

Addressing Youth Unemployment Through Training and Grants: Experimental Evidence From Kenya

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Motivation

- Youth unemployment is a major economic and social problem in Africa (World Bank, 2009)
 - Youth account for 60% of the unemployed
 - 72% of adolescents live on <\$2/day
- Kenya, in particular:
 - Has one of the highest unemployment rates in Africa (World Bank, 2016)
 - Young adults (aged 15-29) currently entering the labor force account for 30% of the population
 - ~21% of this age group is unemployed, and a further 25% are neither in school nor working (KIHBS, 2005)

Motivation

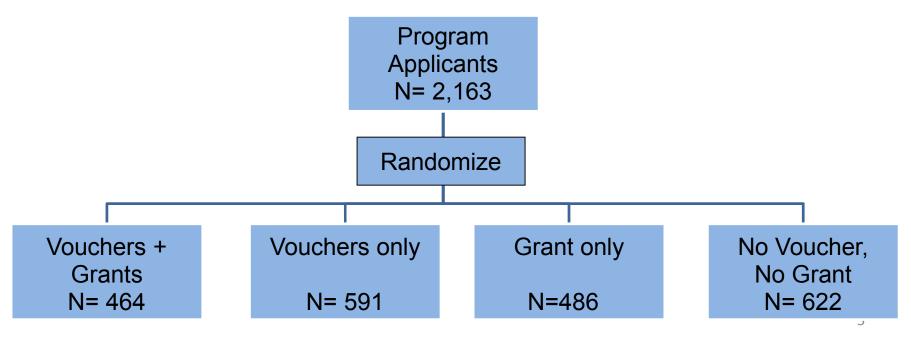
- Potential policy response #1: Skills Training (through vocational education)
- But, evidence suggests that it is unclear whether vocational education is sufficient to boost youth employment/entrepreneurship
 - Positive effects on employment and earnings:
 - Attanasio, Kugler, and Meghir (2011 & 2017) in Colombia; Alfonsi *et al.* (2017) in Uganda
 - Limited impacts on employment and earnings:
 - Card et al. (2011) in Dominican Republic, Hirschleifer et al. (2014) in Turkey, Cho et al. (2013) in Malawi
 - Review: generally modest effects at high program costs (Blattman and Ralston, 2015)

Motivation

- Potential policy response #2: Cash
- Growing interest in the potential for providing cash to youth
 - Simple to administer and deliver- esp with mobile money
 - Gives youth freedom and flexibility to invest as they see fit (not paternalistic)
- But, somewhat mixed evidence of grants
 - Increased earnings and labor supply
 - Blattman, Fiala and Martinez (2014)
 - Short term increases with fade out
 - Brudevold-Newman, Honorati, Jakiela, and Ozier (2017)
 - Del Mel et al. (2008), Fafchamps et al. (2012) show returns to grants higher for male run businesses.

This Study

- We conduct an Randomized Controlled Trial (RCT) to examine the effect of multiple interventions on youth labor market outcomes
 - Vocational training vouchers (start date: 2009)
 - Start-up capital / cash grants (start date: 2013)
 - Combination of training and cash



Study Sample

- Recruited youth from Western Kenya (part of the ongoing Kenya Life Panel Survey, KLPS) in 2008
 - KLPS individuals were invited to meetings to hear about a new program to support vocational training
 - Sample = those who completed a program application
- Characteristics at baseline (2008)
 - Males and females (63% female)
 - Late teens/early 20s (avg 21.7 years old)
 - 89% living in Busia County (Western Kenya), 6% in a large city
 - 8.8 years of mainstream schooling completed, out of school for nearly 4 yrs
 - 22% had previously attended vocational training
 - 14% were employed

Voucher Intervention: Design

- Among eligible applicants (2,163), 50% were awarded no voucher, 25% were awarded a restricted voucher (usable at public institutions only), 25% were awarded an unrestricted voucher
- Voucher value was ~\$460, enough to cover (nearly) all fees (but not incidentals like transport & boarding)
- Vouchers distributed in early 2009

