# Trends in Child Protection and Out-of-Home Care



WHAT'S KNOWN ON THIS SUBJECT: Over the past decade, child welfare has focused on permanency for children through policy changes intended to reduce 00H placements. Yet little is known about recent trends in child maltreatment or children in 00H care.



**WHAT THIS STUDY ADDS:** Despite increased maltreatment investigations from 2000 through 2010, the population of children in 00H placements declined, while experiencing greater prior trauma and current emotional disturbance. These changes may have resulted in a smaller but more complex 00H population.

# abstract



**BACKGROUND:** Over the past decades, increased knowledge about childhood abuse and trauma have prompted changes in child welfare policy, and practice that may have affected the out-of-home (00H) care population. However, little is known about recent national trends in child maltreatment, 00H placement, or characteristics of children in 00H care. The objective of this study was to examine trends in child maltreatment and characteristics of children in 00H care.

**METHODS:** We analyzed 2 federal administrative databases to identify and characterize US children who were maltreated (National Child Abuse and Neglect Data System) or in 00H care (Adoption and Foster Care Analysis and Reporting System). We assessed trends between 2000 and 2010.

**RESULTS:** The number of suspected maltreatment cases increased 17% from 2000 to 2010, yet the number of substantiated cases decreased 7% and the number of children in 00H care decreased 25%. Despite the decrease in 00H placements, we found a 19% increase in the number of children who entered 00H care because of maltreatment (vs other causes), a 36% increase in the number of children with multiple (vs single) types of maltreatment, and a 60% increase in the number of children in 00H care identified as emotionally disturbed.

**CONCLUSIONS:** From 2000 to 2010, fewer suspected cases of maltreatment were substantiated, despite increased investigations, and fewer maltreated children were placed in 00H care. These changes may have led to a smaller but more complex 00H care population with substantial previous trauma and emotional problems. *Pediatrics* 2013;132:712–719

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#### **KEY WORDS**

foster care, mental health, maltreatment, child welfare, children

#### **ABBREVIATIONS**

AFCARS—Adoption and Foster Care Analysis and Reporting System

Cl-confidence interval

IRR-incident rate ratio

NCANDS—National Child Abuse and Neglect Data System 00H—out of home

Dr Conn conceptualized and designed the study, coordinated the data approvals and maintenance, and drafted the initial manuscript; Dr M. Szilagyi participated in the study conceptualization and design and critically reviewed the manuscript; Dr Franke participated in the study design and reviewed and revised the manuscript; Ms Albertin participated in the study design and reviewed and revised the manuscript; Mr Blumkin carried out the statistical analysis and reviewed and revised the manuscript; Dr P Szilagyi conceptualized the study, participated in the study design, and critically reviewed the manuscript; and all authors approved the final manuscript as submitted

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The last decade of the twentieth century saw an unprecedented increase in the daily census of children in out-of-home (00H) placements, from ~400 000 at the end of the fiscal year 1990 to ~568 000 in 1999.¹ These numbers have since decreased. Societal factors, such as the crack/cocaine epidemic and reduced benefits to needy families through welfare reform, led to the initial rise,² and a number of forces, including legislation affecting child welfare, contributed to the subsequent decline.

Simultaneously, child development research enhanced our understanding of the short- and long-term impacts of child maltreatment,3-5 and studies confirmed the powerful positive influence of caregiver attachment and childhood security on physiologic and psychological development.6-8 This expansion in knowledge, together with the fiscal pressures posed by the growing 00H care population, resulted in an increased focus on the health, safety, and well-being of the 00H care population. Federal Legislation enacted in 1997 (ASFA, P.L. 105-89) required states to reduce children's time in 00H care by expediting reunification with birth parents or facilitating adoption when reunification was not safe or possible. Child welfare also increased formal placements with kinship caregivers in lieu of more traditional nonrelative foster care and began to restructure the investigative process with the goal of enhancing family supports by providing services that may prevent placement.9 Thus, both expanding knowledge and financial pressures may have contributed to major changes in the 00H care population.

Despite the advances in knowledge and important new policies and systems changes, there has been limited analysis of national trends in child maltreatment, 00H placements, and characteristics of the 00H care population since 2000. We hypothesized that the policies

intended to reduce the OOH population may have prevented 00H placements, particularly among lower-risk families, resulting in a smaller population of children in 00H care yet one with more complex needs. 10 We reviewed existing national child welfare data for an 11year period (2000–2010) to evaluate (1) the prevalence and trends in maltreatment and 00H care, (2) demographic and socioenvironmental characteristics of children in OOH care and changes in these factors since 2000. and (3) the severity of needs of the 00H care population by studying the number of types of maltreatment before placement and the proportion of children in OOH care with emotional disturbance.

