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Recommended Citation

Jeanette Harder, Research implications in the prevention of child abuse and neglect, Families in Society (86:4) pp. 491-501. Copyright © 2005 Alliance for Children and Families. DOI: 10.1606/1044-3894.3454.

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Running Head: RESEARCH IMPLICATIONS FOR THE PREVENTION OF CHILD ABUSE AND NEGLECT

Research Implications for the Prevention of Child Abuse and Neglect

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September 8, 2004

Research Implications for the Prevention of Child Abuse and Neglect

Abstract

Child abuse and neglect is a problem of vast proportions. Research on the effectiveness of child abuse and neglect prevention programs is critical for the provision of effective and efficient services. This paper provides a critical analysis of the research methodologies on child abuse and neglect prevention programs at the secondary and tertiary levels, as represented in the empirical literature. The paper begins by outlining the levels of prevention, and by describing child abuse and neglect prevention programs, as published in the empirical literature. This paper then goes on to describe and analyze the research conducted on these programs, to identify gaps in research, and to suggest ways to improve the rigor and validity of future research.

Conclusions drawn include a call for greater quantity and quality of research on child abuse and neglect prevention programs, including the increased use of comparison groups, larger sample sizes, and a research design with follow-up measurement.

Child abuse and neglect is a problem of vast proportions and far-reaching effects. The U.S. Department of Health and Human Services estimated that more than 2.6 million reports of alleged child abuse or neglect were investigated by Child Protective Service agencies in 2002. Nationally, an estimated 896,000 children were victims of abuse and neglect in 2002; 60% of whom suffered neglect, 20% physical abuse, 10% sexual abuse, and 27% were victims of other types of maltreatment. According to HHS, 1,400 children died of abuse or neglect in 2002 (U.S. Department of Health, 2004). Acts of child abuse and neglect have devastating long- and short-term effects on children, including but not limited to brain injury, fractures, burns, and blindness. Consequences of abuse can also include low self-esteem, learning disabilities, aggressive or withdrawal behaviors, and problems with bonding and forming relationships (CAPTA, 1996; Emerging Practices, 2002; Huebner, 2002; National Exchange Club Foundation for the Prevention of Child Abuse, 2002).

The purposes of this paper are to provide a critical analysis of the research methodologies on child abuse and neglect prevention programs at the secondary and tertiary levels as represented in the empirical literature, and to make recomendations for future research. The paper begins by outlining the levels of prevention and describing child abuse and neglect prevention programs, as published in the empirical literature. This paper then goes on to describe and analyze the research conducted on these programs, to identify gaps in research, and to suggest ways to improve the rigor and validity of future research.

An exhaustive review of the empirical literature found 30 articles on child abuse and neglect prevention at the secondary and tertiary levels (see Table 1). Empirical articles included in this analysis were those on programs that targeted families with children ages 0-12 years, who were at-risk for neglect and/or physical abuse, excluding unique populations. This criteria was

used in order to capture data from as broad a base of programs as possible, and to heighten the opportunity for generalizability.

Levels of Prevention

Efforts to prevent child abuse and neglect prevention efforts can be conceptualized on a continuum from broad to specific. Many authors label the points on this continuum as primary, secondary, and tertiary prevention, with various combinations and unique applications of each (see Figure 1) (Browne, Hanks, Stratton, & Hamilton, 2002; Hoefnagels & Mudde, 2000; Willis, Holden, & Rosenberg, 1992). Primary prevention services are offered to any family, regardless of risk level. In contrast, secondary prevention services target a certain population of clients because of its perceived risk level. Prevention services for child abuse and neglect at the tertiary level are targeted at client groups who have already been identified as having maltreated their children, as defined by a substantiated case with Child Protective Services (CPS). Given the stigmatization of the abuse or neglect label, many child abuse and neglect prevention programs target clients at both the secondary and tertiary levels.

