Juvenile crime in times of crisis:

a causal case-control analysis comparing the Veneto and Sicily regions

Elena Dalla Chiara, Martina Menon, and Federico Perali Department of Economics University of Verona and CHILD

Partners: Istituto Don Calabria, Ministry of Justice – Juvenile Department

I dati territoriali a supporto delle decisioni pubbliche. Micro, macro e meta dati a sistema Università di Verona, October 22 2014



George Orwell's Foreword

(Down and Out in Paris and London, 1933)

- "Poverty is what I'm writing about.
- For, when you are approaching poverty, you make one discovery, which outweighs some of the others. You discover boredom and mean complications and the beginnings of hunger, but you also discover the great redeeming feature of poverty: the fact that it annihilates the future.
- Being a beggar, he said, was not his fault, and he refused either to have any compunction about it or to let it trouble him. He was the enemy of society, and quite ready to take to crime if he saw a good opportunity."



Children and Youth in Crisis

(The World Bank, 2013)

- The successful development of children and young people requires that we protect and nurture a set of interrelated physiological, cognitive, and socio-emotional systems.
 - What happens to these children in early life can have longterm consequences and can even carry over to the next generation.
- Depending on the timing, transmission mechanisms, and context, the consequences for children's physical, cognitive, and socio-emotional development may be costly and irreversible.
- Multidisciplinary approach required: economics, sociology, anthropology, and psychology.

Investing in the human capital accumulation of our young people (Jim Heckman, 2009)

- A "good" society should learn
 - how to "produce" young people not only good at school but also "brave captains"... and
 - how to achieve a more equitable distribution of BOTH material AND relational well-being.
- In order to
 - minimize private and social costs (such as crime) associated with young people that, when adults, may show limitations in productive capacities because not capable to establish good relationships or evolve addictive behaviors.





Public Health Approach in 4 Steps

- To define the problem through the **systematic collection of information** about the magnitude, scope, characteristics and consequences of violence.
- To establish **why** violence occurs **using research to determine the causes** and correlates of violence, the factors that increase or decrease the risk for violence, and the factors that could be modified through interventions.
- To **find out what works** to prevent violence by designing, implementing and evaluating interventions.
- To implement effective and promising interventions in a wide range of settings. The effects of these interventions on risk factors and the target outcome should be monitored, and their impact and cost-effectiveness should be evaluated.



The social alarm rings

- The sustainability of the juvenile justice system and the realization of its social mandate are in jeopardy.
- The problem is especially exacerbated in aging societies where the allocation of public resources is often biased towards the old generations at the cost of the young ones.



Main motivation of the study

- In the present socioeconomic context in which not only physical but also human and social capital is highly devalued, it is urgent to single out the relative *causal* importance of
 - individual characteristics, traits, and responsibilities,
 - family background,
 - income, education and unemployment, especially youth
 - community circumstances
- in determining youth offensive behavior in order to design youth programs effective in reducing the role of circumstances and in guaranteeing equal opportunities.





- Biological factor
 - gender
- Social factors
 - Quality of parenting
 - Female-headed households and city crime
 - Outside the family: degree of "social control" exerted by a community
- Criminal justice systems: prevention and cure
 - Punishment vs restorative justice
 - recidivism
- Economic factors: affecting the attractiveness of alternatives to crime /income+ poverty effects











What is a cohort study

- A cohort study or panel study is a form of longitudinal study used in <u>medicine</u>, <u>social science</u>, criminology and other sciences. It is an analysis of <u>risk factors</u>.
- It follows a group of people who initially do not have a medical or social disease and uses statistical analysis to determine the absolute risk of subject contraction.
- An interesting example is the Elfe (France) case that is the first longitudinal study in France that aims to follow 20,000 French children from birth to adulthood by analysing multiple aspects of the life of the child in terms of health, environmental health and social sciences.



