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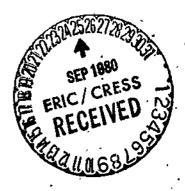
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ABSTRACT

Since the phenomenon of reabuse is postulated as being more probable after initial child abuse than is the probability of an initial abuse and since only modest inquiry has been directed at this phenckenon, research was conducted to answer two questions: Is there patterning to reabuse? And if sc. is this different in metro and nonmetro environments? Data were derived from the official wisconsin Central Registry of Child Abuse reports for January/1973 -May/1978, during which time a very structured instrument was used for 10.666 reports. General variable areas investigated were geographical environment, abuse incident characteristics, demographic characteristics, and case management by the social worker. Of the certain or legally established cases, 2,439 (56.5%) were metro and 1,874 (43.5%) were nonmetro cases. This constituted an averaged annual abuse rate of 48.3 metro and 54.1 nonmetro per 100,000 children. Retained for analysis were 310 reports (152 metro/158 nonmetro) where reabuse had occured and had been recorded. This constituted an averaged annual reabuse rate of 0.30 metro and 0.46 nonmetro per 100,000 children. It was concluded that there was patterning but not very strong and that the patterning was somewhatdifferent in metro/nonmetro areas. It was also concluded that the model developed for forecasting was only slightly better than chance. (AN)

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FORECASTING REPEAT CHILD ABUSE FROM

INITIAL SOCIAL WORKER REPORTS:

A Metropolitan and Non-metropolitan Comparison

Paper presented at

1980 Rural Sociological Society Meetings Cornell University Ithaca, New York August 20-23, 1980

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Awareness of child abuse has increased dramatically in recent years. It receives prominence in the media, universities offer courses on it, and politicians pass laws to fight it (as for example Publ.L. No. 93-247, the federal Child Abuse Treatment Act). Whether or not its incidence is increasing or epidemic has yet to be fully determined. Some estimates of frequency of occurrence are so broad as to have little meaning. Soeffing (1975), in perhaps a conservative estimate, suggests prevalance to be between 60,000 and 500,000 annually. Alvey (1975) asserts a more prevalent occurrence with estimates of one to four million.

In efforts to create awareness of its brutality, and in research into understanding the phenomenon, many efforts seem to be directed at distinguishing abusers from non-abusers. Only modest inquiry appears directed at the phenomenon of reabuse (Herrenkohl, 1979; Cohn, 1979), although that behavior is postulated as being more probable, after an initial abuse, than is the probability of an initial abuse. Cohn (1979) cites reports on reabuse in selected projects as varying from 13 to 51 percent even when excluding reports of emotional abuse, mild physical injuries, emotional neglect, and mild physical neglect. She concludes a 30 percent reabuse "seems high." Nevertheless, the apparent frequency of the reabuse phenomenon justifies study and provides the focus of this inquiry.

The specific questions raised are 1) is there patterning to reabuse such that initial incidents may be destinguished as to whether or not abuse is likely to reoccur; and 2) if there is patterning, is this deferent in metropolitan and non-metropolitan environments.

The data source for the study is the official Central Registry of Child Abuse reports in the State of Wisconsin for a five year, five month period. In Wisconsin, child protective workers in County Departments of Human Services, by statute, are required to investigate all reports of child abuse within their county. Over the years various report forms have been used, but for the period from January 1973 through May of 1978 a quite structured and detailed instrument was used. Prior to and following those dates more general forms were in effect, but during the study period the report form elicited as many as 200 characteristics of the reported incident. The reports were filed with the State Department of Community Services and placed in a magnetic tape data bank. In addition to the magnetic tape file, a physical file was kept by the department with selected information about abused individuals. Included in this second file were identification numbers and dates of reports contained in the magnetic files. The dependent variable for this investigation, future abuse, was constructed by manually determining, from the physical file, which individuals had multiple entries. For those having multiple entries, the one with the earliest date was subsequently identified on the magnetic file as indicating a future abuse, thus creating a dichotomous dependent variable.