Description of Programs

Typical families participating in the child abuse and neglect prevention programs reviewed were comprised of young, single, ethnic minority parents, with low levels of education and financial resources, and very young children (see Table 2). Although child abuse and neglect is most often manifested in the entire family, many preventive programs direct services at the mother only. Most families were referred to treatment through hospitals or medical clinics (including WIC). Most of the 30 programs delivered services in the home to some extent, with 20 of them serving clients exclusively in the home. Many of the programs included in this cohort used nurses as the direct service providers to clients. Paraprofessionals were used as the

single conduit of services in one-fourth of the programs. One-third of programs offered services for 2 years, followed by those programs that offered services for 1 year (17%). Most home-visiting programs intended to provide two to four visits each month. Most programs used their own individualized curriculum. By far, the largest percentage (60%) of programs was offered in an urban or inner-city setting. (See Table 3.)

Review and Critique of Methodologies

Discussed in this section are the methodologies employed in these empirical articles, including theory, research design, presence of a comparison/control group, sampling design, sample size, use of measurement tools, inclusion of a follow-up measurement, and level of statistical analyses.

Over half (53%, n=16) of the studies did not state what theory they ascribed to. Of those studies that did state a theory, 57% (n=8) were based on the ecological theory, including five on the Nurse Home Visitation Program (NHVP). Three (21%) were based on the ecobehavioral theory (very similar to ecological theory). The remaining studies stated that they were based on the cognitive (n=1), cognitive-behavioral (n=1), or Adlerian (n=1) theories. (See Table 4.)

All studies in this review are evaluations of programs employing an intervention. The largest percentage of studies (47%, n=14) were classic experiments (with random assignment to an intervention or control group), including six from the NHVP. The remaining were quasi-experimental (23%, n=7), including two of the NHVP studies that studied subgroups of the original randomly sampled groups, or pre-experimental (23%, n=7). Nearly three-fourths (n=22, 73%) of the studies utilized a comparison or control group. (See Table 4.)

The sample sizes varied considerably. The overall median for the total sample size (including both the treatment and the comparison/control groups) was 212 family units. By far,

the studies at the secondary level of prevention had the largest sample sizes, ranging from 56 to 4,410 families. Sample sizes at all levels of prevention were skewed significantly by a small number (n=7, 23%) of studies with very high sample sizes (>1,000) (four from the NHVP), thus the median is a more accurate report of sample size. Less than half of the studies (43%, n=13) used a probability sampling method, six of which were studies from the Nurses Home Visitation Program. The remaining 53% (n=16) of the studies employed a nonprobability sampling frame, and one study examined a population. (See Tables 4 and 5.)

A wide assortment (n=40) of measurement tools were used in these studies. The most common standardized, published tools used were the Home Observation for the Measurement of the Environment (HOME) (n=11), the Bayley Scales of Infant Development (n=5), Parenting Stress Index (PSI) (n=5), and the Beck Depression Inventory (BDI) (n=5). In addition, many studies used intake questionnaires, interviews, health records, CPS records, and case records.

Only 13 (43%) of the 30 studies indicated that they conducted a follow-up study, varying from 3 months to more than 5 years. Seven (23%) of the studies employed a longitudinal design (equal to or more than a 2-year follow-up), including four studies which were on the NHVP. The remaining studies used a short-term (less than 2-year) follow-up. Of those conducting a follow-up, they varied between 3 to 6 months (n=4), 1 to 2 years (n=3), 2 to 4 years (n=4), and 13 years following the termination of treatment (n=2). Over half of the studies (n=17, 57%) were cross-sectional with no follow-up. (See Table 3.)

A final characteristic of this cohort of 30 empirical studies that was examined was the level of statistical analyses employed. Four out of the 30 (13%) used descriptive statistics only (mean, median, mode, standard deviation, range, variance), including all three articles using the ecobehavioral theory by Lutzker. Seven (23%) of the articles used descriptive and bivariate

statistical analyses only (including t-tests and Chi-squares). The greatest percentage (63%, n=16) used descriptives, bivariate and multivariate statistical analyses (including ANOVAs, ANCOVAs, MANOVAs, multiple regressions, and logistic regressions) (See Table 4.)

In summary, most evaluations and their corresponding articles embrace the ecological theory, employ a control or comparison group, have a relatively small sample size, use a wide variety of measurements, do not use a follow-up design, and have a moderate level of statistical analyses.