Voucher Intervention: Take Up

- Take up was high, 74% enrolled for at least 1 term
 - Less than 4% of non-voucher winners enrolled in training
 - Unrestricted voucher winners were significantly more likely to enroll than restricted (public-only) voucher winners (79% vs. 69%)
 - Applicants showed a moderate preference for public training centers (56% to 44%)
- No statistically significant differences in take-up across gender, age group, baseline education
- Out of pocket costs (transport, etc.), maternity, pregnancy, and childcare cited as barriers to take-up

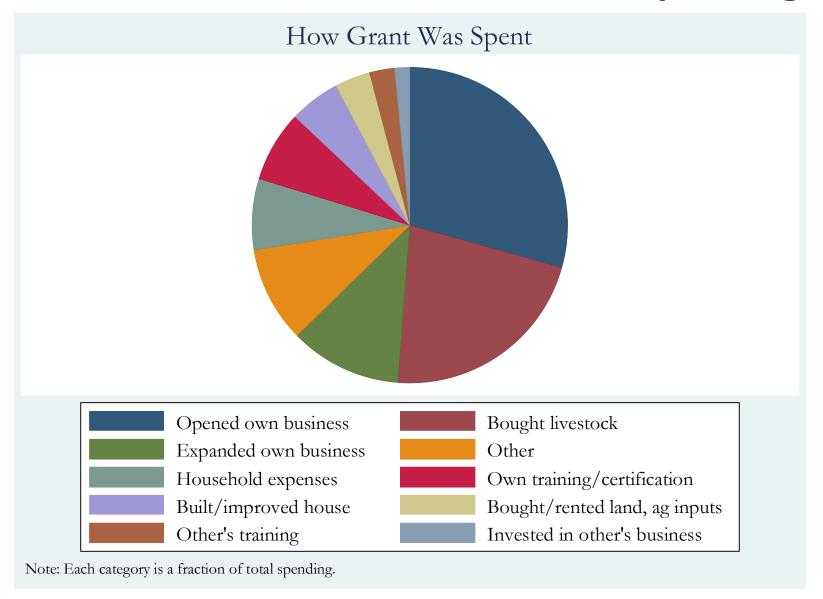
Voucher Intervention: "First Stage"

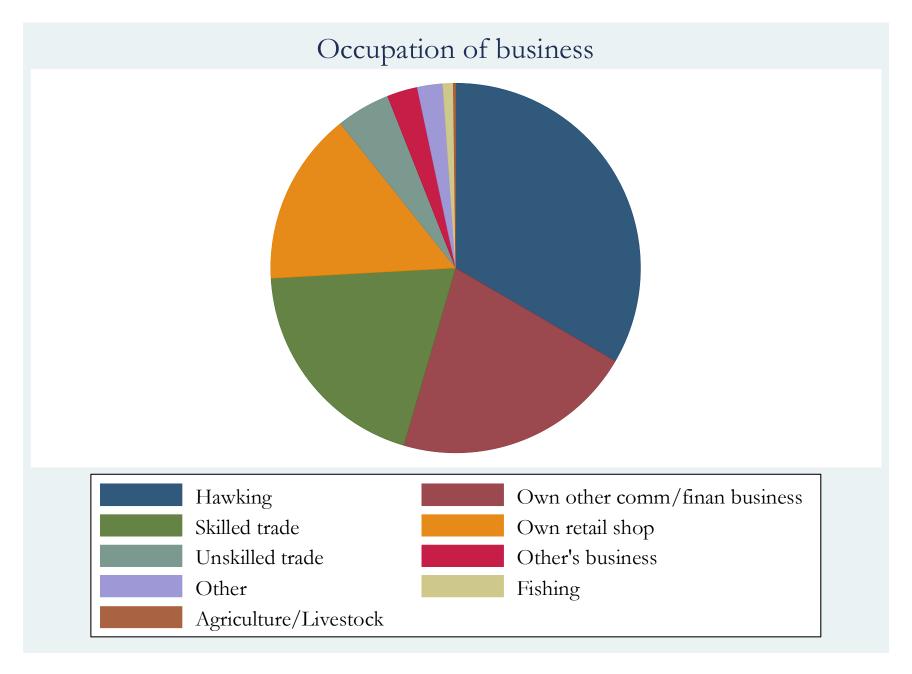
- Relationship between voucher receipt and years of vocational education (impact on training)
- By 2011-2014 follow-up survey:
 - Control group completed 0.3 years of voced
 - Voucher winners completed about 0.6 years more than their control group counterparts (total of almost one year or 200% more)
- By 2016 follow-up survey:
 - 37% of overall sample completed a vocational training course
 - 50% of voucher recipients completed a course compared to only 24% in the control group