Diapositiva 22

- 3 I bambini sono selezionati da un campione di 300 maternità della Francia metropolitana. Circa il 50% sono parte del Pannello Demografico dell'INSEE. Alle famiglie vengono somministrati una combinatione di interviste personali, telefoniche e via web. I bambini sono sottoposti a esami medici e tests a partire dal giorno di nascita. Martina Menon; 19/09/2012
- **FP7** Nature and nurture of crime, intergeneration transmission of crime Federico Perali; 06/11/2012

15 main topics + crime

- Demography and family
- Socialization, education
- Physical growth and puberty
- Respiratory desease
- Cancer
- Perinatal period
- Infectious desease
- Physical exposures contaminants

- Economics, precariousness
- Psychomotor development
- Food, nutrition, metabolism
 Asthma and allergies
- Accidents and trauma
- Health care and dental health
- Chemical exposures
- Exposures to environmental

Comparison of the characteristics of cohort and case control observational studies

- Cohort
 - Complete source population
 - Can calculate incidence rates or risks and their differences and ratios
 - Very expensive
 - Convenient for studying many diseases
 - Not always observe the outcome of interest
 - Can be pro or retrospective

- Case-control
 - Sampling from source population
 - Can calculate only the ratio of incidence rates or risks (unless the control sampling fraction is known)
 - Less expensive (esp. If control comes from existing data but less precise e.g. no peer effects or noncogn ab)
 - Convenient for studying many exposures
 - Can be pro or *retrospective*

The case-control study about juvenile crime in Veneto and Sicily

Studies about socially excluded parts of society are rare in Italy

• Cases

 Representative sample: 257 obs. Sicily, 159 obs.
 Veneto of young offenders. We administered a questionnaire to the subject and one to their family gathering information about

- Socio-economic and psychological characteristics
- Relational aspects and social capital
- Consumption, income, intrahousehold distribution of resources and time use

we analy	ze the e	x post re	eprese	ntativen	ess of	the sam	ple ob	served
Expected sa	mple siz	ze weigł Trive	nting b eneto:	y popul 142; Sic	ation p ily 23:	proportio 5	ons is	
Table 3. Youth taken	under care: sa	mple observati	ons and est	imated size us	ing Bayesia	n approach.	ed size	
Table 3. Youth taken	under care: sa	mple observati Observed s	ons and est	imated size us	ing Bayesia	n approach. Estimati	ed size	
Table 3. Youth taken	under care: sa	mple observati Observed s	ons and est ample size S	imated size us	ing Bayesia	n approach. Estimati eneto %	ed size S	icily %
Table 3. Youth taken	under care: sa Triv 36	mple observati Observed so reneto % 22.64	ons and est ample size S N 58	imated size us icily % 22.66	ing Bayesia Triv N 50	n approach. Estimati eneto % 26.04	ed size S N 39	icily %
Table 3. Youth taken Type of crime Violent crime Property crime	under care: sa Triv N 36 65	mple observati Observed si reneto % 22.64 40.88	ons and est ample size S N 58 139	imated size us icily % 22.66 54.30	ing Bayesia Triv N 50 98	E stimate E stimate eneto % 26.04 51.04	ed size S N 39 113	icily % 21.31 61.75
Table 3. Youth taken Type of crime Violent crime Property crime Drugs	under care: sa Triv N 36 65 50	mple observati Observed s reneto % 22.64 40.88 31.45	ons and est ample size S N 58 139 36	imated size us	ing Bayesia Triv N 98 39	n approach. E stimati eneto % 26.04 51.04 20.31	ed size S N 39 113 23	icily % 21.31 61.75 12.57
Table 3. Youth taken Type of crime Violent crime Property crime Drugs Others	under care: sa 	mple observati Observed s reneto % 22.64 40.88 31.45 5.03	ample size S N 58 139 36 23	imated size us	ing Bayesia Triv N 50 98 39 5	n approach. E stimate eneto % 26.04 51.04 20.31 2.60	ed size S N 39 113 23 8	icily 21.31 61.75 12.57 4.37