Implications for Future Research

The need for increased quantity and quality of research and evaluation in the area of the prevention of child abuse and neglect is immense. A number of large program models have minimal or no evaluations published in the professional literature, including Healthy Start, Healthy Families, the National Exchange Club Foundation for the Prevention of Child Abuse, and Parents Anonymous. Although there are child abuse and neglect prevention programs in nearly every city and country around the United States, only 30 empirical articles could be located in the professional literature (within the broad parameters outlined earlier in this paper). This small body of research representing such a large field of programs calls to question the representativeness of the sample. Without more extensive research, it cannot be known if the evaluations published in the professional literature represent certain segments of the field and not others. Although evaluations are frequently published informally in independent reports, websites, and newsletters, they cannot be thoroughly examined and lessons learned unless also published in the professional literature.

Research on effective programs to prevent child abuse and neglect could undoubtedly be strengthened by the more frequent use of the classical experimental research design and larger

samples. The random assignment of study participants to intervention and control groups greatly increases the liklihood that any resulting change can truly and reliably be attributed to the intervention. However, even with random assignment to groups, a long list of other internal validity issues remain. The marriage of rigorous research design with effective and ethical practice is certainly a tricky one. For one, the ethics of denying or even wait-listing an at-risk family for prevention services in order to form a control group is often prohibitive. In addition, complex issues such as treatment integrity and participant attrition often cloud the picture. Practitioners and researchers must work together to find creative solutions that satisfy competing goals.

Another noticeable gap in the current research on child abuse and neglect prevention is the lack of follow-up in the research design. It may be that program effects are short-lived, or that they are incubated until a future time or event. A follow-up measurement point(s) after the conclusion of program provision is important in determining whether or not the program is effective in meeting its goals. While many programs may find it difficult to locate clients following the termination of services, at the very least, the examination of child protective data can determine abuse recidivism.

Many possible barriers exist to improving the research and knowledge on child abuse and prevention, not the least of which is the availability of funds for evaluation activities. Thorough and comprehensive evaluations do not come without cost. In addition, programs charged with the goal of preventing child abuse and neglect struggle with locating valid and reliable measurement tools. They seek tools that match their unique sample and program goals, and ones which reflect both subtle and not-so-subtle program effects. Many programs lack the most basic technology tools required to gather data on clients and service provision. In addition, program

Research Implications for the Prevention of Child Abuse and Neglect Page 9 administrators and front-line workers may be resistant to evaluatory activities out of fear or lack of knowledge.

Within the current literature, so many questions remain without clear answers. For example: Which is more effective: home- or center-based services? Both loci present unique advantages and disadvantages. Home visits hold great promise in the prevention of child abuse and neglect, particularly in the areas of client engagement and opportunities for modeling appropriate behavior in a familiar and relevant context. At the same time, the home visitation model has come under fire, and is showing equivocal results (Duggan, 1999; First Reports, 2003; St. Pierre & Layzer, 1999; Research, 2004). A home visitation program can also be very expensive in terms of staff time and number of families served because of travel and the one-onone delivery of services. In addition, a critical issue for most families at-risk for child abuse and neglect is social support. While a home visitor may provide a critical link to the community, this relationship is usually time-limited and does not necessarily provide the family with the social supports needed to function independent of professional assistance. Further research can seek to determine if perhaps different types of families respond best to different loci of service. In addition, it may be that risk factors for divergent types of child abuse and neglect – i.e. physical abuse, sexual abuse, neglect – are best reduced through different types of services. Further research is needed to explore these important questions in a more in-depth manner.

A second critical question asks whether the education, profession, or paid status of the person delivering services makes a difference in engaging families or achieving positive outcomes. Are nurses truly the most effective in direct delivery of services, as argued by the professionals designing and implementing the Nurse Home Visitation Program (Olds, Robinson, O'Brien, Luckey, Pettitt, Henderson, Jr., et al., 2002)? Or, are positive outcomes for programs

staffed with nurses skewed by a more narrow and concrete focus on health and safety issues? Could it be that nurses are more effective than paraprofessionals because they are more educated? Or, is it because nurses are paid and this prompts less turnover? While a large number of articles state that their programs use paraprofessionals, they generally do not provide data on the age, race/ethnicity, or education of the paraprofessional, nor do they always make clear distinctions as to whether they are volunteers or whether they are paid. Again, more research is needed to answer these critical questions.