The independent variables in the investigation were constructed from observations recorded on the form. Those variables which could be constructed from items on the form and which have been reported in previous studies to have relationships distinguishing abusers and non-abusers were identified and used to investigate the research questions. Overall, four general areas were selected:

- 1) The geographical environment
- 2) Characteristics of the abuse incident
- 3) Case management by the social worker
- 4) Demographic characteristics of the parties involved

The operationalization of these conceptual areas were as follows:

Geographical Environment. This was developed by determining whether or not the county where the incident occurred was a SMSA county. If the county is part of a SMSA, the label of Metropolitan is used. If the county is not a part of a SMSA, the label of Non-Metropolitan is used.

<u>Characteristics</u> of the <u>Abuse Incident</u>. Nine.variables were developed. These included:

<u>Presence of Ongoing Stress</u>: A seven-item index reflecting the social worker's interpretation of presence of emotional, marital, work, community, new baby in home, absence of essential family member, or undefined but ongoing stress.

Variety of Different Stresses: A seven-item index reflecting judgment about stresses due to family break-up, loss of job, recent arguments, fighting, alcohol related problems, drug related problems or other undefined stress.

Financial Stresses: A three-item index inventorying the presence of problems due to lack of money, continuing debts, or unemployment.

<u>Variety of Child Induced Stresses</u>: A four-item index consisting of stresses arising from the child's crying, disobedience, hostility or other stress inducing behavior.

<u>Variety of Injuries</u>: A 16-item index reflecting the findings of injuries to the child. The identified injuries were bruises, sprains, bone fractures, internal injuries, skull injuries, brain damage, psychological injury, suffocation, burns, abrasions, cuts, dismemberment, freezing, malnutrition, sexual and other non-specified injuries.

<u>Variety of Inflicting Devices</u>: A 16-item index summing the assessment of instruments or devices used to inflict the abuse.

Reporter's Relation to Child: A three-item response representing whether the person reporting the incident was acting in a professional role (law enforcement, physician, teacher, etc.) a parent or relative, or other (stranger, neighbor, acquaintance or unidentified).

Muitiple Abuse Incident: A dichotomous variable reflecting whether more than one child was reported abused in the same investigation.

Number of Parents in Home: This variable indicated whether neither, one, or both parents were a part of the residential unit of the child when the incident occurred.

Case Management by the Social Worker. Two variables were identified and developed.

Variety of Social Services Provided: An eight-item index indicating the attempt to help the parties involved to cope with the situation. These included possibilities of casework services, guidance or counseling clinic, financial assistance and planning, public medical care, maternity, care, day care services, homemaker services, or other undefined services.

Conservativeness: A four-item index of actions taken to prevent reabuse or protect the child. These included removing the child, at least temporarily, from the home; taking the case to juvenile court; having criminal action at least referred to the district attorney; and taking action to remove other children from the home.

<u>Demographic Characteristics of the Parties Involved</u>. Characteristics of the child, the abuser, the child's mother, and the child's father were available on the form and utilized.

Demographic Characteristics of the Abused Child:

Age: The chronological years of life.

Sex: A dichotomous variable of male and female distinction.

Race: A-dichotomous variable of white and non-white distinction.

Demographic Characteristics of the Abuser:

Age: The chronological years of life.

Sex: A dichotomous variable of male and female distinction.

Race: A dichotomous variable of white and non-white distinction.

Relation to Child: A three-item scale reflecting social distance - natural parent; foster, step or adoptive parent; or other.

Abused as a Child: A three-item scale of yes, unknown and no.

Demographic Characteristics of the Mother:

Age: The chronological years of life.

Sex: A dichotomous variable of male and female distinction.

Educational Attainment: A five-item scale of the categories less than eighth grade, some high school, high school graduate, some college or vocational training, and college graduate.

Occupation: A three-point scale indicating housewife, employed and unemployed.

Demographic Characteristics of the Father. Because of the magnitude of missing data on the father, only one variable was utilized.

Age: The chronological years of life.

Summary statistics and distribution data for these variables are found in Table 1. Reliability and validity of the data are not fully ascertained. There were indications of some clerical errors in noting reabuse cases on the foriginal card file. Some ambiguity existed within the physical file in linking together the same individual and siblings and, on occasion, the same abuser. Most of these, however, were resolved with confidence 10f greater concern is the information contained on the investigation report form. While the reports were completed by professional social workers, considerable variation in the amount of information available to the social worker as well as in the professional judgement of that information is to be expected statewide. The magnitude of missing data was so large as to prohibit use of potential variables. On occasion, variables with considerable missing data were included because of the variable's salience; i.e., abuser abused as a child. Also, while filing the reports in the state Central Registry was a part of state regulation, there were indications to the researchers where this may have been delayed or circumvented, at least occasionally. In addition, there were some logical errors with the form. For example, the item dealing with possible placement of children assumed more than one child, the contingency for only child was not provided. Nevertheless, since social work is a profession where individuals do bring some active professional ingredient to the investigation, the researchers concluded the file should have scientific value in developing profiles of the abuse and reabuse phenomena.