Cash Intervention: Design

- Of the 2,200 youth, approximately half were randomly assigned to receive a cash grant (\$250) starting in 2013
 - Stratified by voucher winner status
 - Grants distributed after the first vocational training intervention follow-up survey was complete
 - Among those individuals who were physically located, uptake of the grant was 99%
- Unconditional grant, but prior to receipt winners
 were given "light encouragement" and pamphlets
 with tips on starting and running a business, in an
 effort to encourage use of the grants for investment
 in entrepreneurship

Cash Intervention: Distribution of Spending





Impacts: Unemployment

	Indicator for unemployed						
	KLPS-3	SCY F1	SCY F2	Pool	led		
Grant Winner		-0.09***	0.01	-0.04***	-0.02		
		(0.02)	(0.02)	(0.01)	(0.02)		
Training Voucher	0.05**	-0.01	0.05***	0.03***	0.04***		
	(0.02)	(0.02)	(0.02)	(0.01)	(0.01)		
Grant x Voucher					-0.04*		
					(0.02)		
Adj R-squared	0.01	0.02	0.02	0.03	0.03		
Control Mean	0.30	0.27	0.17	0.25	0.25		
Control SD	0.46	0.44	0.38	0.44	0.44		
N	1912	1983	1997	5892	5892		

Impacts: Self-Employment

	Indicator for self-employed						
	KLPS-3	SCY F1	SCY F2	Poo	led		
Grant Winner		0.20***	0.07***	0.14***	0.13***		
		(0.02)	(0.02)	(0.02)	(0.02)		
Training Voucher	-0.03	0.03	-0.02	-0.00	-0.01		
	(0.02)	(0.02)	(0.02)	(0.01)	(0.01)		
Grant x Voucher					0.02		
					(0.03)		
Adj R-squared	0.04	0.07	0.03	0.06	0.06		
Control Mean	0.24	0.28	0.30	0.27	0.27		

0.45

1964

0.46

1997

0.47

5874

0.49

1913

Control SD

Ν

0.47

5874

Impacts: Labor Supply (Hours Across All Sectors)

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Hours	worked	aross all	sectors	1n	last	week

	KLPS-3	SCY F1	SCY F2	Po	oled
Grant Winner		3.61**	-0.38	1.74*	2.37*
		(1.42)	(1.29)	(0.96)	(1.26)
Training Voucher	0.29	-1.35	-0.86	-0.60	-0.22
	(1.24)	(1.40)	(1.31)	(0.76)	(0.91)
Grant x Voucher					-1.28
					(1.65)
Adj R-squared	0.08	0.05	0.05	0.06	0.06
Control Mean	32.10	35.78	38.40	34.77	34.77
Control SD	27.81	33.30	31.14	30.37	30.37
N	1914	1983	1997	5894	5894

Impacts: Labor Supply (Hours in Self-Employment)