31/10/2014

Risultati della Ricerca

	1	repres	entativ	venes	s of the	e samp	ole obse	erved	
					Sampling design				
Geographical area	Type of crime	Field* (1° phase)	Field* Final sample (1° Size* phase)		Simple random sampling without replacement		Mixed Bayesian/Likelihoo approach		
		%	Freq.	%	Freq.	%	Freq.	%	
		(a)	(b)	(c)	(e)	(f)	(g)	(h)	
	Against persons	0.21	36	0.23	40	0.24	51	0.24	
	Against property	0.39	65	0.41	59	0.35	74	0.35	
Triveneto	Drugs	0.35	50	0.31	56	0.34	71	0.34	
	Others	0.05	8	0.05	12	0.07	15	0.07	
	Total	1.00	159	1.00	167	1.00	211	1.00	
	Against persons	0.22	58	0.23	45	0.28	52	0.28	
	Against property	0.56	139	0.54	65	0.40	77	0.41	
Sicily	Drugs	0.16	36	0.14	36	0.22	41	0.22	
•	Others	0.06	23	0.09	15	0.09	18	0.10	
	Total	1.00	256	1.00	161	1 00	188	1.00	





potential c	outcomes a	are indepe	ndent of t	reatment	assignme	nt
						-
Companyate	Treat	ment				
0-5 years old	(EUS	SILC)	Untrea	atment	Total	
0-5 years olu			(Consu	mption)		
	Ν	Col %	Ν	Col %	Ν	Col %
No	16951	88.53	20477	89.75	37428	89.19
Yes	2196	11.47	2339	10.25	4535	10.81
Total	19147	100	22816	100	41963	100
	Trea	tment	Untre	atment		
Components	(EU	SLIC)	(CISF)		Total	
0-5 years old	Ν	Col %	Ν	Col %	Ν	Col %
No	10783	84.75	2502	88.85	13285	85.49
Yes	1940	15.25	314	11.15	2254	14.51
Total	12723	100.00	2816	100.00	15539	100.00



	Balance – II (EUSILC-Consumption)											
	\ /											
						Blocks						
	2	3	4	5	6	7	8	9	10	11	12	
Balance of propensity score across treatment and comparison groups	-0.077	1.368	1.332	-0.076	-1.218	-2.238	-0.654	-0.425	-1.980	-0.593	-1.38	
alance of covariates across treatment and comparison groups within blocks of the propensity score												
Geoaraphical area												
Northeast	-1.287	-1.200	0.747	-1.346	0.336	0.681	2.501	0.279	1.127	-0.586	-0.775	
Central Italy			-0.984	0.576	-0.330	-0.104	-2.117	-0.254	-0.719	-0.840	-0.77	
Southern Italy	-0.987	2.089	-2.197	0.194	-1.116	-0.561	-2.189		-0.873			
Islands	1.471	-1.586	-0.961	-0.169	-0.731	-0.589	0.033		-0.873	-0.622		
Components 0-5 years old	0.591	-0.539	-0.717	-0.429	0.036	0.884	0.483	-1.016	1.029	1.066	-0.77	
Components 6-14 years old	0.842	0.284	0.746	0.081	-0.563	0.813	-1.892	-1.766	0.331	-1.568	-0.775	
Self-employed	1.210	0.907	0.343	1.842	-1.040	-0.768	-0.226	-2.346	-0.877	-1.031		
Single-parent	-0.279	2.350	0.287	0.627	-1.750	-0.062	-0.050	0.357	-0.100	-0.048		
Owner occupancy	1.121	-1.716	2.048	0.118	-1.077	2.482	-1.434	-0.905	-1.465	-2.269		
Avg family education -												
Middle	-0.253	0.823	1.416	0.226	-0.529	1.156	0.550	-0.329	0.480	-1.090		
Middle-High	-2.494	1.061	-0.595	1.186	0.733	-0.961	1.547	-0.014	-0.117	-0.992	-0.775	
High	0.685	1.555	-1.714	1.661	-1.370	-0.612	0.042	0.601	-1.080	0.079	-1.549	
University	-0.007	-2.082	-0.495	0.456	0.388	0.774	-0.636	0.276	1.533	0.798		
Family income	2.326	1.124	-0.092	2.256	-0.981	0.050	-0.217	-1 203	-1.518	-0 508	-0.793	



Incidence of adult crime in Veneto and Sicily

Denounced crime and crime ratios / 100000 residents

Year 2005 Source: Istat	Crime against persons	Crime against property	Total	Crime ratio for crimes against persons	Crime ratio for crimes against property	2005 Population
Veneto	8.00	81.64	156249	263.87	2692.14	4738313
Sicily	13.38	73.46	206556	551.04	3024.15	5017212
Italy	11.57	76.54	2579390	508.06	3360.16	58751711