## **METHODS**

The University of Rochester Institutional Review Board approved this study for exempt status.

# **Study Design**

We analyzed 2 national-level data sets to derive the number and status of suspected child maltreatment cases and the number and characteristics of 00H care placements.

### **Data Sources**

The National Child Abuse and Neglect Data System (NCANDS) data set contains state-specific information, grouped annually by fiscal year, on all reports of child maltreatment in each state and 2 territories, Washington, DC, and Puerto Rico. To evaluate trends in child maltreatment, we analyzed annual releases of NCANDS data from the Administration on Children, Youth and Families for 2000 and 2010.11 We used these data to evaluate trends and case outcomes. Adoption and Foster Care Analysis and Reporting System (AFCARS) contains semiannual data, compiled and grouped by fiscal year, that all states and territories are federally mandated to submit on every child in 00H care. We examined AFCARS data for children who were in 00H care on or before September 30 for fiscal years 2000 through 2010 and evaluated trends, severity of maltreatment, and emotional problems among children in 00H care.

# **Measures**

We analyzed child maltreatment reports from NCANDS data to derive rates of maltreatment for children from birth to 18 years of age. For years 2000 through 2010, we examined rates of suspected maltreatment (referred and deemed eligible for investigation). For suspected maltreatment that was investigated, we examined 3 available outcomes: (1) substantiated maltreatment, (2) indicated maltreatment (inadequate evidence to support suspicions), and (3) unsubstantiated maltreatment (little or no evidence of maltreatment). We also examined cases of suspected maltreatment that used an alternative response to investigation (voluntary agreement to child protective services, often with no victim indicated). Finally, we examined the number of children who remained in-home with services (preventive or post-child welfare response), and the number of those children with postresponse services who were categorized as maltreated (substantiated abuse) or nonvictims (unsubstantiated abuse or alternative response).

Prevalence estimates for children in 00H care are available in the AFCARS data set. We evaluated 3 variables:

- Demographic characteristics: age 0 to 21 (several states extend foster care beyond 18 years), race/ethnicity (black, white, Hispanic, biracial, other), gender.
- Placement characteristics: placement type (foster care, formal kinship care, institution, group home, preadoptive home, independent living), number of placement changes

(within the most recent placement episode), placement duration (from the most recent placement date until discharge date), and placement outcome/exit reason (guardianship, adoption, reunification, relative care, emancipation, agency change, runaway, child death). Consistent with previous research, we refer to the first 4 outcomes as "positive exits" because these are desirable permanency outcomes in child welfare.

3. 00H case characteristics: Maltreatment before placement (vs "other" reasons including parental death or incarceration, child disability, etc); multiple maltreatment number of different maltreatment types before placement, such as physical and sexual abuse); emotional disturbance (child has a clinical diagnosis made by a qualified professional). We considered multiple maltreatment as a proxy for the burden of childhood trauma.

### **Analysis**

We used descriptive statistics to report the prevalence and patterns of maltreatment, 00H placements, and demographic and socioenvironmental factors for children in OOH care. We used an incident rate ratio (IRR) to examine the relative change in annual and cross-decade trends in data. Analysis using IRR with these data requires state-level comparison; subcategories for which responses are not recorded from every state each year show the percent relative change for the entire population but not the IRR. Given the large sample size, P values should be interpreted with caution.

# **RESULTS**

# The Prevalence and Trends in Maltreatment and 00H Care Between 2000 and 2010

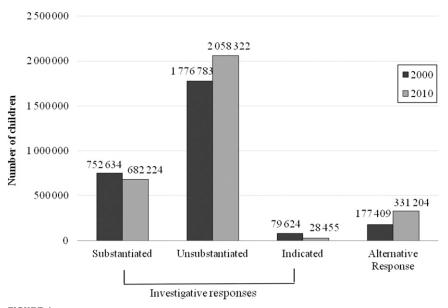
In 2000, the number of maltreatment reports eligible for investigation (suspected

maltreatment) was 2 938 681. By 2010, this number increased by 595 820 cases to 3 534 501, reflecting a 20% increase across the decade (IRR 1.20; 95% confidence interval [CI] 1.17–1.17).

