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Evaluating WIA Using Administrative Data

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Evaluating WIA Using Administrative Data

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Purpose

- Summarize and compare results from:
- (1) Hollenbeck, Schroeder, King, and Huang, Net Impact Estimates for Services Provided through the Workforce Investment Act, 2005 (Multi-state study)
- (2) Hollenbeck & Huang, Net Impact and Benefit-Cost Estimates of the Workforce Development System in Washington State, 2003
- (3) Hollenbeck & Huang, Net Impact and Benefit-Cost Estimates of the Workforce Development System in Washington State, 2006
- (4) Hollenbeck & Huang, Workforce Program Performance Indicators for The Commonwealth of Virginia, 2008
- Present some evidence on rates of return to workforce programs

Background

- All four studies are net impact evaluations
 - An individual encounters a workforce program and is offered services (*treatment*).
 - Outcomes ensue (we're mainly interested in employment and earnings)
 - Net impact is the difference between outcomes and what would have happened if the individual did not receive the treatment (counterfactual)
- Null hypothesis is that net impact is zero.
- The two Washington State studies go beyond net impact and examine cost effectiveness.

Approach (Methodology)

- Quasi-experimental
 - "Treatment group" from administrative data; "comparison group" from Employment Service data (usually)
 - "Treatment" in studies (1) to (4) defined as "encountered the workforce program," i.e. in WIASRD for WIA clients
 - Additional "treatment" in (1), which is "entered training" and "comparison group" includes WIA clients who did not receive training as well as Employment Service data
- Statistical matching used to construct comparison group
 - Matching variables mainly pre-program labor force, and also demographics and education at program entry

Approach

(Data and time periods)

- In multi-state study
 - Data are WIASRD and ES files linked to UI wage and TANF records for 7 or the 9 ADARE states: FL, GA, IL, MD, MO, TX, and WA. Exiters from programs in PY 2000 and 2001.
- In Washington
 - Data are program administrative files linked to UI wage, UI benefit, and TANF/Food Stamps/Medicaid records. Exiters from programs in PY 1997 and 1999 (study 2) and PY 2001 and 2003 (study 3).
- In Virginia
 - Data are program administrative files linked to UI wage records.
 Exiters in PY 2005.

Results: Net impact comparisons

Selected Net Impact Estimates for Any WIA/JTPA Services

Colocted Het IIII			 		
			ome		
		Employmen	nt Quarterly	Wage	Quarterly
Program	Study	Rate (%)	Hours	Rate (\$)	Earnings ^a (\$)
WIA-Adults	(1)	8.7***			856***
JTPA II-A	(2)	7.4***	23.9***	0.68	645***
WIA-Adults	(3)	6.6***	35.9***	0.67	455***
	` ,				
WIA-Dislocated Workers	(1)	13.5***			1,097***
JTPA III	(2)	7.3***	26.6***	-0.10	554***
WIA-Dislocated Workers	(3)	6.4***	48.8***	0.97***	771***
WIA-Adults & DW	(4)	3.4***			1,146**
	(- /				.,
JTPA II-C	(2)	5.3***	2.3	-0.71	-85
WIA Youth	(3)	10.3***	31.1***	0.77***	325***
WIA Youth	(4)	-3.9**			76**

Notes: *** represents statistical significance at the 0.01 level; ** represents statistical significance at the 0.05 level; * represents statistical significance at the 0.10 level. a In \$2005/2006.

Net Impacts of Receiving Any Training vs. Other Services (from multi-state study)

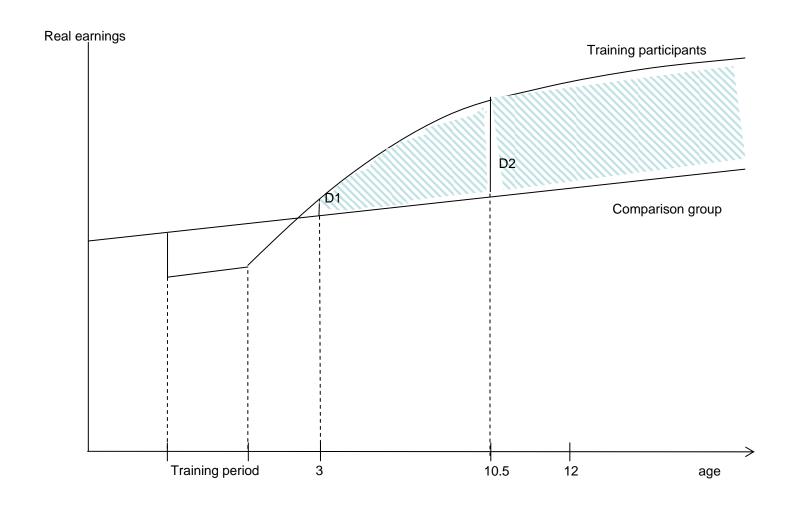
EMPLOYMENT							
	Adults	Dislocated Workers					
Overall impact	4.4%**	5.9%**					
Impact range	-1.3% 11.0% **	-1.3% 11.0% **					
Impact for men	2.1% **	5.0% **					
Impact for women	6.5%**	7.1%**					
EARNINGS (\$2005/2006)							
Overall impact	\$771**	\$445**					
Impact range	-\$300** \$1,362**	-\$286** \$1,435**					
Impact for men	\$636**	\$412**					
Impact for women	\$893**	\$486**					