Denounced j	Incidence of juvenile crime in Veneto and Sicily Denounced juvenile crimes and crime ratios / 100000 residents aging 14-17										
Year 2007 Source: Istat	Crime against persons	Crime against property	Total	Crime ratio for crimes against persons	Crime ratio for crimes against property	2007 Population Age 14-17					
Veneto	20.91	66.86	2224	133.55	427.09	348173					
Sicily	32.16	35.46	5460	373.96	412.30	469564					
Italy	32.00	48.66	49004	343.63	522.46	4563966					























Juvenile	Offe	nce ar	nd Dr	ug A	ddictio	on
Δ	re vou a	actually a	ssumine	drugs?)	
linform	ation in	the second	++ i	- +ha ca	ntrole)	
(iniorm	ation in	the case t	int not i	n the co	ntrois)	
	Veneto			Sicily		
		Not, but			Not, but	
Offense type		had drugs			had drugs	
	Yes	in the past	Never	Yes	in the past	Never
against person	5	15	26	6	23	35
	10,87	32,61	56,52	9,38	35,94	54,69
	15,63	15,00	44,83	27,27	15,33	31,25
against patrimony	15	29	27	12	79	54
	21,13	40,85	38,03	8,28	54,48	37,24
	46,88	29,00	46,55	54,55	52,67	48,21
Violation narcotics law	6	50	3	2	32	11
	10,17	84,75	5,08	4,44	71,11	24,44
	18,75	50,00	5,17	9,09	21,33	9,82
Others	6	6	2	2	16	12
	42,86	42,86	14,29	6,67	53,33	40,00
	18,75	6,00	3,45	9,09	10,67	10,71
Total	32	100	58	22	150	112
	16,84	52,63	30,53	7,75	52,82	39,44
31/10/2014	32	100	100	22	150	100













Multidimensional poverty in Veneto and Sicily's sample of young offenders

- The multidimensional poverty index (MPI) reflects deprivations in basic services and human functionings associated with Human Development. Not just income.
- The MPI has traditionally three equally weighted dimensions: (e.g. health, education, and standard of living).

-A household is identified as MP if it is deprived in some combination of indicators whose weighted sum exceeds 30 percent of deprivations.

-The MPI is the product of two measures:

- Headcount, % of people who are poor, and
- Average Intensity of Deprivation reflecting the proportion of dimensions in which households are deprived. So MPI is an adjusted measure of the incidence of poverty H.

Dimensions of poverty									
Dimension	Description	Poverty line							
Income	Equivalent household income	Half the median value of equivalent income (EUSILC)							
No of parents	Number of parents in the household	A family with single-parent							
Relation with children	Satisfaction about the relationship with children (range 0-10)	Less than six							
Crime area	The family lives or not in an area that presents problems of crime, violence or vandalism	Family lives in a crime area							
Education	Education of parents and children dropout	Low education of parents and at least one child has dropout							
Parents work	Both parents (or single-parent) working or not full time	Both parents (or single-parent) working full time							
31/10/2014									

Dimonsion	Ven	eto	Sic	Sicily		
DIMENSION	Control	Case	Control	Case	Control	
Income	5.14	32.61	26.43	70.79	12.00	
N parents	13.94	38.41	13.22	30.34	15.49	
Relation with children	2.71	18.84	2.24	7.87	2.72	
Crime area	7.67	14.49	11.47	25.28	10.88	
Education	4.49	33.33	7.48	51.12	5.36	
Parents work	33.68	36.23	23.44	14.04	31.57	

Proportion of poor in each dimension

Multidimensional poverty headcount ratio (H0) for different values of k

0	Ver	neto	Sic	ily	Italy
Cutoff	control	case	control	case	control
1	49.77	87.68	63.34	92.13	56.54
2	15.15	54.35	18.45	66.29	17.49
3	2.25	23.91	1.75	31.46	3.43
4	0.47	7.25	0.50	9.55	0.46
5	0.00	0.72	0.25	0.00	0.08
6	0.00	0.00	0.00	0.00	0.03





The case-control study Odds Ratio

The **odds ratio** (OR) is one of the indices used in case-control retrospective studies to define the cause-effect ratio between two factors, e.g. a risk factor and a disease or an offense in our case.