While it is understood that issues such as substance abuse, domestic violence, unemployment, and lack of safe housing and quality childcare contribute heavily to increasing a family's risk for child abuse and neglect, these are not variables being addressed in current research on the prevention of child maltreatment.

The prevention of child abuse and neglect is an important and demanding proposition. Research on this critical issue is fundamental to the provision of effective and efficient services to at-risk families. Without the evaluation of programs and the publishing of findings, the field of child abuse and neglect prevention cannot move ahead. The quality of research in this very important field must continue to improve, especially through the increased use of comparison groups, larger sample sizes, and research designs that include follow-up measurement.

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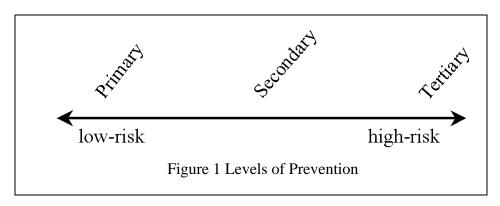


Table 1 Articles Included in Empirical Review

Bigelow & Lutzker, 2000

Black, Dubowitz, Hutcheson, Berenson-Howard, & Starr, Jr., 1995

Bugental, Ellerson, Lin, Rainey, Kokotovic, & O'Hara, 2002

Cerny & Inouye, 2001

Cole, Kitzman, Olds, & Sidora, 1998

Cowen, 2001

Danoff, Kemper, & Sherry, 1994

Duggan, et al, 1999

Dumka, Garza, Roosa, & Stoerzinger, 1997

Fraser, Armstrong, Morris, & Dadds, 2000

Frost, Johnson, Stein, & Wallis, 2000

Gershater-Molko, Lutzker, & Wesch, 2002

Huebner, 2002

Hutcheson, et al, 1997

Huxley & Warner, 1993

Iwaniec, 1997

Korfmacher, Kitzman, & Olds, 1998

Korfmacher, O'Brien, Hiatt, & Olds, 1999

Lutzker, Bigelow, Doctor, & Kessler, 1998

Marcenko, Spence, & Samost, 1996

Olds & Korfmacher, 1998

Olds, Henderson, & Kitzman, 1994

Olds, Henderson, Jr., Kitzman, Eckenrode, Cole, & Tatelbaum, 1998

Olds, Henderson, Jr., Kitzman, Eckenrode, Cole, & Tatelbaum, 1999

Olds, Henderson, Kitzman, & Cole, 1995

Owen, Tresch, & Mulvihill, 1994

St. Pierre & Layzer, 1999

Wagner & Clayton, 1999

Whipple, 1999

Whipple & Wilson, 1996

Table 2 Description of Samples

Authors	Pub. Date	Age of Child(ren) (at intake)	Family Income	Race	Parent's Age (at intake)	Education	Marital Status
Digalow & Lutzkar	2000	0.5vo	Low	5 White 2 Hispania	20vo	Most graduated HC	29% married, 71%
Bigelow & Lutzker Black, Dubowitz, Hutcheson,	2000	0-5yo	Low	5 White, 2 Hispanic	29yo	Most graduated HS	single
Berenson-Howard, & Starr,	1995	0-2yo	Low	90% AA	25yo	11 years	86% single
Bugental, Ellerson, Lin, Rainey,		3rd trimester-					
Kokotovic, & O'Hara	2002	12mo	Low	97% Hispanic	26yo	7.8 years	48% Single
				65% White, 21%			
Cerny & Inouye	2001	newborn	Low	AA	23yo	Unk	73% married
		3rd trimester-			65% under age		Memphis: 97%
Cole, Kitzman, Olds, & Sidora	1998	2yo	Low	92% AA	18	Unk	unmarried
			Low to	96% White, 2% AA,		23% < HS, 32%	
Cowen	2001	0-5yo	middle	1% Hispanic	Unk	HS, 46% > HS	53% married
							72% never married,
				41% White, 38%	29% under age	40% had not	14% married, 14%
Danoff, Kemper, & Sherry	1994	0-12 months	Low	AA	20	completed HS	separated
				28% Multiracial, 21% Hawaiian, 18% Filipino,		66% of mothers were HS graduates,	