Among cases that received formal investigation across the decade (Fig 1). substantiation decreased by 70 410 (9%), unsubstantiated cases increased by 281 539 (16%), and the use of "indicated" (inadequate evidence to support suspicions) as a case outcome all but disappeared, decreasing by 51 169 (64%). There was an 87% increase (153 798 more cases) in the use of alternative response to investigation (7 additional states used this approach across the decade). As substantiated cases decreased across the decade, the number of children who remained inhome with preventive or postresponse (remedial) services increased 12% and 15%, respectively. Among those children who received services after a child welfare response, 24% fewer were categorized as maltreated and 63% more as "nonvictims." Thus, although the number of cases deemed eligible for investigation increased between 2000 and 2010, more of these cases were offered an alternative approach to investigation. Simultaneously, fewer investigated cases were deemed substantiated and few were deemed "indicated," whereas more children remained in-home with services.

During this time period, fewer children were entering and exiting 00H placements (Table 1). The rate at which children were newly placed in 00H care declined 11% between 2000 and 2010. There was also a large exodus of children from 00H care between 2002 and 2008. Consequently, there was a marked decline in the number of children in 00H care. On September 30, 2010, 135 878 fewer children were in 00H placements than on the same date in 2000, representing a 25% decrease in 00H placements. The marked decline in the numbers of children in OOH care reflects both the reduction in annual placements and the large exodus that occurred from 2002 through 2008.

Figure 2 displays all the possible types of placement outcomes for children



**FIGURE 1**Child maltreatment in the United States: 2000 to 2010. Data on child maltreatment case outcomes were missing from Maryland, North Dakota, and Puerto Rico in 2000; these locations were omitted from the analysis in 2010. Total number of reports eligible for investigation was 2 938 681 in 2000 and 3 534 501 in 2010.

TABLE 1 00H Care in the United States: 2000-2010

	Fiscal year										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total N in 00H care within the year	811 855	813 817	801 481	788 183	788 437	797 925	800 374	783 501	748 571	700 040	662 540
Entered 00H Care	287 285	296 251	295 097	289 415	298 087	307 173	304 837	293 140	274 026	255 418	254 375
Exited 00H Care	267 483	269 176	278 485	278 443	280 669	287 074	295 027	294 753	288 150	276 266	254 114
In 00H Care on September 30	544 303	544 614	522 686	509 713	507 605	510 699	505 340	488 744	460 416	423 773	408 425

who exited 00H care. Positive exits (permanency) included the 7672 (93%) more children with established guardianship (left child welfare; legally supported by a relative or alternate caregiver) and the 7937 (20%) more children who were adopted. In contrast, 18 389 (11%) fewer children reunified with a birth parent, and 4021 (15%) fewer children were placed permanently with a relative who did not have guardianship (informal kinship care). Among what may be categorized as neutral or negative placement outcomes, we found an increase in those who emancipated out of foster care (no further child welfare services or support), and reductions in children who left care because of a change in agency, ran away, and died while in 00H care (Fig 2). Thus, more children achieved permanency through adoption and guardianship but fewer through reunification with parent or informally with extended family.

# Demographic and Socioenvironmental Characteristics of Children in OOH Care and Changes in These Factors Since 2000

Demographic characteristics of children in OOH care remained similar

across the decade except for a shift in racial/ethnic makeup. Among the 408 425 children in 00H care on September 30, 2010, the mean age was 8.9 years (6.0 SD), and 48% were female (Table 2). Children in 2000 were, on average, slightly older (9.6 years, 5.6 SD; P <.001), whereas adolescents aged 11 to <18 comprised the greatest proportion in both 2000 and 2010 (~40%). Across the decade, the population of African American children in 00H care decreased 28% (IRR 0.72, 95% CI 0.71-0.72), whereas the population of Hispanic children increased 38% (IRR 1.38, 95% CI 1.36–1.39). In both 2000 and 2010,