•The OR compares the occurrence frequency of an event (e.g. a disease or crime) respectively in the exposed subjects (who committed a crime) and in those non exposed to the risk factor of interest.

•The OR is defined as the odds of the social problem (disease) between exposed subjects divided by the odds of the problem among non exposed subjects.

- If OR=1, the odds in the control is equal to the odds of the exposed cases, that is the risk factor does not affect the occurrence of the problem;
- If OR>1, then the risk factor can be a cause of the problem;
- If OR<1, then the risk factor is in effect a defense against the problem.



	Tri	veneto	S	icily	
	% I	Exposed	% Exposed		
Risk factors	Case	Control	Case	Control	
Income	0.76	0.38	0.94	0.72	
Single or no parent	0.38	0.14	0.30	0.13	
Education	0.65	0.59	0.85	0.62	
At least one child drop-out	0.43	0.06	0.55	0.08	
Working father	0.81	0.79	0.63	0.78	
Working mother	0.67	0.60	0.26	0.30	

Young offense and income, family structure, human capital and work condition

	T	rivene	to	Sicily		
Causes	Odds Ratio	Attr. Frac. Ex.	2-sided Fisher's exact P	Odds Ratio	Attr. Frac. Ex.	2-sided Fisher's exact P
Income	5.28	0.81	0,000	6.59	0.85	0,000
Single or no parent	3.85	0.74	0,000	2.86	0.65	0,000
Education	1.28	0.22	0.2297	3.65	0.73	0.0000
At least one child drop-out	11.88	0.92	0.0000	13.22	0.92	0.0000
Working father	1.13	0.11	0.7900	0.49	0.51	0.0015
Working mother	1.36	0.26	0.1465	0.80	0.20	0.3122
Working mother 31/10/2014	1.36	0.26	0.1465	0.80	0.20	0.3

Young	offe	nse a	and	inco	ome	2 2
	Т	rivene	eto	S	Sicily	
	Odds Ratio	Attr. Frac. Ex.	2-sided Fisher's exact P	Odds Ratio	Attr. Frac. Ex.	2-sided Fisher's exact P
Violent crime - Income	11,2	0,91	0,0000	3,43	0,71	0,0135
Property crime - Income	5,49	0,82	0,0000	12,42	0,92	0,0000
Drugs - Income	3,96	0,75	0,0000	3,53	0,72	0,1192

Young offense, social capital and relational well-being

	Triveneto			Sicily		
	Odds Ratio	Attr. Frac. Ex.	2-sided Fisher's exact P	Odds Ratio	Attr. Frac. Ex.	2-sided Fisher's exact P
Trust in family members for daily necessities (bonding)	14,58	0,93	0,0000	2,04	0,51	0,0264
Trust in friends of family members (bridging)	1,78	0,44	0,0015	3,64	0,73	0,0000
Satisfaction about the relationship with children	8,33	0,88	0,0000	3,72	0,73	0,0022
Satisfaction about the time spent together 31/10/2014	6,41	0,84	0,0000	3,07	0,67	0,0002

Young offense, social capital and relational well-being

	Triveneto		Sicily			
	Odds Ratio	Attr. frac. ex.	2-sided Fisher's exact P	Odds Ratio	Attr. frac. ex.	2-sided Fisher's exact P
Crime – trust in family members for daily necessities (bonding)	9.77	0.90	0.0000	9.23	0.89	0.0000
Crime – trust in friends of family members (bridging)	2.14	0.53	0.0001	2.66	0.62	0.0000
Crime – satisfaction about the relationship with children	8.96	0.89	0.0000	2.64	0.62	0.000
Crime – satisfaction about the time spent together	2.44	0.59	0.0000	1.29	0.23	0.1225