Dugger et al	1000	0.5	Low	13% Pacific Islander,	24		240/ manufad
Duggan, et al	1999	0-5yo	Low	11% Caucasian	24yo	and 79% of fathers	24% married
Dumka, Garza, Roosa, &	1007	4.1 1	T	78% Hispanic, 15%	TT 1	TT 1	58% married or
Stoerzinger	1997	4th grade	Low	AA; 9% other	Unk	Unk	cohabiting
			_	77% born in	7% 15-17yo,	20% < 7 years,	40
Fraser, Armstrong, Morris, &	2000		Low to	Australia, 23% born	32% 18-24yo,	38% < 10 years,	40% single parents,
Dadds	2000	newborn	moderate	overseas	62% 25-41yo	41% 12 years+	41% married
			_				20% couples, 54%
Frost, Johnson, Stein, & Wallis	2000	0-5yo	Low	Unk	Unk	Unk	single parents
Gershater-Molko, Lutzker, &							
Wesch	2002	0-5yo	Unk	Unk	Unk	Unk	Unk
				35% White, 33%			11% married, 82%
Huebner	2002	0-3yo	Unk	AA	28yo	11-12 years	sees co-parent
Hutcheson, et al	1997	4yo	Low	90% AA	25yo	10.8 years	12% married
		3rd trimester-					
Huxley & Warner	1993	Зуо	Unk	Unk	20yo	Unk	Mostly single
			Low to	85% White, 15%			30% single, 50%
Iwaniec	1997	Unk	Moderate	AA	26yo	Unk	"intact", 20% step

Table 2 Description of Samples (cont'd)

	Pub.	Age of Child(ren) (at	Family		Parent's Age (at		
Authors	Date	intake)	Income	Race	intake)	Education	Marital Status
Korfmacher, Kitzman, & Olds*	1998	3rd trim-2yo	Low	92% AA	65% < age 18	Unk	97% unmarried
Korfmacher, O'Brien, Hiatt, &		3rd trimester-		45% Hispanic, 34%			
Olds*	1999	2yo	Low	White, 16% AA	Unk	Unk	Unk
Lutzker, Bigelow, Doctor, &				64% Hispanic, 28%			
Kessler	1998	0-5yo	Unk	White, 7% AA	28yo	Unk	Unk
Marcenko, Spence, & Samost	1996	1st trim-1yo	Low	94% AA	23yo	10.5 years	88% single
		3rd trimester-		Elmira: 89% White;	Memphis: 65%		Memphis: 97%
Olds & Korfmacher*	1998	2yo	Low	Memphis: 92% AA	< age 18	Unk	unmarried
Olds, Henderson, & Kitzman*	1994	2-4yo	Low	100% White	Unk		
Olds, Henderson, Jr., Kitzman,		3rd trimester-		Elmira: 89% White;	Memphis: 65%		Memphis: 97%
Eckenrode, Cole & Tatelbaum*	1998	2yo	Low	Memphis: 92% AA	< age 18	Unk	unmarried
Olds, Henderson, Jr., Kitzman,		3rd trimester-		Elmira: 89% White;	Memphis: 65%		Memphis: 97%
Eckenrode, Cole & Tatelbaum*	1999	2yo	Low	Memphis: 92% AA	< age 18	Unk	unmarried
Olds, Henderson, Kitzman, &		3rd trimester-		Elmira: 89% White;	Memphis: 65%		Memphis: 97%
Cole*	1995	2yo	Low	Memphis: 92% AA	< age 18	Unk	unmarried
				43% AA, 26%			
		Unborn to		Hispanic, 26%		51% had not	
St. Pierre & Layzer	1999	1yo	Low	White	35% < age 18	graduated from HS	39% couples
				64% Hispanic, 28%			
Taban & Lutzker	2001	0-5yo	Unk	White, 7% AA	27yo	Unk	Unk
				Latina: 84%			
				Hispanic, 17%		Latina: 41% had	
				White		completed HS;	Latina: 57%
			_	<u>Teen</u> : 55%		Teen: 70%	married, 11%
W 0 CI	1000	0.6	Low to	Hispanic, 21% AA,	Latina: 25yo	completed or	single. Teen: 12%
Wagner & Clayton	1999	0-6yo	moderate	22% White	Teen: 16yo	currently in HS	married, 1% single
Whipple	1999	Varied	Unk	Unk	Unk	Unk	Unk
						12% had HS or	
			Lowets	190/ White 250/		less, 44% had some	670/ acumlas 220/
Whimple % Wilson	1006	1 0200	Low to	48% White, 35%	24	college, 45% had	67% couples, 33%
Whipple & Wilson	1996	1-9yo	moderate	AA, 17% other	34yo	college degree	single