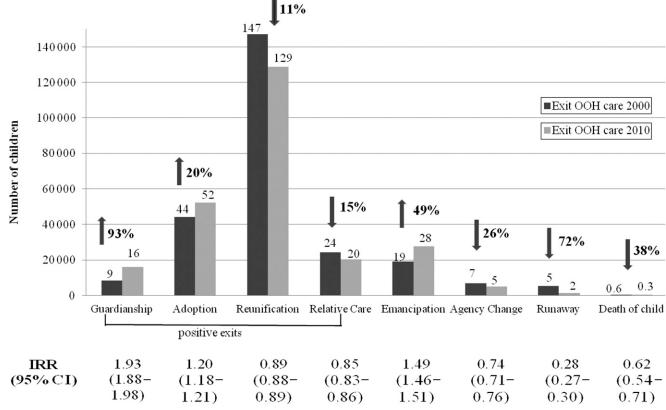


FIGURE 2
Relative change in the reasons for exiting 00H Care: 2000–2010. Data labels represent numbers in thousands.

approximately half of children in 00H care were living in nonrelative family foster homes, and approximately one-quarter resided in formal kinship care. Among children who exited care, the mean length of stay decreased from 32.4 months (SD 34.9) in 2000 to 25.5 months (SD 32.0) in 2010 (P< .001). The mean number of placement changes children experienced while in 00H care increased slightly, from 2.9 (3.0 SD) changes in 2000 to 3.1 (3.5 SD) in 2010 (P< .001).

# Number of Types of Maltreatment Before Placement and Child Emotional Disturbance

The number and relative percentage of children entering 00H care because

of maltreatment increased by 17% (IRR 1.17, 95% CI 1.16-1.17) across the decade, from 187 477 (70%) in 2000 to 196 683 (82%) in 2010 (Fig 3). Similarly, the number of children who experienced multiple maltreatment before entry increased by more than one-third (IRR 1.36, 95% CI 1.35–1.37) from 53 714 (20%) in 2000 to 65 790 (27%) in 2010. We examined this trend by placement type (Table 3) and found increases in preplacement multiple maltreatment from 2000 to 2010 among children placed in formal kin care (31% increase), foster care (34% increase), group homes (38% increase), and institutional settings (29% increase), whereas there was no change among children placed in independent living

and a 14% decrease among children placed in preadoptive homes. Thus, children placed in 00H care in 2010 appeared to have a greater burden of previous maltreatment experiences than those placed in 2000. Children in preadoptive placements had a lower rate of previous maltreatment across the decade.

Finally, we examined the prevalence of children in OOH care with emotional disturbance (Fig 3). Despite the overall decrease in the number of children in 00H placements, both the number and the rate of children in 00H care with reported emotional disturbance increased by 60% (IRR 1.60, 95% CI 1.58-1.62) across the decade, from 11% (n = 51695) in 2000 to 17% (n = 61770) in 2010. We found increases in emotional disturbance across all placement types, with children placed in group homes experiencing the greatest increase (140% increase) from 2000 (10%) to 2010 (23%).

# TABLE 2 Characteristics of Children in OOH Care: 2000–2010

Characteristic	In 00H ca	IRR (CI)	Р	
	2000	2010		
	N = 544 303 (%)	N = 408 425 (%)		
Entered OOH Care <sup>a</sup>	287 285	254 375	0.89	_
Reenter 00H care with placement history <sup>b</sup>	57 656 (20)	50 327 (20)	0.98 (0.97–1.00)	.005
Exit 00H care <sup>a</sup>	267 483	254 114	0.95	_
Female	259 036 (48)	193 998 (48)	1.00 (0.99-1.00)	.32
Age (y), Mean (SD) <sup>c</sup>	9.6 (5.6 SD)	8.9 (6.0 SD)	_	<.001
0-<3	74 640 (15)	83 759 (21)	1.41 (1.40-1.42)	<.001
3-<6	71 925 (14)	66 096 (16)	1.16 (1.15-1.17)	<.001
6-<11	125 862 (24)	80 651 (20)	0.81 (0.80-0.81)	<.001
11-<15	112 750 (22)	68 921 (17)	0.77 (0.76-0.78)	<.001
15-<18	105 243 (20)	91 663 (22)	1.10 (1.09-1.10)	<.001
≥18	23 422 (5)	17 303 (4)	0.93 (0.91-0.95)	<.001
Race				
Black	206 235 (41)	117 610 (29)	0.72 (0.71-0.72)	<.001
White	197 094 (39)	165 135 (41)	1.06 (1.05-1.06)	<.001
Hispanic	77 544 (15)	84 727 (21)	1.38 (1.36-1.39)	<.001
Multiracial	7458 (1)	21 752 (5)	3.68 (3.58-3.77)	<.001
Other	16 010 (3)	11 026 (3)	0.87 (0.85-0.89)	<.001
Placement duration <sup>c</sup>	32.4 (34.9SD)	25.5(32.0SD)	_	<.001
Total placements (during the current removal episode) Mean (SD) <sup>c</sup>	2.9 (3.0 SD)	3.1 (3.5 SD)	_	<.001
Maltreatment before care <sup>b</sup> (total <i>n</i> )				
0	135 240 (28)	65 133 (17)	0.62 (0.62-0.63)	<.001
1	244 300 (50)	204 665 (54)	1.08 (1.08-1.09)	<.001
2	82 929 (17)	89 449 (24)	1.39 (1.38-1.40)	<.001
3	17 869 (4)	17 437 (5)	1.26 (1.23-1.29)	<.001
4	4797 (1)	2386 (1)	0.64 (0.61-0.67)	<.001
5	4563 (1)	60 (0)	0.02 (0.01-0.02)	<.001
Emotional disturbance	51 695 (11)	61 771 (17)	1.60 (1.58-1.62)	<.001