\sim	ariable Definition
Family size	Number of family members
Age (hh head)	Household head's age in years
Citizenship (hh head)	= 1 if hh head has Italian citizenship
Only child	= 1 if family with one child
Single parent	= 1 if single parent family
Father highest degree	
Elementary	=1 if elementary school certificate
Middle school	= 1 if middle school certificate
High school	= 1 if high school certificate
University	= 1 if university degree
Missing (no father)	= 1 if no education information because there is no father
Mother highest degree	
Elementary	=1 if elementary school certificate
Middle school	= 1 if middle school certificate
High school	= 1 if high school certificate
University	= 1 if university degree
Missing (no mother)	= 1 if no education information because there is no mother
Dropout	= 1 if at least one child drops out from school
Father working status	= 1 if father works
Mother working status	= 1 if mother works
Neighbourhood with crime	= 1 if neighbourhood has criminal problems
Homeownership	= 1 if family owns the house either outright or through a mortgage
Family income	
Lower class	= 1 if first tertile
Middle class	= 1 if second tertile
Upper class	= 1 if third tertile
Trust family	Trust in family members - Likert scale 0-10
Trust friends	Trust in friends - Likert scale 0-10
Generalized trust	People are trustworthy - Likert scale 0-10
Satisfaction with children	Parents' satisfaction with children relationship - Likert scale 0-10

Inveneto	C	1	0	
No. of observations (%)	1.069	(99.57)	Lase	(11.42)
No. of observations (%)	Mean	S.D.	Mean	S.D.
Family size	3.536	0.833	3.877	1.535
Age (hh head)	50.387	9.137	48.572	8.205
Citizenship (hh head)	0.960	0.197	0.746	0.437
Only child	0.453	0.498	0.333	0.473
Single parent	0.139	0.347	0.384	0.488
Father education				
Elementary	0.107	0.309	0.058	0.235
Middle school	0.282	0.450	0.290	0.455
High school	0.405	0.491	0.283	0.452
University	0.207	0.405	0.370	0.484
Missing (no father)	0.117	0.321	0.326	0.470
Mother education				
Elementary	0.107	0.309	0.109	0.312
Middle school	0.303	0.460	0.341	0.476
High school	0.466	0.499	0.370	0.484
University	0.124	0.330	0.181	0.387
Missing (no mother)	0.022	0.148	0.087	0.283
Dropout	0.061	0.239	0.435	0.498
Father working status	0.695	0.461	0.543	0.500
Mother working status	0.590	0.492	0.616	0.488
Working mother and single	0.090	0.286	0.239	0.428
Neighbourhood with crime	0.077	0.266	0.145	0.353
Homeownership	0.792	0.406	0.536	0.501
Family income				
Lower class	0.192	0.394	0.630	0.484
Middle class	0.385	0.487	0.254	0.437
Upper class	0.423	0.494	0.116	0.321
Trust family	9.167	1.120	7.804	2.092
Trust friends	7.223	2.094	5.761	2.701
Generalized trust	5.977	1.540	5.290	2.438
Satisfaction with children	0.022	1.058	7 /28	2 267

Sicily				
	Contro	ol	Case	e
No. of observations (%)	401	(69.26)	178	(30.74)
	Mean	S.D.	Mean	S.D.
Family size	3.731	0.907	4.084	1.319
Age (hh head)	51.122	9.925	47.084	7.994
Citizenship (hh head)	0.990	0.100	0.961	0.195
Only child	0.344	0.476	0.191	0.394
Single parent	0.132	0.339	0.303	0.461
Father education				
Elementary	0.170	0.376	0.270	0.445
Middle school	0.367	0.482	0.348	0.478
High school	0.267	0.443	0.073	0.261
University	0.197	0.398	0.309	0.463
Missing (no father)	0.110	0.313	0.292	0.456
Mother education				
Elementary	0.190	0.392	0.354	0.480
Middle school	0.359	0.480	0.427	0.496
High school	0.347	0.476	0.146	0.354
University	0.105	0.307	0.073	0.261
Missing (no mother)	0.022	0.148	0.045	0.208
Dropout	0.085	0.279	0.551	0.499
Father working status	0.691	0.463	0.444	0.498
Mother working status	0.297	0.457	0.247	0.433
Working mother and single	0.057	0.233	0.112	0.317
Neighbourhood with crime	0.115	0.319	0.253	0.436
Homeownership	0.713	0.453	0.427	0.496
Family income				
Lower class	0.504	0.501	0.916	0.279
Middle class	0.334	0.472	0.056	0.231
Upper class	0.162	0.369	0.028	0.166
Trust family	9.307	1.161	8.472	2.161
Trust friends	.6.970	1.883	4.702	3.384
Generalized trust	Risultati₃de	lla Ricerça ₈₀	4.685	2.977
Satisfaction with children	0.200	1.024	8 7 1 2	1 795