Table 3 Description of Programs

	Pub.		Home- or		Intensity of Program	
Authors	Date	Level of Prevention	Ctr-Based	Service Provider	(planned)	Setting
D'1. 0 I . 1	2000	TD	17 1 1	Nurses, caseworkers,	1511	TT.d
Bigelow & Lutzker	2000	Tertiary	Home-based	and GRAs.	15 weekly sessions	Urban
Died Die William			C 1	Para-professionals,		
Black, Dubowitz, Hutcheson,	1005	Tr	Center- and	supervised by	1	T.T1
Berenson-Howard, & Starr	1995	Tertiary	home-based	community health nurse	1 visit/week for 1 year	Urban
D (1FII I' D'				Paraprofessionals		
Bugental, Ellerson, Lin, Rainey,	2002	C 1	TT 1 1	supervised by a social	20.1. /1	T.T1
Kokotovic, & O'Hara	2002	Secondary	Home-based	worker	20 hv/1 year	Urban
C 0.1	2001	G 1	TT 1 1	Community health	0 4 /1	3.4:1:4 1
Cerny & Inouye	2001	Secondary	Home-based	nurse	2x month/1 year	Military base
	1000	G 1	** 1 1	D 1 137	1-4 visits/month for 2	T T 1
Cole, Kitzman, Olds, & Sidora*	1998	Secondary	Home-based	Registered Nurses	years	Urban
C	2001	m v	Center-based	TT 1	15 weekly sessions, or	D 1
Cowen	2001	Tertiary	primarily	Unk	45 visits	Rural
D 00 17 0 01	1001	G 1		Nurses, social worker,		·
Danoff, Kemper, & Sherry	1994	Secondary	Center-based	childcare personnel	9 weekly classes	Inner-city
_		~ .			1-4 hv/month for 3-5	
Duggan, et al	1999	Secondary	Home-based	Paraprofessionals	years	Unk
Dumka, Garza, Roosa, &		~ .	Center-based			
Stoerzinger	1997	Secondary	primarily	Paraprofessionals	8 weekly sessions	Urban/inner-city
				Pediatrician,		
				community health		
Fraser, Armstrong, Morris, &				nurses, social workers,	1-4 visits/month for 1	
Dadds	2000	Secondary	Home-based	and parent aides	year	Urban
Frost, Johnson, Stein, & Wallis	2000	Secondary	Home-based	Paraprofessionals	3 years	Unk
Gershater-Molko, Lutzker, &						
Wesch	2002	Tertiary	Home-based	Unk	24 weeks	Unk
				Nurses (w/ master's		
Huebner	2002	Secondary/Tertiary	Center-based	degrees)	8 weekly sessions	Inner-city
Hutcheson, et al	1997	Tertiary	N/A	N/A	N/A	Urban
				Public health nurses, mental health		
				professionals, a		
				psychiatrist,		
Huxley & Warner	1993	Secondary/Tertiary	Home-based	paraprofessionals	"Flexible", 3 years	Urban

Table 3 Description of Programs (cont'd)

