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ABSTRACT

The relationship between self-concept measures or deprived mothers and self-concept measures of their children is re-examined empirically. An accidental discovery was made correlating mothers' pre measures of self-concept to their childrens' post measures of self-concept. (CK)



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A REPLICATION AND AN EXAMPLE OF SERENDIPITY IN EDUCATIONAL RESEARCH

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Background and Objectives

A considerable body of research exists linking the child's school-related behavior and achievement with his self-concept measures (Morgan, 1961; Clifford, 1966; Davidson and Lang, 1960; Fink, 1962; Shaw, Edson and Bell, 1960; Shaw and Alves, 1963; Brookover, Thomas and Patterson, 1964). Research findings exist linking self-concept measures to various facets of delinquency and abnormality (Fitts and Hamner, 1961; Fannin and Clinard, 1965; Lefeber, 1965; Balester, 1956; Reckless and Dinitz, 1956). Since self-concept measures relate to many facets of a child's life, it appears meaningful to study factors related to the shaping of the child's self-concept.

Child development and educational psychology literature abounds with statements and findings relating the importance of parents and significant others in the development of the self-concept of the child (Combs and Snygg, 1959; Medinnus and Curtis, 1967; Hurley, 1967; Bayley and Schaefer, 1967; Peterson, et. al., 1967; Gordon, 1959). The present study attempts to re-examine empirically the relationship between self-concept measures of deprived mothers and self-concept measures of their children.

At the 1971 American Educational Research Association convention a paper entitled "Mother-Child Self-Concept Transmission in Florida Model Follow Through Participants" was presented (Tocco and Bridges, 1971). That study was based on 323 sets

of self-concept measures collected on deprived children and their mothers. The How I See Myself (H.I.S.M.) Scale and the Social Reaction Inventory (S.R.I.) were used to assess mothers' self-concept measures and the Children's Self Social Constructs Test (G.S.C.T) was used to assess childrens' self-concept measures (See Appendix A for descriptions of these scales and a brief description of the Florida Follow Through Model). Both sets of data were collected early (pre) in the school year and late (post) in the school year. The following hypotheses were tested:

- 1. Self-concept measures of mothers are related to self-concept measures of their children.
- 2. Self-concept measures of mothers recorded at the beginning of the school year are related to change in self-concept measures of their children over the course of the school year.
- 3. Change in self-concept measures of mothers over the course of the school year is related to change in self-concept measures of their children over the same time period.

Originally, the set of children's pre measures (C.S.S.C.T.) was correlated with the set of mothers' pre measures (H.I.S.M. and S.R.I.) using the canonical correlation analysis. Two of the possible canonical R's were statistically significant, one (.334) beyond the .005 level and the other (.317) beyond the

.05 level. The set of mothers' pre measures was correlated with the set of children's difference (post minus pre) measures, using the same analytical methodology. One of the possible canonical R's (.307) was statistically significant beyond the .05 level. Both sets of difference measures were similarly analyzed; however, no statistically significant R's emerged. See tables one through six under the 1968-69 headings for more complete statistical information on the original results. Methods, Data Sources, and Results

A replication of the study was undertaken from 1,004 sets of deprived mothers' and childrens' measures (from ten communities in nine states) in an attempt to re-substantiate the above findings. The same canonical analyses were run and the initial results were re-substantiated. By mistake, on the first data run, the canonical program was entered with an incorrect format. The relational result was twice as large (.658, p <.001) as any result previously encountered. examination of the data format indicated that the computation was between the set of mothers' pre measure and the set of childrens' post measures. This relationship was not hypothesized and was discovered fortuitously through error. It is now evident that mothers' pre self-concept measures, using the H.I.S.M. and S.R.I. are related to childrens' post C.S.S.C.T. self-concept measures, clearly a serendipitous finding. See tables one through seven under the 1969-70 headings for more complete statistical information on the

replication and Table eight for similar information on the serendipitous finding.

