatetimeplot' nicht gefunden
```

Dynamics

Figure: Yearly dynamics of total grants in Meals and Trips program



Empirischer Ansatz

$$y_{it} = \beta_0 + \beta_1 x_{it} + \epsilon_{it} \quad (1)$$

Zusammenhang Mahlzeiten und Zuschüsse

Table: Zusammenhang zwischen Anzahl der Mahlzeiten und realer Fördersumme

	(1)	(2)	(3)	(4)	(5)
(Intercept)	-12089.14* (5192.86)	-1814.16 (1765.93)	3535.39*** (498.99)	3107.70*** (508.94)	-12250.60** (4524.09)
realSubsidy	2.61*** (0.57)	0.50** (0.18)	0.29*** (0.05)	0.25*** (0.05)	2.72*** (0.51)
eatersPerMealNo		172.83*** (14.92)		19.00* (8.45)	
R ²	0.43	0.73	0.13	0.21	0.45
Adj. R ²	0.43	0.73	0.12	0.20	0.45
Num. obs.	329	329	250	250	440
RMSE	39992.79	27390.90	3629.72	3463.66	39601.41

Abhängige Variable: Anzahl der Mahlzeiten

realSubsidy: Fördersumme für Mittagstisch (EUR von 2015)

eatersPerMeal: Anzahl der durch Mittagstisch Begünstigten, einfaches lineares Modell, geschätzt mit Ansatz der kleinsten Quadrate

Modell (2): ursprünglicher Datensatz, lineares Modell mit Kontrollen, geschätzt mit Ansatz der kleinsten Quadrate

Modell (3): Datensatz ohne Ausreißer, einfaches lineares Modell, geschätzt mit Ansatz der kleinsten Quadrate

Modell (4): data set without outliers, linear model with controls, estimated with OLS

Modell (5): imputed data set, simple linear model, estimated with OLS

All regressions are estimated with robust standard errors *** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$.

Zusammenhang Ausflüge und Zuschüsse

Table: Association between number of trips and real subsidy

	(1)	(2)	(3)	(4)	(5)
(Intercept)	3.7049*** (0.3313)	3.4394*** (0.3359)	2.6236*** (0.2300)	2.3660*** (0.2609)	3.6237*** (0.3253)
realTripsSubsidy	0.0002* (0.0001)	0.0001 (0.0001)	0.0003*** (0.0001)	0.0003*** (0.0001)	0.0002* (0.0001)
tripsKidsNo		0.0059 (0.0032)		0.0043 (0.0027)	
R ²	0.0474	0.0729	0.0880	0.1241	0.0504
Adj. R ²	0.0444	0.0671	0.0844	0.1172	0.0476
Num. obs.	322	319	257	256	334
RMSE	2.9565	2.8967	1.6981	1.6579	2.9310

Dependent variable: number of trips

realTripsSubsidy: subsidy for Trips program in 2015 EUR

tripsKidsNo: number of beneficiaries of Trips program

Model (1): original data set, simple linear model, estimated with OLS

Model (2): original data set, linear model with controls, estimated with OLS

Model (3): data set without outliers, simple linear model, estimated with OLS

Model (4): data set without outliers, linear model with controls, estimated with OLS

Selbstwertgefühl

Table: Association between selfworth and subsidy per beneficiary

	(1)	(2)	(3)	(4)	(5)
(Intercept)	0.08 (0.09)	0.12 (0.12)	0.09 (0.09)	0.12 (0.11)	0.23* (0.11)
realSubsidyPerBeneficiary	-0.00 (0.00)		-0.00 (0.00)		-0.00 (0.00)
realTripsSubsidyPerBeneficiary		-0.00 (0.00)		-0.00 (0.00)	
ML1					0.24*** (0.06)
ML2					0.37*** (0.05)
ML3					0.15*** (0.04)
R ²	0.00	0.01	0.00	0.01	0.30
Adj. R ²	0.00	0.01	0.00	0.01	0.28
Num. obs.	428	184	430	187	161
RMSE	1.00	1.00	1.00	1.00	0.79

Alltagskompetenzen

Table: Association between everyday expertise and subsidy per beneficiary

	(1)	(2)	(3)	(4)	(5)	(6)
(Intercept)	0.15 (0.09)	0.13 (0.10)	0.14 (0.09)	0.11 (0.10)	0.28* (0.11)	0.08 (0.09)
realSubsidyPerBeneficiary	-0.00 (0.00)		-0.00 (0.00)		-0.00 (0.00)	
realTripsSubsidyPerBeneficiary		-0.00 (0.00)		-0.00 (0.00)		-0.00 (0.00)
ML1					0.31*** (0.06)	0.03 (0.07)
ML2					0.40*** (0.06)	0.16* (0.07)
ML3					0.16** (0.05)	0.19** (0.06)
ML4						0.49*** (0.06)
R ²	0.01	0.01	0.01	0.01	0.37	0.37
Adj. R ²	0.01	0.01	0.01	0.01	0.36	0.35

Seltener krank

Table: Association between healthy meals criterion and beneficiaries being less ill