	Pub.		Home- or		Intensity of Program	a vi
Authors	Date	Level of Prevention	Ctr-Based	Service Provider	(planned)	Setting
Tomaria	1007	Т	Home-based	Social work and	10 or 20 weekly	I I1.
Iwaniec Vitaria 8	1997	Tertiary	primarily	psychology students	sessions	Unk
Korfmacher, Kitzman, &	1000	0 1	TT 1 1	D : A IN	1-4 visits/month for 2	TT 1
Olds*	1998	Secondary	Home-based	Registered Nurses	years	Urban
Korfmacher, O'Brien, Hiatt, &	1000	C 1	TT 1 1	Nurses or	W 11 1 C 2	TT 1
Olds*	1999	Secondary	Home-based	paraprofessionals	Weekly hv for 2 years	Urban
Lutzker, Bigelow, Doctor, &	1000	C 1 /T	TT 1 1	T.T1	TT.1	TT.d
Kessler	1998	Secondary/Tertiary	Home-based	Unk	Unk	Urban
	1005		**	Peer home visitor,	2-4 visits/month for 2	** 1
Marcenko, Spence, & Samost	1996	Tertiary	Home-based	social worker, nurse	years	Urban
					1-4 visits/month for 2	Elmira: Semi-rural;
Olds & Korfmacher*	1998	Secondary	Home-based	Registered Nurses	years	Memphis: Urban
					1-4 visits/month for 2	
Olds, Henderson, & Kitzman*	1994	Secondary	Home-based	Nurses	years	Semi-rural
Olds, Henderson, Jr.,						
Kitzman, Eckenrode, Cole, &						Elmira: Semi-rural;
Tatelbaum*	1998	Secondary	Home-based	Registered Nurses	Unk	Memphis: Urban
Olds, Henderson, Jr.,						
Kitzman, Eckenrode, Cole, &					1-4 visits/month for 2	Elmira: Semi-rural;
Tatelbaum*	1999	Secondary	Home-based	Nurses	years	Memphis: Urban
Olds, Henderson, Kitzman, &					1-4 visits/month for 2	Elmira: Semi-rural;
Cole*	1995	Secondary	Home-based	Registered Nurses	years	Memphis: Urban
				Paraprofessionals and		
			Home-based	staff, supervised by	2-4 visits/month for 5	Inner-city, urban,
St. Pierre & Layzer	1999	Secondary	primarily	professionals	years.	and rural
				Mental health		
Taban & Lutzker	2001	Secondary/Tertiary	Home-based	professional	15 weekly sessions	Urban
					1 visit/month for 2-3	
Wagner & Clayton	1999	Secondary	Home-based	Paraprofessionals	years	Urban
Whipple	1999	Secondary	Center-based	Staff	Flexible	Unk
				Childcare specialists,		
				paraprofessionals,		
Whipple & Wilson	1996	Secondary/Tertiary	Center-based	MSWs	Flexible	Urban

Table 4 Description of Research Methodologies

	Pub.			Total # in	Follow-Up (after end of	
Authors	Date	Stated Theory	Study Type	Sample	tx)	Statistical Analyses Used
		· ·	Pre-experimental/	*	,	
Bigelow & Lutzker	2000	Ecobehavioral	SSD	7	6 months	Descriptives
Black, Dubowitz, Hutcheson,						
Berenson-Howard, & Starr	1995	Ecological	Experimental	130	6 months	Descriptives, ANCOVAs, MANCOVAs
Bugental, Ellerson, Lin,						Descriptives, Chi-squares, correlation,
Rainey, Kokotovic, & O'Hara	2002	Cognitive	Experimental	96	None	ANOVAs, MANCOVAs, regression analysis
			Pre-experimental/			Descriptives, independent and paired <i>t</i> -tests,
Cerny & Inouye	2001	Unk	Correlational	142	4 months	ANOVAs
		Ecological,				
		self-efficacy,				
Cole, Kitzman, Olds, & Sidora	1998	attachment	Experimental	1139	None	Descriptives, ANCOVAs
Cowen	2001	Unk	Pre-experimental	154	None	Descriptives, t-tests
			Pre-experimental			
Danoff, Kemper, & Sherry	1994	Unk	(retrospective)	172	None	Descriptives, t-tests, logistic regression
Duggan, et al	1999	Unk	Experimental	684	None	Descriptives, t-tests
Dumka, Garza, Roosa, &						
Stoerzinger	1997	Unk	Pre-experimental	142	None	Descriptives, Chi-squares
Fraser, Armstrong, Morris, &			Experimental,		12 and 18	Descriptives, ANOVAs, MANOVA, Chi-
Dadds	2000	Unk	longitudinal	181	months	squares, t-tests
Frost, Johnson, Stein, & Wallis	2000	Unk	Pre-experimental	492	None	Descriptives
Gershater-Molko, Lutzker, &			Quasi-exp,			Survival analysis, Wilcoxon (Gehan) statistic,
Wesch	2002	Unk	longitudinal	82	up to 2 years	repeated measures analysis
		STEP is	Quasi-			Descriptives, Chi-square, independent and
Huebner	2002	Adlerian	experimental	199	none	paired <i>t</i> -tests, hierarchical regression analysis
					This is 4-year	
Hutcheson, et al	1997	Ecological	Longitudinal	72	follow-up	Descriptives, multiple regression analyses
			Quasi-			
Huxley & Warner	1993	Unk	experimental	40	13-16 months	Descriptives, <i>t</i> -tests, Chi-squares
		Behavioral,	Quasi-			
Iwaniec	1997	cognitive	experimental	20	2 years	Descriptives, Chi-squares, ANOVAs
		Ecological,				
Korfmacher, Kitzman, &		self-efficacy,				Descriptives, correlation, multiple regression
Olds*	1998	attachment	Experimental	1139	None	analyses