Importance of Study

The conclusions made as a result of this study were based upon the statistically significant results. These were to re-substantiate that: (1) mothers' self-concept measures are related to chidren's self-concept measures, and (2) mothers' self-concept measures taken at the beginning of the school year are related to change in children's self-concept measures over the course of the school year. The third result was obtained serendipitously, and suggests that mothers' beginning of school year self-concept measures are related to childrens' end of school year self-concept measures. It should be noted that although the variance accounted for in relationships one and two stated above was small, approximately ten percent, the second and third relationships appear to have practical as well as statistical significance. Despite the fact that when using the canonical methodology, the measured relationships is maximized and the resulting estimate of variance accounted for somewhat inflated (Soar, 1962), the second and third relationships appear to have practical as well as statistical significance. With respect to the second relationships, Thorndike (1966) indicated that even in relatively standardized achievement data the correlation between status and growth appears to be about .10. In light of the above, the relationship between mothers' status and their children's

growth appears substantial. The magnitude of the relationship between mothers' beginning of school year measures and childrens' end of school year measures clearly points to practical as well as statistical significance.

 2 Tests of Successive Latent Roots for Pre Canonical Analysis

TABLE 1

4	ω	2	1	0		Number of Roots Kemoved
.019	.026	.061	.100	.112	68-69	Largest Latent Root Remaining
.001	.014	.017	.026	.090	69-70	Latent
.136	.160	.246	.317	.334	68-69	Corresponding Canonical R
.037	.118	.132	.160	.300	69-70	onding
.981	.956	.899	.808	.718	68-69	
.999	.985	.968	.943	. 858	69-70	Λ
5.90	14.01	33.61	66.83*	103.96***	68-69	×
1.36	15.31	32.80	58.61*	* 152.45***	69-70	2
œ	18	30	44	* 60	•	D. F.

^{*** .0005} level of significance

* .05 level of significance

TABLE 2

α And 8 Weights for the First Significant Pre Canonical R

Parent Measures	69-89	α 69-70	Child Measures	8 68-69	02-69
SRI I/E	-,944	-,476	Forced Choice-Mother	4.712	.813
Teacher-School	553	375	Forced Choice-friends	4.616	.172
Physical Appearance	.553	291	Forced Choice-Teacher	4.294	.317
Autonomy	.047	368	Forced Choice-Father	3.685	.277
Onterpersonal Adequacy	.038	202	Identification-Mother	.349	210
			Identification-Teacher	.322	.158
			Identification-Father	234	990.
		. 1	Identification-Friends	181	. 200
			Realism Cclor	.157	474
	-		Esteem	660*-	.240
		• •	Dependency	002	261
			Realism-Size	. 002	124

 $\footnote{\circ}$ and β Weights for the Second Significant Pre Canonical R

TABLE 3

Parent Measures	68-69	^α 69-70	Child Measures	68-69	68-69 ⁸ 69-70
Interpersonal	-1.021	-1.164	identification-Father	624	+.053
Autonomy	.839	144	Forced Choice-Mother	519	.759
Teacher-School	593	.332	Dependency	354	-1.12
Physical Appearance	.157	.552	Forced Choice-Teacher	.341	.486
SRI I/E	062	.534	Realism-Size	.330	.464
			Identification-Friends	226	152
			Identification-Teacher	.215	.031
			Realism Color	.177	-1.94
			Identification-Mother	.131	.242
			Esteem	090	063
•*			Forced Choice-Father	079	•005
			Forced Choice-Friends	072	.653

TABL3 4

x Tests of Successive Latent Roots for Pre Derference Canonical Analysis

Roots Removed	Root Remaining	aining	Canonical R	Canonical R			X	×	D. F.
	02-69 69-89	02-69	69-89	02-69	69-89	69-70	69-89	02-69	
	, 094	•065	.307	.255	11.	.891	81.86*	114.87***	09
	.077	.026	.278	.160	.850	.953	50.89	47.97	77
	£70·	.010	.207	. 660	.921	.978	25.70	22.16	30
	.026	.007	191•	.084	.963	.988	12.00	12.36	18
	.012	.005	.110	.073	.988	.995	3.81	5.32	∞