Causal effects (Odds Ratio - Triveneto): family circumstances and education

	Model 1	Model 2	Model 3
Family size	1.977***	2.290***	2.562***
	(0.340)	(0.433)	(0.529)
Age (hh head)	1.028**	1.060***	1.064***
	(0.0146)	(0.0171)	(0.0202)
Citizenship (hh head)	0.167***	0.254***	0.336**
	(0.0595)	(0.0931)	(0.147)
Only child	1.469	1.557	1.459
	(0.499)	(0.593)	(0.608)
Single parent	10.13***	6.074***	7.388***
	(4.617)	(3.208)	(4.305)
Father education - ref. group "Elementary"			
Middle school	1.672	1.370	1.656
	(0.798)	(0.641)	(1.033)
High school	1.248	1.573	2.654
	(0.603)	(0.725)	(1.589)
Iniversity	1.016	1.170	1.913
	(0.560)	(0.661)	(1.359)
Mother education - ref. group "Elementary"			
Middle school	1.555	1.493	1.258
	(0.661)	(0.652)	(0.705)
High school	1.118	1.099	1.190
	(0.481)	(0.475)	(0.643)
University	1.487	2.066	1.651
	(0.735)	(1.117)	(1.018)
Dropout	8 587***	8 301***	9 213***
Diopour	(2 259)	(2 295)	(2.963)
Father working status	1.438	2.067*	3 367***
rune working status	(0.480)	(0.766)	(1 323)
Mother working status	1 646**	2 770***	(1.323) 2 482***
Montel working status	(0.404)	(0.742)	2.482
Naighbourhood with arima	(0.404)	2 120**	(0.794)
reignooumood with chine	2.431****	2.129**	(0.682)
II	(0.837)	(0.817)	(0.682)
nomeownersnip	0.612**	0.82/	0.878
	(0.150)	(0.211)	(0.246)

Causal effects (Odds Ratio): income and social capital					
	0.192***	0.194***			
	(0.0523)	(0.0583)			
	0.0660***	0.0609***			
	(0.0258)	(0.0281)			
		0.747***			
		(0.0699)			
		0.909*			
		(0.0483)			
		0.893*			
		(0.0591)			
		0.553***			
		(0.0602)			
1207	1207	1207			
0.235	0.302	0.418			
	ts (Odds d social d 1207 0.235	ts (Odds Ratio): d social capital 0.192*** (0.0523) 0.0660*** (0.0258) 1207 1207 0.235 0.302			

	Model 1	Model 2	Model 3
Family size	1.284	1.276	1.263
	(0.239)	(0.241)	(0.248)
Age (hh head)	0.947***	0.968**	0.958**
	(0.0133)	(0.0148)	(0.0167)
Citizenship (hh head)	0.386	0.502	0.655
21.171	(0.306)	(0.379)	(0.540)
Uniy child	0.827	0.628	0.641
2:1	(0.329)	(0.267)	(0.305)
Single parent	1.86/	0.626	0.693
Esther desction of some "Elements of	(1.004)	(0.459)	(0.558)
Middle school	0.078	1.059	0.770
windule school	(0.328)	(0.372)	(0.308)
High school	(0.528)	0.372)	(0.308)
riigii school	(0.247)	(0.356)	(0.427)
University	0.065	2,502	2 195
University	(0.494)	(1753)	(1.565)
Mother education - ref. group "Elementary"	(0.474)	(1.755)	(1.505)
Middle school	0.789	0.766	0.679
	(0.254)	(0.247)	(0.244)
High school	0.421**	0.414**	0.275***
	(0.164)	(0.166)	(0.120)
University	0.650	1.216	1.029
	(0.312)	(0.675)	(0.598)
Dropout	7.388***	8.251***	8.651***
	(2.057)	(2.380)	(2.630)
Father working status	0.337***	0.415***	0.455**
	(0.105)	(0.129)	(0.162)
Mother working status	1.176	2.339**	1.733
	(0.349)	(0.839)	(0.635)
Neighbourhood with crime	2.048**	2.353***	1.878*
	(0.618)	(0.737)	(0.641)
Homeownership	0.894	1.091	1.280
Homeownership	0.894 (0.225)	1.091 (0.295)	