 $<sup>^{\</sup>mathrm{a}}$  P values were not calculated on values representing the total population.

#### **DISCUSSION**

Our study examined national trends in child welfare from 2000 through 2010. We found that although the number of investigated referrals for suspected child maltreatment increased over 11 years, there was a surprising decrease in substantiated maltreatment and an even greater decline in the total number of children in 00H care, because fewer children entered foster care, and the use of alternative permanency options (adoption and guardianship) increased. Also, there was an increase in the numbers of children with multiple forms of maltreatment before placement and those diagnosed as having emotional disturbance. Our data indicate, therefore, that the child welfare system is now caring for fewer children but for larger numbers with complex trauma histories and emotional and mental health needs.

<sup>&</sup>lt;sup>b</sup> Among children newly entering care within the fiscal year.

c Incident rate ratio (IRR) not calculated for mean values.

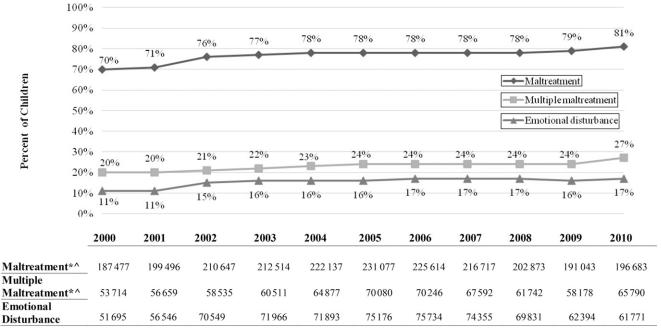


FIGURE 3

Number and relative percent of maltreatment and emotional disturbance among children in 0HO Care. \*Data from Alaska and New York were omitted from analysis because >20% of values were missing. ^Among children newly entering care within the fiscal year.

TABLE 3 Trends in Multiple Maltreatment and Emotional Disturbance by Placement Type: 2000–2010

	M	lultiple Maltre	atment	Emotional Disturbance			
	2000	2010	IRR	2000	2010	IRR	
	n (%)	n (%)	(95% CI)	n (%)	n (%)	(95% CI)	
Preadoptive	936 (30)	449 (26)	0.86 (0.79-0.96)	195 (6)	153 (10)	1.54 (1.26–1.89)	
Formal kin care	15 305 (26)	23 895 (34)	1.31 (1.29-1.34)	1496 (3)	2625 (4)	1.55 (1.45-1.65)	
Foster care	25 638 (20)	30 052 (27)	1.34 (1.32-1.36)	6471 (5)	7305 (7)	1.33 (1.29-1.37)	
Group home	2577 (10)	2163 (13)	1.38 (1.31-1.46)	2557 (10)	3403 (23)	2.40 (2.29-2.51)	
Institution	3930 (10)	2977 (13)	1.29 (1.24-1.35)	5179 (15)	4746 (25)	1.64 (1.58-1.70)	
Independent living	163 (16)	103 (16)	1.00 (0.80-1.25)	116 (12)	100 (17)	1.44 (1.12-1.84)	