As indicated earlier, the study population is all reports in the Central Registry files of the State of Wisconsin for nearly a five and one-half year period. During this period, from January 1973, through May 1978, some 10,666 official reports were filed. The report contained four levels of abuse differentiation:

	Variables	ę ···		Motro _o Area_	Non-Motro - Area	Pooled Sample	Population
	•	•	/	% of 312	# of 308	4 of 620	% of 4313
_	DEPENDENT VARIABLE	-			·		
	Future Abuse	•	•	- 48.7	51.3	50.0	- 7.2
	Observed Not observed		•	51.3	48.7	, 50.0	92.8
	INDEPENDENT VARIABLES			,			
	Characteristics of (•			
	Presence of Ongoin	ıg Stress O		20.5	20.8	20.6	20.3
	,	1 2		46.8 19.2	41.9 23.1	44.4 21.1	44.7 23.5
		3 or more		13.5 1.31	14.3 1.35	13.8 1.33	11.5 1.30
		\$		1.07	1.06	1.06	1.00
	Variety of Oiffere	ent Stresses		63.5	63,6	63.5	64.0
		i -		25.6 10.9	26.9 9.4	26.3 10.2	- 28.3 9.7
	•	<u>2</u> X s		0.49	0.47 0.70	0.48 0.72	0.48
	Edman-Lat Carres	_		0.73	0.70	0.72	0.75
	Financial Stresses	0		74.0	67.2	70.6	75.7
		1 2 X		22.1 38.5	26.3 6.5	24.2 5.2	20.4 5.0
		X .		0.30 0.55	0.41 0.68	0.36 0.62	0.32 ~ 0.60
	Variety of Child 1	induced Stresses					•
	•	0 1		48.4 42.0	57.5 38.3	∵·52.9 40.2	51.5 41.5
	>	2 X		9.6 . 0.61	4.2 0.47	6.9 0.54	6.9 0.56 ·
	_	S		0.66	0.58	0.62	0.63
	Variety of Injurie	es 0		4.5	5.5	5.0	. A.7
	,	, <u>1</u>		66.3 23.4	69-2 23-4	** 67.7 23.4	, 68.7 21.9
		1 2 3 X	,	5.7 1.31	1.9	3.8 * 1.27	4.6 1.28
		Š	•	0.67	0.59	063	0.68
	Variety of Inflict	ing Injuries.	o	21.8	23.7 ^	22.7	24.0
	•	1 2	,	56.1 16.7	55.5- 16.2	55.8 16.5	54.5 16.0
	1	3 or more X		5.4 1.06	4.5 1.02	5.0 1.04.	5.5 1.05
		ŝ	•	0.80	0.78	0.79	. 0.85
	Reporter Relation Professional			58.0	51.6	- 54.8	56.5
	Parent or Rela	itive .	7	18.2 23.8	26.9 21.5	22.6 22.6	24.2
	Other	-1.1		23.0	2143	22.6	19.3
	Multiple Abuse Inc	.ident .		81.4	81.5	· 81.5	81.7
	Yes	d. Usaa		18.6	18.5	18.5	18.3
	Number of Parents Neither	in none		\$.7	12.9	9.2	9.9
	One Two			49.7 44.7	36.1 51.0	43.9 47.8	44.5 45.6
	Social Worker Handli	un of Case				-	
	Variety of Social						
		0		8.7 54.8	8.1 44.2	8.4 49.5	9.3 51.3
		3		23.4 9.0	25.6 14.3	24.5 c 11.6	24.3 10.0
		ጃ		41.7 1.45	° 7.7 1.73	6.1 1.59	5. 1 1.52
	, Cananana 61	, S		0.92	1.15	1.05	1.03
	Conservativeness	. 0		. 2.3	2.0	- 2.0	0.9
		2		49.2 29.7	59.3 25.7	55.0 27.4	10.9 51.4
-	- -	0 1 2 3 4 ar more	8	16.5 2.3	10.7 - 11.2	13.2	27.5 8.8
		X • -	Ç	1.67 0.87	1.52 9.20	$\frac{1.59}{0.83}$	2.33 0.#2
•	•				•	•	