Any training = WIA training (or referral to training services by ES in 2 states) in addition to core/intensive services

Other Services = If WIA client, then core or intensive services only; if ES, then no referral to training (in two states)

Note: significance ** = p < 0.01, * = p < 0.05, not shown for range

Typical Earnings Profiles of a Training Participant and Comparison Group Member



Discounted Benefits and Costs and Rates of Return for Washington's Education and Training System over Working Lifetime, by Program (r.o.i. are quarterly interest rates)

			Private			Public			Social	
Program	Study	Benefits	Costs	r.o.i.	Benefits	Costs	r.o.i.	Benefits	Costs	r.o.i.
Federal Job Training (Adults) JTPA II-A WIA I-B	(2) (3)	\$62,744 38,928	\$ 403 -1,111	20.52%	\$25,092 6,241	\$3,791 5,744	9.26% 0.21%	\$87,836 45,170	\$4,194 4,633	13.23% 15.14%
Federal Job Training (Youth) JTPA II-C WIA I-B Youth	(2) (3)	30,235 29,002	384 0	3.08%	6,770 8,282	2,605 6,617	6.08% 0.07%	37,005 37,284	2,989 6,617	3.61% 4.55%
Dislocated Workers JTPA III WIA I-B Worker Retraining ^a Worker Retraining ^a	(2) (3) (2) (3)	81,327 49,201 70,012 23,938	13,640 10,746 18,631 8,952	5.19% 5.00% 2.86% 2.82%	25,719 18,440 22,803 7,049	2,885 7,081 5,256 5,421	6.81% 5.15% 3.93% 0.60%	107,046 67,641 92,815 30,987	16,525 17,827 23,887 14,373	5.53% 5.04% 3.08% 2.14%
Education Secondary CTE Secondary CTE	(2) (3)	70,505 43,491	432 -32	37.05%	13,389 8,414	974 811	10.39% 9.29%	83,894 51,905	1,406 779	23.04% 43.97%
Comm. College Job Prep Comm. College Job Prep	(2) (3)	103,926 95,228	5,034 6,474	10.44% 15.10%	31,235 14,873	7,748 7,523	3.55% 2.20%	135,161 110,101	12,783 14,397	7.08% 9.19%
Private Career Schools	(3)	35,089	308	c	1,279	0	c	36,368	308	c
Adult Basic Ed. ^b Adult Basic Ed. ^b	(2) (3)	4,944 5,558	311 -146	++	3,020 -5,558	1,101 2,570	1.34%	7,964 0	1,412 2,424	5.75% —
Apprenticeships	(3)	197,896	-24,465	_	49,288	2,668	24.25%	247,184	-21,797	_
Disability Services Vocational Rehabilitation Blind and Visually Impaired	(3) (3)	56,560 100799	-643 1,059	— ++	11,302 20,094	8,504 24,358	0.75% -0.55%	67,862 120,893	7,861 25,417	11.99% 7.39%

Notes to Previous Table

Study (2) is Hollenbeck and Huang 2003 (Washington State); Study (3) is Hollenbeck and Huang 2006 (Washington State). Table entries are for average participant. Benefits include earnings, fringe benefits, and income-related transfers payments. Costs include tuition and fees (if any), foregone earnings, and public program costs per participant. \$ figures are in real \$2005/2006. — means that r.o.i. could not be calculated because of 0 or negative benefits or costs. ++ means r.o.i. is implausibly high.

- ^a A state-funded program for dislocated worker training.
- ^b As administered by the Community and Technical College system.
- ^cNo data collected on tuition or fees, so costs are partial. We therefore did not calculate r.o.i.

Comparisons to National JTPA Study (NJS)

Net Impacts of JTPA II-A NJS (U.S. GAO study using wage record data; inflated to \$2005/2006))

	Mal	es	Females			
Year after assignment	Annual employment	Quarterly earnings	Annual employment	Quarterly earnings		
+2	0.6	200*	2.6*	270*		
+3	2.4	206*	3.1*	210*		
+4	3.7*	196	2.0	196*		
+5	1.2	110	1.3	137		

^{*}Significant at 0.05 level.

Washington State JTPA II-A (from above)

Quarters after exit 8-11

Employment 7.4***

Earnings 645***

Benefit-Cost of JTPA II-A

NJS 30 months after registration

Social b-c

1.50 (Abt report)

WA state

30 months after exit

Social b-c

1.21

Policy Implications

- Can use administrative data to estimate net impacts of education and training programs
- Decomposing earnings impacts into employment, hours, and wage rates adds insight
- Public and society reap substantial returns on virtually all education and training programs

Comments or questions are welcome.

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