Table 4 Description of Research Methodologies (cont'd)

					Follow-Up	
	Pub.			Total # in	(after end of	
Authors	Date	Stated Theory	Study Type	Sample	tx)	Statistical Analyses Used
		Ecological,				
Korfmacher, O'Brien, Hiatt,		self-efficacy,				
& Olds*	1999	attachment	Experimental	480	None	Descriptives, ANCOVAs, logistic regression
				116		
Lutzker, Bigelow, Doctor, &				(case		
Kessler	1998	Ecobehavioral	Case studies/SSD	study-4)	None	Descriptives
Marcenko, Spence, & Samost	1996	Unk	Experimental	225	None	Descriptives, Chi-squares, <i>t</i> -tests, ANOVAs
				Elmira:		
		Ecological,		n=400		
		self-efficacy,		Memphis:		
Olds & Korfmacher*	1998	attachment	Experimental	n=1139	None	Descriptives, multiple regression
Olds, Henderson, &						Descriptives, MANOVAs, MANCOVAs,
Kitzman*	1994	Unk	Experimental	324	None	logistic regression, multiple regression
				<u>Elmira:</u>		
Olds, Henderson, Jr.,		Ecological,		n=400		
Kitzman, Eckenrode, Cole, &		self-efficacy,		Memphis:	Elmira: child	
Tatelbaum*	1998	attachment	Experimental	n=1139	15yo	Descriptives, <i>t</i> -tests
				Elmira:		
Olds, Henderson, Jr.,		Ecological,		n=400		
Kitzman, Eckenrode, Cole, &		self-efficacy,		Memphis:	Elmira: child	
Tatelbaum*	1999	attachment	Experimental	n=1139	15yo	Descriptives, <i>t</i> -tests
Olds, Henderson, Kitzman, &						Descriptives, ANCOVAs, binomial logistic-
Cole*	1995	Unk	Experimental	56	None	linear
St. Pierre & Layzer	1999	Ecological	Experimental	4410	None	Descriptives, t-tests
Taban & Lutzker	2001	Ecobehavioral	Pre-experimental	45	None	Descriptives
				<u>Latino</u> :		
				n=497		
				Teen:		
Wagner & Clayton	1999	Unk	Experimental	n=704	None	Descriptives, multivariate analyses
Whipple	1999	Unk	Pre-experimental	116	None	Descriptives, paired <i>t</i> -tests, ANOVAs
			Quasi-			
Whipple & Wilson	1996	Unk	experimental	34	3 months	Descriptives, paired <i>t</i> -tests, ANOVAs

Table 5 Sample Size, by Level of Prevention

		# of studies with comp/	Expe	tment / rimental roup	Contro	ol Group	Total Sample Size	
# of studio		control group	Mean	Median	Mean	Median	Mean	Median
Secondary	18	14 (78%)	503	416	533	344	1036	912
Tertiary	7	5 (71%)	55	41	51	41	106	82
Secondary/Tertiary	8	3 (38%)	58	20	33	20	91	40
OVERALL	30	22 (73%)	341	133	355	96	696	212

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