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	Áge	•	• ,			,
	3	Less than one year One to three years Three to five years	6.4 11.5 10.6	4.5 11.6 11.0	5.5 11.6 10.8	5.6 10.3 10.4
		Five to seven years Seven to nine years	14.7. 7.4	13.3 8.7 -	14.2. 8.1 ^	11.6 9.8
		Nine to cleven years Eleven to thirteen years	7.7 7.4	8.8 8.8	8.2 8.2	8.8 9.4,
		Thirteen to fifteen years Fifteen to eighteen years	18.6 14.1	14.6 17.2	16.6 15.6	14.0 20.1
	5ex	Male Male Female	45.5 54.5	43.8 56.2	44.6 55.3	42.7 57.3
	Race	- 1	. •		/	
-		White Non-white	71.1 · · · · · · · · · · · · · · · · · ·	93.5 4.3	82.3 16.0	80.6 · 17.7
		Unknown	1.3	2.2	1.7 	1.6
ļ		aphic Characteristics of Abuser	1			
	A9e	Less than eighteen	5.1	6.8	6.0	6.2 36.3
,	•	18 through 30 31 through 40 41 through 50	36.9 31.1 12:8	34.0 31:8 15.6	35.5 31.5 14.2	31.7 13.2
		51 and older Unreported or unknown	3.5	5.8 5.8	4.7 7.6	8.6
	5ex	Male	66.7	69.0	, 67.9	69.1
		Female .	33.3	31.0	32.1	30.9
	Raçe	White	72.6	89.4	81.5 ·14.8	78.8 17.4
		lion-whi te Unknown	20.1 7.3	9.4 1.3	3.7	3.8
	Relat	tion to Child *** Natural Parent	65.3	62.0	63.5	60.9
	•	Adoptive, Step or Foster Parent Other	14.2 20.4	13.6 24.0	13.9 22.6	14.2 24.9
	`Abusi	er Abused as a Child Yes	17.9	24.4	21.1	20.1
q	-	Unknown _ ' . No	73.2 8.8	63.3 7.3	70.8 8-1	70.3 19.6
	.	and the distance of the same			, .	m **
<u>ا</u> م	Jenogra Age	aphic Characteristics of Mother	•		:	٠.
,	,.3-	Less than eighteen 18 through 30	1.0 47.4	0.3 43.3	0.6 44.0	1.0 41.4
		31 through 40 41 through 50	33.3 9.3	36.0 8.4	34.7 8.9	33.8 10.1
		51 or older Unreported or unknown	1.0 10.3	2.6 9.1	1.8 9.7	1.5 12.3
	Educa	ational Attainment Eighth grade or less	6. 4	4.2	· 5.3	5.3
		Some High School High School Graduate	25.3 32.3	29.9 33.8	27.6 · 33.1 ·	24.3 24.3
		Some College or Vocational School Training College Graduate	1.6	4.2 3.2	4.0 2.4	4.0 1.5
	Occur	Unreported -	30.4 .	24.7	27.6	31.7
	00001	Housewife Employed	28.0 53.8	45.5 36.4	. 36.7 45.2	48.2 31.8
		Unexplayed Unknown	10.5 · 7.7	10.6	9.4 · · · · · · · · · · · · · · · · · · ·	10.6 9.4
٠,	laman.	ophic Characteristics of Father		•	*	
_		v .		-		
	Age '	Less than eighteen 18 through 30	0.0 19.9	0,0 22. I	0.0 21.0	.0.0 18.8
		31 through 40	23.3 10.6	30.2 19.2	26.8 14.8	26.4 17.5 3.9
		51 and olders Z Unreported or Enknown	3.5 42.6	5.8 22.7	9.4 32.7	3. 9 36 . 2
		<u> </u>				<u>, , , , , , , , , , , , , , , , , , , </u>

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-) no neglect and no abuse
- 2) neglect, but not abuse
- abuse uncertain
- 4) abuse certain
- 5) abuse legally established.

for this paper, only statuses 4 and 5 were retained for analysis. This initial filtering of the reports reduced the original population to 4,313 cases, or approximately 41 percent of the total reports. Table 2 presents trend data for the period. Annual reports more than doubled during the study period; and the percent of the reports which were case status 4 and 5 remained quite constant at about 40 percent. The number of reports, while increasing during the period, did not display a constant rate of increase, however.