Hours worked in	n self-emp	loyment in	last week
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	KLPS-3	SCY F1	SCY F2	Poo	led
Grant Winner		4.96***	1.03	3.03***	3.46***
		(1.06)	(0.99)	(0.72)	(0.95)
Training Voucher	-0.68	0.10	-1.25	-0.54	-0.28
	(0.76)	(1.04)	(0.99)	(0.54)	(0.62)
Grant x Voucher					-0.86
					(1.24)
Adj R-squared	0.02	0.02	0.01	0.03	0.03
Control Mean	7.10	8.94	10.59	8.52	8.52
Control SD	17.11	21.27	22.43	19.83	19.83
N	1912	1964	1996	5872	5872

Cash and Training: Earnings Impacts

Average monthly total earnings (Self-emp + Wage + Ag) (USD, top 1% trimmed)

	KLPS-3	SCY F1	SCY F2		Pooled
Grant Winner		3.21	1.84	2.18	1.68
		(2.63)	(2.68)	(1.88)	(2.43)
Training Voucher	-1.89	-0.81	1.78	-0.78	-1.08
	(1.93)	(2.59)	(2.68)	(1.42)	(1.65)
Grant x Voucher					1.00
					(3.21)
Adj R-squared	0.11	0.14	0.16	0.14	0.14
Control Mean	28.54	36.85	41.57	34.47	34.47
Control SD	44.57	62.50	61.55	55.25	55.25
N	1894	1966	2025	5885	5885

Cash and Training: Earnings Impacts

Average monthly self-employment profits (USD, top 1% trimmed)

	KLPS-3	SCY F1	SCY F2	Po	ooled
Grant Winner		22.26	-35.88	-8.33	-13.44
		(14.33)	(31.52)	(18.18)	(28.56)
Training Voucher	-1.20	-10.12	-39.15	-16.86	-19.97
	(1.84)	(12.70)	(33.65)	(12.15)	(16.66)
Grant x Voucher					10.35
					(21.65)
Adj R-squared	0.00	-0.00	0.00	0.00	0.00
Control Mean	7.08	9.78	89.06	30.08	30.08
Control SD	39.88	33.41	1588.05	828.73	828.73
N	1871	1954	1997	5822	5822

Cash and Training: Earnings Impacts

Average monthly wage employment earnings (USD, top 1% trimmed)

	KLPS-3	SCY F1	SCY F2	Po	oled
Grant Winner		-4.72	-0.56	-3.67	-4.22
		(2.95)	(3.32)	(2.23)	(3.18)
Training Voucher	-2.80	-2.27	-2.74	-3.42*	-3.75
	(3.77)	(2.99)	(3.35)	(1.93)	(2.37)
Grant x Voucher					1.10
					(4.10)
Adj R-squared	0.05	0.12	0.14	0.09	0.09
Control Mean	26.65	33.52	37.47	31.39	31.39
Control SD	87.42	77.67	83.96	84.09	84.09
N	1904	1957	1997	5858	5858

Cash and Training Impacts

- Short-run: 2015 data
 - Grants recipients report increase # of meals consumed,
 .improved economic situation, increase in happiness,
 increase in (self reported) health.
 - No effect on any of these outcomes from voced or interaction term
- Medium-run: 2016 data
 - Grant effects on earnings and hours dissipate over time
 - Shifts way from wage employment and into selfemployment sustained
 - Grant recipients less likely to be unemployed
 - No effects from cash or training on wages earnings

Cash and Training Impacts

- Limited synergies between cash and training
- Top 10 jobs- generally low barriers to entry
 - Hawker, tailor, mason, barber/hairdresser
 - Fisher, teacher, own business other than shop
 - worker in other person's business
 - bicycle mechanic, agricultural laborer

Conclusion

- No vocational training impacts, even after 5 years
 - Not a good model?
 - Outdated or irrelevant curriculum?
- Cash effects dissipate quickly
 - Similar to Brudevold et al. (2017) but different to Blattman et al. (2014)
- No effects of combination
 - Most youth simply became petty traders and did not invest in "growth opportunities"
- Broad limitation- lack of "good jobs" in the labor market?