*** .005 level of significance * .05 level of significance

TABLE 5

α and β Weights for the Significant Pre Difference Canonical R

Parent Measures	asures	68-69 °	ه 69-70	Child Measures	68-69	6 69-70
Physical Appearance	arance	. 697	.111	Forced Choice-Friends	.931	.104
Autonomy		574	.406	Forced Choice-Teacher	.516	•258
Interpersonal	Adequacy	.441	.331	Forced Choice-Father	-510	• 083
Teacher-School		. 265	. 405	Identification-Father	419	•136
SRI I/E		051	.431	Realism Color	• .	131
ru V				Forced Choice-Mother	. 363	• 284
• .				Identification-Friends	329	•086
				Identification-Mother	296	1.12
				Dependency	287	• 424
	·			Esteem	206	.122
				Realism-Size	• 1 82	•160
				Identification-Teacher	.029	002

TABLE 6

THE PROPERTY OF THE PROPERTY O

x Tests of Successive Latent Roots for Difference-Difference Canonical Analysis

9 2 2 2 3 3 4 3	D. F.		09	7.7	30	18	∞	٠
	200 (0.00)	0/-69	108,13***	59.68	31.54	16.37	3,35	
	X	69-89	70.62	38.13	21.81	9.36	3.05	
		07-69 69-89	.897	.942	696•	.983	.987	
All Control of the	Corresponding Canonical R	69-89 07-69 69-89	.314 .218 .799	.225	.197	1.6. 711.	.098	
A CONTRACT OF THE PROPERTY OF	Largest Latent Root Remaining	<u>04-69</u> <u>69-89</u>	.098	.051 .028	.039 .015	.020 .013	.10 .003	
	Number of Roots Removed		•	2*	2		*	

*** ... 005 level of significance

The state of the s

TABLE 7

 lpha and eta Weights for the Significant 1969-70 Difference-Difference Canonical R The second secon

				in the second se			Autonomy	SRI/IE	Interpersor	Physical Appearance	Teacher-School	Parent N	
						1 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	675 144 645 675	Property of the second	Interpersonal Adequacy	opearance	1001	Parent Measures	
						Ma Qui ske in ske in	•021	213	266	• 283	.624	2	
Identification-Teacher	Dependency	Identification-Friends	Esteem	Realism Size	Forced Choice-Friends	Realism Color	Identification-Teacher	Forced Choice-Father	Identification-Mother	Forced Choice-Teacher	Forced Choice-Mother	Child Measures	
.010	030	€:.068	.150	•158	• 204	•225	S 263	.267	277		489	B	
		And Control								•358		8	
		Friends or. 068 75 to 100											

TABLE 8

x Tests of Successive Latent Roots for Pre-Post 1969-70 Canonical Analysis

		ei E			τ.		. :
	D. F.	Ç	3 · 3	; ;	0	18	∞
		***	7				
the same of the sa		****0> 869	0000 0000 0000		32.76	8.56	2.49
	*	530	7 000	747.	.968	.998	866.
	Corresponding Canonical R		2	7	9	∞	9
	Corres			597 •	.153	.078	.050
	Latent						
	Largest Later Root Removed		.436	.027	•024	900.	•003
	Number of Roots		•		7	9	7
	Numb						

**** .001 level of significance

TABLE 9

α and β Weights for the 1969-70 Significant Pre-Post Canonical R

							Physical Appearance	SIR/IE	Teacher-School	Autonomy	Interpersonal Adequacy	Parent Measures
							.017	. 329	.342	•365	.399	2
Identification-Teacher -	Esteem	Identification-Mother -	Identification-Father	Identification-Friends -	Realism Color -	Realism-Size	Dependency	Forced Choice-Father 1	Forced Choice-Mother +1	Forced Choice-Teacher	Forced Choice-Friends	Child Measures
.016	.024	.025	.026	•049	.064	.094		1.193	+1.205	1.248	. 252	

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Appendix A

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INSTRUMENTS

P.N. Compared to a superior with the new cares.