Among the certain or legally established cases, 2439 (or 56.5 percent) were in metropolitan areas, and 1874 (or 43.5 percent) were in non-metropolitan areas. When standardized by the total number of children under 18 years, these reports constitute an averaged annual rate of 48.3 and 54.1 per 100,000 children in the metropolitan and non-metropolitan areas, respectively.

Table 2. Frequency of Child Abuse Reports in Miscoosin. January 1975 through May 1975.

Year	Total • Reports	Amosi Perome Tachesse	Coses	Percent of Cases Cersain 5 Tigal
1973	1,283	·	549	42.6
1974	1,622	26.4	648	40.2
1975	2.033	25.3 °	\$35	" AL-1
1976	2,697	- 3.1	. (54	40-7
1927	2,517	70.40	989	39.3
1978	1,114 •	inc.	438	39.3

Among the cases retained for analysis were 310 reports (or approximately seven percent) where reabuse would later occur and be filed. Of these, 152 were filed in metropolitan areas and 156 in non-metropolitan areas. This constitutes

an averaged annual reabuse rate of 0.30 and 0.46 per 100,000 children in metropolitan and non-metropolitan areas, respectively.

Using the criterian chosen in this investigation for reabuse, the conclusion is that it is not a highly prevalent phenomenon. Certainly, the reabuse found here is considerably less frequent than suggested by Cohn (1979). There may be several factors for the discrepancy, but three important ones should be emphasized. The first is the rigor for inclusion in this investigation (aguse certain or legally established) for both official reports. The second is the tather narrow time frame from which data were available (about five and one-half years) which prohibited following the cohort to adulthood. A third, and well known one, is that reputed cases do not reflect the entire population of abuse incidents.

Because of the imbalance between those reports where no future abuse was indicated and those where reabuse did occur (ratio of nearly 13 to 1); a random sample of the non-reabuse cases was taken. This subsample was of like size to the reabuse number. Analysis was then conducted on this reduced sample of 620, which included 312 reports from metropolitan areas and 310 reports from non-metropolitan areas.

Zero-order and multiple correlation analysis was conducted between the dependent variable of future reabuse and the independent variables. The procedures were conducted separately for the metropolitan and non-metropolitan reports as well as for the pooled sample. Table 3 presents the zero-order analysis and :

Tables 4, 5, and 6 the multiple correlation summaries.

When inspecting the statistics in Table 3 on the zero-order relationships. the immediate reaction is noting the rather low magnitude of the test statistics. Indeed, none was larger than + .18. Nevertheless, some are statistically significant and interesting patterns do emerge. For example, among the nine variables related to the abuse incident, five are statistically significant

Table3. Zero-order correlation coefficients bentden Future Abuse and Independent Variables

<u> </u>			
Yariablesi t	Metro Areas	Non-Metro Areas	Skate Total
	n = 312	° n = 308	u = 620
Characteristics of the Incident		·	
Presence of Ongoing Stress Variety of Oifferent Stresses Financial Stresses Variety of Child Induced Stresses Variety of Injuries Variety of Inflicting Devices Reporters Relation to Child Nultiple Abuse Incident	. 16:: .04 .12:: .12: .11: .16:: .04	.10 01 .02 .:04 10 .03 06	.13:+ .01 .09+ .08 .01 .10+ .05
Number of Parents in Home	.10	03	.04.
Social Norkers Handling of Case		•	•
Yariety of Social Services Provided Conservativeness	.07	.13+ -16++	. 12++ .13++
Demographic Characteristics of Abused Child Age Sex Race	06 07 07	-a 18++ .03 03	12++ .02 06
Demographic Characteristics of Abuser	` -		
Age Sex Race Relation to Child Abused as a Child	- 02 - 06 - 07 - 16** - 10	03 07 04 01 04	02 .06 06 08 07
Gemographic Characteristics of Mother			- "
Age Educational Attainment Occupation	04 15+÷ 04	- 18++ - 10 - 18++	11† 13++ -*11+
Demographic Characteristics of Father		•	
Age .	10	13+	12++

Significant at .05 level of chance occurrence

reports. Of those showing significance, three are stress variables. Stress has been a differentiating variable in previous studies distinguishing abusers and non-abusers (Serrano, et. al., 1979; Smith and Hanson, 1974; Egeland and Brunnquell, 1969; Hunter, et. al., 1978; Justice and Duncan, 1968; Lynch and Roberts, 1977). Findings of this analysis suggest it to be related to the reabuse phenomenon in metropolitan areas as well.