# Potential Explanations for Trends in Maltreatment and 00H Care

# Preventive Efforts

The decline in suspected cases of maltreatment and 00H placements occurred after 2 decades of increasing placements. Shifts in child welfare policy and practice reflected the explosion in scientific knowledge about the impact of childhood trauma on physical, cognitive, and behavioral development, 14-17 and the important role the attachment relationship has in

long-term social, health and mental health outcomes. 18–20 Child advocates used this information to lobby for major legislation to promote stability and permanency requiring states to (1) expedite termination of parental rights when necessary and provide enhanced support to encourage foster parents to adopt (Adoption and Safe Families Act of 1997; ASFA, P.L. 105-89) and (2) increase supports and resources for kinship care and adoption and promote guardianship as an alternative when reunification and adoption are

not feasible (Fostering Connections to Success and Increasing Adoptions Act of 2008; FC, P.L. 110-351). Adoptions increased beginning a few years after ASFA was enacted. Although the latter legislation occurred toward the end of the decade, it reflected major changes in policy and practice already underway. Some jurisdictions began reserving formal child protective investigation for the highest risk cases while providing a voluntary intervention, alternative resources, to families considered lower risk.9 Child welfare also expanded inhome services intended to prevent 00H placement, and the Substance Abuse and Mental Health Service Administration and the National Child Traumatic Stress Network advocated and provided support for integrated, trauma-informed systems in child welfare and evidence-based interventions for children who had experienced trauma.21

We postulate that these changes in policy and practice contributed to the decrease in substantiated maltreatment

and to the even greater decrease in the number of children in 00H placements from 2000 to 2010. We cannot, however, link specific policy or practice changes with changing trends in 00H care, and we do not know if children who remained home continued to experience adversity. We are also unable to directly connect these changes with the increased trauma experienced by children entering OOH care. Nevertheless, although there may be other explanations for these trends (such as an overburdened child welfare system with resource restrictions), our findings are highly suggestive that shifts in child welfare policy and practice resulted in a smaller, more complex 00H care population.

# Trends in the Severity of Needs of the OOH Care Population

Our findings suggest that the 00H care population is even more complex than a decade earlier; although there are fewer children in 00H care, a higher proportion of them appear to have a greater history of trauma and more complex needs. Indeed, our data may underestimate the health burden of the 00H population because the information available in these data sets is limited. For example, other studies reported that 36% to >70% of children in 00H care have a mental health problem.<sup>22–24</sup>

To meet the needs of the increasingly fragile and traumatized 00H population, additional policy and practice change intended to strengthen 00H care systems may be necessary. 00H caregivers are often the primary therapeutic agents for children in 00H care, <sup>10</sup> yet many feel unqualified for this role when children have severe emotional problems. <sup>25</sup> Enhanced training for 00H caregivers seems to improve mental health outcomes among these children. <sup>26,27</sup> Thus, providers who are educated and supported may help alleviate

the mental health burden of children in 00H care.

# Outcomes of Children Remaining at Home

The small reduction in substantiated cases was disproportionate to the larger reduction in the OOH care population, suggesting that more maltreated children remained at home after adjudication. Although these trends resulted from focused efforts to prevent 00H placement, some evidence indicates that stable long-term placement in foster care can have positive effects on development<sup>28,29</sup> and that children returning home after being in foster care have worse behavioral outcomes than children remaining in foster care. 30,31 More detailed information is needed about the outcomes of children who remain at home.

# Strengths and Limitations

The data provide us with information on the population of US children who were maltreated or in 00H care during the period of this study, allowing for accurate description of population trends and characteristics. The primary limitation of this study is the use of administrative data, which may have inconsistencies in data collection methods and limited data elements of interest. Although our data showed that more children entered than exited 00H care annually as the total number of children in 00H care declined, this reflects a quirk in data collection because the numbers of children entering and leaving care did not represent an unduplicated count, whereas the number of children in 00H care did. Second, AFCARS used nonstandardized measures of emotional disturbance, and this database lacks detailed information about the mental health of the children. Third,

we do not know how much of the increased trends seen reflect improved identification of maltreatment and emotional issues. Finally, data on maltreatment did not include information from all states.

### **CONCLUSIONS**

Despite a substantial increase in the number of child welfare investigations over the past decade, the rate and number of substantiated maltreatment and foster care placement declined, whereas use of alternative permanency options increased (adoption and guardianship). These changes appear to have resulted in a smaller but more complex population of children in 00H care who have greater trauma histories and current emotional disturbance than the 00H care population of the past. Studies are needed to more clearly delineate optimal care for this highrisk 00H population and to assess the impact of these major trends on the child welfare population.

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