	(1)	(2)	(3)	(4)	(5)
(Intercept)	0.02 (0.08)	0.46** (0.16)	0.09 (0.07)	0.39*** (0.12)	0.05 (0.07)
DGECriteriaNoScaled	0.33*** (0.08)	0.35* (0.16)	0.25*** (0.07)	0.24 (0.14)	0.18* (0.07)
ML1					0.12* (0.06)
ML2					0.27*** (0.06)
R ²	0.12	0.29	0.07	0.16	0.19
Adj. R ²	0.11	0.29	0.07	0.16	0.17
Num. obs.	121	120	177	177	161
RMSE	0.91	7.83	0.94	7.95	0.87

Dependent variable: share of beneficiaries who are less frequently ill

DGECriteriaNo: index of healthy diet criteria fulfilled in organization's menu

Model (1): original data set, simple linear model, estimated with OLS

Model (2): original data set, simple linear model, estimated with WLS

Model (3): imputed data set, simple linear model, estimated with OLS

Model (4): imputed data set, simple linear model, estimated with WLS

Ernährungswissen

Table: Association between healthy meals criterion and beneficiaries dietary knowledge

	(1)	(2)	(3)	(4)	(5)
(Intercept)	0.02 (0.07)	0.08 (0.19)	0.02 (0.06)	0.21 (0.18)	0.02 (0.07)
DGECriteriaNoScaled	0.11 (0.06)	-0.02 (0.12)	0.12* (0.05)	0.10 (0.14)	-0.00 (0.06)
ML1					0.26*** (0.06)
ML2					0.24*** (0.06)
ML3					0.37*** (0.06)
R ²	0.01	0.00	0.02	0.01	0.31
Adj. R ²	0.01	-0.00	0.01	0.01	0.29
Num. obs.	214	212	275	275	161
RMSE	0.98	8.49	0.96	9.45	0.83

Dependent variable: share of beneficiaries with expanded dietary knowledge

DGECriteriaNo: index of healthy diet criteria fulfilled in organization's menu

Wertschätzung für gesundes Essen

Table: Association between healthy meals criterion and beneficiaries appreciation of a healthy diet

	(1)	(2)	(3)	(4)	(5)
(Intercept)	-0.03 (0.07)	0.26 (0.18)	0.02 (0.06)	0.37* (0.17)	0.05 (0.07)
DGECriteriaNoScaled	0.27*** (0.07)	-0.02 (0.15)	0.25*** (0.06)	0.01 (0.13)	0.03 (0.06)
ML1					0.03 (0.07)
ML2					0.47*** (0.05)
ML3					0.24*** (0.05)
R ²	0.06	0.00	0.06	0.00	0.37
Adj. R ²	0.06	-0.00	0.06	-0.00	0.35
Num. obs.	213	211	274	274	161
RMSE	1.02	8.61	1.01	9.00	0.82

Dependent variable: share of beneficiaries with increased appreciation for a healthy diet

DGECriteriaNo: index of healthy diet criteria fulfilled in organization's menu

Partition Mittagstisch

	Variable, Meals	Mapping, Meals	Information, Meals
1	participateMore	participateMore	1.00
2	tasksLunch	tasksLunch	1.00
3	ownIdeas	ownIdeas	1.00
4	stayLonger	stayLonger	1.00
5	dietaryKnowledge	dietaryKnowledge	1.00
6	appreciateHealthy	appreciateHealthy	1.00
7	foodCulture	foodCulture	1.00
8	lessIll	lessIll	1.00
9	betterTeamwork	betterTeamwork	1.00
10	moreRegularSchoolVisits	moreRegularSchoolVisits	1.00
11	addressProblems	addressProblems	1.00
12	reduced_var_1	moreConcentrated	0.66
13	reduced_var_1	moreBalanced	0.66
14	reduced_var_2	monthlyCooks	0.42

Partition Entdeckerfonds

	Variable, Trips	Mapping, Trips	Information, Tri
1	tripsSuggestions	tripsSuggestions	1.00
2	tripsDecisions	tripsDecisions	1.00
3	tripsOrganization	tripsOrganization	1.00
4	tripsCostCalculation	tripsCostCalculation	1.00
5	tripsBudget	tripsBudget	1.00
6	tripsMoney	tripsMoney	1.00
7	tripsReview	tripsReview	1.00
8	tripsPublicTransport	tripsPublicTransport	1.00
9	tripsMobility	tripsMobility	1.00
10	tripsAdditionalActivities	tripsAdditionalActivities	1.00
11	tripsSelfworth	tripsSelfworth	1.00
12	tripsFrustrationTolerance	tripsFrustrationTolerance	1.00
13	reduced_var_1	tripsSuccess	0.68
14	reduced_var_1	tripsSelfEfficacy	0.68

Idee

Definition der Treatmentgruppe

Zielvariable

Graphische Darstellung: Alltagskompetenzen

Graphische Darstellung: Selbstwertgefühl

DID - Schätzung

Alltagskompetenzen

Selbstwertgefühl

References I