The abuse inclident variable significantly related to reabuse in the mulmetropolitan reports is multiple abuse. Interestingly, this is an inverse
relationship and runs counter to the findings of Corey (1975).

^{**}Significant at .Ol level of chance occurrence

Both variables on the social worker's handling of the case are related in the non-metropolitan areas and one is related for the metropolitan area reports. A weak, but significant, relationship is found with providing social services. The relationship is counter to expectations in that the more services provided, the more likely is the abuse to reoccur. A post hoc explanation for this may be that reabuse cases are highly pathological and providing services is not sufficient to counter the situation.

In the non-metropolitan analysis, four demographic variables were found to be significantly related to future reabuse. These were age of the child (younger children are more likely to be reabused), occupation of the mother (housewife role is more likely to reabuse), and age of parents (younger parents are more

Table 1. Multiple Correlation Coefficient and F-Ratio upon entering Step-wise Regression Equation. (Atropolitan Sample (n * 312).

yariable .	Multiple Correlation	4	٠	F - Ratio	. t .
	-		1	· <u>-</u>	<u> </u>
financial Stresses	. 178		•	r 10.13	
. Variety of inflicting Gevices	.236		٥	9.09	
Mother's Occupation	* .275		•	8:46	•
Conservativeness	`.307 '	6		8.01	• •
Mother's Educational Attainment	330		. •	7.50	
🚉 Abuser's Relation to Child 🔪 📉	347			. 6.95 ·	
Age of Child +	.361	•	•	` 6.52	
Multiple Abuse İncident '	.372			6.07	
Sex of Abused Child	3 . 379		•	5.61	•
Abuser Abused as a Child	384		*	5.21	• , .
Abuser's Age	. 389			4.86	•
Race of Abused Child	• .393		•	4.56	
Reporter's Relation to Child	.396			4.27	•
Variety of Injuries	. ,399			4.01	•
Father's Age	.402			3.79	
Hother's Age	.404			3.60 -	
Abuser's Sex	406		,	3.40	• •
Number of Parents in Home	407			13.06	_ ^
Presence of Ongoing Stress	408		-	~ 2.90	,
Race of Abuser	.409	•		2.77	1
Variety of Child Induced Stresses	.409	*	, ,	2.63	

Not entered were Variety of Stresses and Variety of Social Services Provided

Table 5. Hultiple Correlation Coefficient and F-Ratio upon entering Step-weam Regression Equation Non-metropolitan Sample N = 308)

Yarleble	Hultiple Correlation		F - Ratio	· . _
Mother's Age	. 181		10.59	
Conservativeness	.228		3.33	
Variety of Social Services Provided	.267	•	7.79	
Multiple Abuse Incident	. 295	. 4	7.23	٠
Variety of Injuries	.319		6.83	•
Sex of Abused Child	. 329	•	6.10	3
Age of Child	. 339		5.54	,
Mother's Educational Attainment	. 346		5.09 `	
Reporter's Relation to Child	. 352 -		4.67	
Age of Abuser	. 357		4.34	
Presence of Ongoing Stress.	. 361		4.02	_ :
Abuser's Relation to Child	. 365 '		3.78	
Number of Parents in Home	.368	-	3.55	•
Financial Stresses	.372	• -	3.36	
Abuser Abused as Child	.373		3.14	
Variety of Child Induced Stresses	.373	, ,	2.95	
Sex Of Abuser	. 374		· 2.77	
Variety of Stresses	. 375		2.62	\
Mother's Occupation	. 375		2.47	
Race of Child	. 375´		2.34	•
Variety of Inflicting Devices	.375		2.22	
Race of Abuser	•37 5		2.02	_

Not entered was age of Father

likely to reabuse). The findings with regard to age of parents is consistent with those reported by Holter and Freidman (1968), Lynch and Roberts (1977) and Lauer. et. al. (1974).