The instruments used to assess the self-concepts, by way of the self-report were for children, the Children's Self Social Constructs Test (Long, Henderson, and Ziller, 1967); and for parents, the How I See Myself Scale (Gordon, 1968), and the Social Reaction Inventory (Gordon, 1968).

The Children's Self Social Constructs Test. The Childord or higheric busing of production of the descripting and the contract ren's Self Social Constructs Test, developed by Long, Henderson, es the book of the test some the profession for the profession of and Ziller (1967), gives rise to twelve measures which natively fles that he emon about dustine a furbalist for the content of the content of are esteem, dependency, identification with mother, identi-THE CONTROL OF THE PROPERTY OF THE PARTY OF fication with father, identification with friends, identification with teacher, realism size, realism color, forced choice mother, forced choice father, forced choice friends, and forced choice teacher. Split-halves tests of reliability on the pre-school C.S.S.C.T. factors have revealed reliabilities ranging from .48 to .85 with a median have relability of .73 (Long, Henderson and Ziller, 1967). Long, Henderson, and Ziller (1967) have fully discussed content and construct validation for each factor on the C.S.S.C.T.

The How I See Myself Scale. The How I See Myself Scale developed by Gordon (1968) gives rise to four factors which are Interpersonal Adequacy, Physical Appearance, Autonomy, and Teacher-School. Test-Retest reliabilities for these four factors were reported as .86, ..58, .54, and .68 respectively

the state of the second state of the second state of the second s

(Gordon, 1968).

The Social Reaction Inventory. The Social Reaction Inventory is a modification of the Rotter Internal-External ប៉ូត្រូវ មេដ 1 7 Scale (Gordon, 1968). The items on the Rotter (1966) John Will Market Land Internal-External Scale were rewritten on a fourth-grade 19 Tank Companies Harris II built 1970 vocabulary level so as to make it usable on disadvantaged THE RESERVE THE RESERVE OF THE STATE OF THE mothers. The Social Reaction Inventory gives rise to one their controls with an action their deficiel for the score which is a measure of perceived Internal vs. External AN JAN LENGTH HUBBERTON control of environment. Test-Retest reliability on the වේද විද්යාවේ ඇති සිදුවෙන් වෙන්නේ අවාර්ත සියි සම්පතිය මෙයදම් විදුවෙන්නේ ඇති විද්යාවේද වැඩිමේ ස්ථාවම්ය Social Reaction Inventory was reported as .78 (Gordon 1968). that the constances setting at the strain of the strain of the standing of weather there Gordon (1968) discussed content and construct validation The conservation of the manifestable frame in the contraction of the contraction of the contraction of the of both the How I See Myself and the Social Reaction In-20、 被表现实的企业主义是《基本企业 医经验证的原则 ventory. romandie grade de mark kraat gebijse de kriske in de midstel trip hat de kriske film

THE FLORIDA FOLLOW THROUGH MODEL

Home intervention is the key element of the Florida

Follow Through Model. The home intervention agent is the

Parent Educator. This person typically is a mother from

the local community who is highly aware of the social prob
lems facing the children with whom she works. Because she

is local, generally she "talks the same language" as the

parents she deals with. She functions in many roles. She

works with children in the classroom and visits their

homes. During her home visitations she presents educational

tasks to the mother. She works with the mother until she

is confident that the mother can present the task to the

child in an appropriate manner. The Parent Educator serves

in liaison between the home and the school. The Florida Follow Through Model does not conceive of the Parent Educator as a "teacher aide" in the traditional sense of that position; rather, she is viewed as a viable, active part of the educational process.

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