income	and social	capital	
Family income - ref. group "Lower c	lass"		
Middle class		0.0947***	0.108***
		(0.0389)	(0.0454)
Upper class		0.0699***	0.138**
		(0.0715)	(0.135)
Trust family			0.863
			(0.0883)
Trust friends			0.806***
			(0.0461)
Generalized trust			0.941
			(0.0620)
Satisfaction with children			0.794**
			(0.0851)
No. of observations	579	579	579
Pseudo Adjusted R2	0.259	0.322	0.374
Robust standard errors in parenthese	s.		

Causal effects (Logit):					
family circumstar	nces and	educatio	on		
	VENETO	SICILY	S vs V		
Family size	2.186***	1.220	1.792*		
Dropout	1.962	1.683	1.166		
Only child	0.852	0.463	1.839		
Single parent	5.196**	0.912	5.700*		
Owner occupancy	0.751	0.988	0.760		
Mother education - ref. group "elementary"					
Middle	0.988	0.681	1.451		
High school	0.553	0.247**	2.240		
University	0.958	0.467	2.050		
Father education - ref. group "elementary"					
Middle	1.151	0.572	2.012		
High school	1.399	0.467	2.996		
University	0.681	0.914	0.744		
Citizenship (=1 if Italian)	0.264*	0.772	0.342		
Age	1.068**	0.952*	1.122***		
Working father	2.326*	0.437*	5.323*		
Working mother	3.368**	2.289*	1.471		
Envir_crime	2.070*	2.251*	0.919		

Causal effects (Logit): income and social capital

	VENETO	SICILY	S vs V
Quintile of hh income			
Second quintile	0.388*	0.365**	0.00420*
Third quintile	0.0854***	0.0498***	0.00679
Fourth quintile	0.0689***	0.193**	0.00141*
Fifth quintile	0.0213***	0.120	0.000701*
Social capital			
Trust in family members	0.836*	0.891	0.938
Trust in friends	1.034	0.808***	1.281**
Generalised trust	0.866*	0.944	0.917
Volontariness	0.890	1.071	0.831
Satisf ₂₀₁ with children relation	0.555***	0.954	0.582***

<section-header><list-item><list-item><list-item><list-item><list-item><list-item>

Major lesson to be learned

- Economic crises, in addition to reductions in public expenditures for social services, can affect a child or adolescent through a variety of settings, including the family, the school, and the community.
- The loss of family income, or wealth, that may result from an economic crisis is but one among the many pathways through which children and youth may be affected.

31/10/2014

Better data for evidence based policies and practices!

- In practice it is crucial to accurately identify the most important constraints affecting households and individuals within households through time.
- And more detailed information about parental stress, family coping strategies, income fluctuations and work status, and investments of time, as well as of financial resources in the human capital of their children, should be taken into account
- ... possibly within a cohort framework.

After the etiology ... better prevention, diversion and cures via community sanctions to realise youth potential



Diversion

- The majority of children who commit an offence will do so once: 90% are first-time offenders and 80% will never be in conflict with the law again.
- Diversion policies aimed at rebuilding family and community ties have a very positive impact on the child, the victim and the community.
- Diversion is cost-effective, it is non-stigmatising and reduces the likelihood of children reoffending.
- But still costs and is mainly under NGO's cofunded by the State ... bank foundations help only in Northern Italy

31/10/2014

Risultati della Ricerca



An istitutional view: a costless cure

- Policy objectives
 - Stronger families (female-headed hhs strong predictor of city crime rate) and higher quality of parenting
 - Stronger communities
- How? Investing in institutional innovations such as – Better laws without perverse incentives for families to
 - break
 - Fund community foundations: the State is moneyless, communities are better endowed with money, time, knowledge readily available to meet the needs of their own children and youth and to implement prevention, diversion and community sanctions effectively.