Among the metropolitan reports. Inverse relationships were found between. reabuse and two demographic variables: educational attainment of the mother and social distance of abuser. The educational relationship is consistent with findings of Hunter (1978).

In an effort to explore multivariate relationships with future abuse, multiple correlation coefficients were computed with future reabuse as the dependent variable. These results, presented in Tables 4, 5, and 6, show most of the variables when entering the stepwise regression equation made a significant, albeit somewhat small, contribution to the explanation of reabuse.

Table 6. Multiple Correlation Coefficent and F-Ratio for Pooled Sample (N = 620).

•	Yariable -	Multiple Correlation			F - Ratio	
;.	Conservativenéss	:135			14.41	
	Nother's Education	. 190			11.59	
	Age of Child	.227		_	11.11	ς.
	Presence of Ongoing Stress	.251		•	10.35	
•	Multiple Abuse Case	.268			9.50	-
	Mother's Occupation	.278 .			8.53	
	Variety of Social Services Provide	d .286	•		7.78 .	
	Abuser's Relation to Child	. 292			7.12	
	Father's Age	.296			6.52	,
	Age of Abuser	.301			6.08	
	Abuser Abused as Child	.304	193	,	5.55	
	Variety of Inflicting Devices	. 307			5.27	
	Race of Child	. 309			4.93	
1.	Reporter's Relation to Child	. 312	_		4.65	
•	Financial Stresses	.313			4.37	
	Mother's Age	.314			4.12	•
	Number of Parents in Home	.315		-	3.90	•
>	Sex of Abuser	.316			- 3.72 .	
	Variety of Injuries 🐦 .	.317			3.54	
	.Sex of Child	.318			3.21	
	Race of Abuser	. 318			3.07	
	• • • • • • • • • • • • • • • • • • • •				•	•

Not entared were Variety of Child induced Stresses and Variety of Different Stresses

Inspection of the three tables does show some different patternings. Perhaps useful to note, is that the pooled sample results in a smaller overall coefficient than does either the metropolitan or non-metropolitan coefficient.

This may in part be due to correlating error in the former instances, but the etiology here as well as in the bivariate relationships seems to suggest stress as being a more important factor associated with reabuse in metropolitan areas than in non-metropolitan areas. In the non-metropolitan areas, demographic factors seem to be more potent.

Since the multiple regression correlation coefficients do show some degree of association, the analysis was carried a step further. Utilizing the regression equation from the correlational analysis, predicted scores were calculated and plotted. The greatest differentiating dichotomy was drawn to assess efficiency of prediction. Tables 7 and 8 present these outcomes. For both settings,

Table 7. Cross Classification of Actual and Predicted Remove Hon-metropolitan sample (N > 398).

	Actual	Reabusers
Predicted Reabusers	No 3, of 150	Yes % of 158
NO .	64%	462
YES	36%	54%

 $X^2 = 10.74$, ld.f., p \leq .01

Percent correct classification = S9z (Z = 3.16)

Table 8. Cross Classification of Actual and Predicted Reabuse.

Metropolitan sample (3 = 282)

Predicted Reabusers	Actual No 1 of 150	Reabusers fes of 132
——————————————————————————————————————	60:	41%
YES	40%	59%

 χ^2 = 10.21, Muf., p \lesssim .01 Percent correct classification = 60% (Z = 4.38)

the classification is statistically significant at the .01 level as reflacted in the Chi Square and Difference of Proportion tests. However, the prediction is only minimally proficient. Furthermore, these tests are utilizing the data from which the prediction formula was developed. Validation on an independent set of cases most likely would result in even greater error in prediction.

In summary, it must be emphasized these findings were extraordinarily tenuous. There are several reasons for this in addition to the weakness of the relationships. The data set, while large, and being the population for an entire state, has inherent reliability limitations. This stems from the nature of reporting. Each county has one or more individuals investigating reported incidences. These professionals make different subjective assessments on often incomplete information on often rather complex events. Consequently, this inquiry leaves somewhat open ended both questions addressed at the outset. To the question "Is there a patterning to reabuse?", the answer would be "yes, but not very strong." To the question. "Is the patterning different between metropolitan and non-metropolitan sertings?", again, the answer is "yes, but because of the amount of unexplained variance, the answer is guarded." To the goal of forecasting, the model developed is only slightly better than chance.

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