

U.S. Department of Health and Human Services Assistant Secretary for Planning and Evaluation Office of Disability, Aging and Long-Term Care Policy



EFFECT OF CONSUMER DIRECTION ON ADULTS' PERSONAL CARE AND WELL-BEING IN ARKANSAS, NEW JERSEY AND FLORIDA



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This report was prepared under contract #HHS-100-95-0046 between HHS's ASPE/DALTCP and the University of Maryland. For additional information about this subject, you can visit the DALTCP home page at http://aspe.hhs.gov/_/office_specific/daltcp.cfm or contact the ASPE Project Officer, Pamela Doty, at HHS/ASPE/DALTCP, Room 424E, H.H. Humphrey Building, 200 Independence Avenue, S.W., Washington, D.C. 20201. Her e-mail address is: Pamela.Doty@hhs.gov.

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May 16, 2005

Prepared for Office of Disability, Aging and Long-Term Care Policy Office of the Assistant Secretary for Planning and Evaluation U.S. Department of Health and Human Services Contract #HHS-100-95-0046

The opinions and views expressed in this report are those of the authors. They do not necessarily reflect the views of the Department of Health and Human Services, the contractor or any other funding organization.

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ACKNOWLEDGMENTS

Numerous individuals at Mathematica Policy Research, Inc. (MPR) made this report possible, including Licia Gaber, Peter Crosta, Gloria Gustus, Monica Capizzi, Dawn Smith, and members of the editorial staff.

This report has also benefited greatly from the thoughtful comments and suggestions of individuals outside MPR. In particular, we appreciate the input of Kevin Mahoney and Lori Simon-Rusinowitz from the National Program Office, Sue Flanagan and Marie Squillace of the Cash and Counseling Demonstration and Evaluation management team; Debby Ellis of the IndependentChoices program (Arkansas); Lou Comer, Tom Reimers, Maureen Olson, and Carol Schultz of the Consumer-Directed Care program (Florida); Marguerite Schervish of the Centers for Medicare & Medicaid Services; and the external reviewers Ted Benjamin, Scott Miyake Geron, Rosalie Kane, and Barbara Schneider.

We also thank the staff at the Centers for Medicare & Medicaid Services for their valuable support and suggestions, and for helping to make the demonstration possible by obtaining the necessary waivers.

The opinions presented here are those of the authors and do not necessarily reflect the views of the funders (the Robert Wood Johnson Foundation, and the U.S. Department of Health and Human Services, Office of the Assistant Secretary for Planning and Evaluation), the Cash and Counseling National Program Office, the Cash and Counseling demonstration states, or the Centers for Medicare & Medicaid Services.

EXECUTIVE SUMMARY

The traditional system of providing Medicaid personal care services (PCS) through home care agencies gives consumers few choices about how and when their care is provided. As a result, consumers may not receive the type of care they feel they need, nor when and how they want it. Consequently, some are dissatisfied with their care, have unmet needs, and are unhappy with the quality of their lives.

This study of the Cash and Counseling demonstration program for adults in the three participating states--Arkansas, New Jersey, and Florida--examines how a new model of consumer-directed care changes the way that consumers with disabilities meet their personal care needs and how that affects their well-being. Demonstration enrollment, which occurred between December 1998 and July 2002, was open to interested beneficiaries who were eligible for PCS under their state Medicaid plan. After a baseline survey, enrollees were randomly assigned to direct their own personal assistance as Cash and Counseling consumers (the treatment group) or to receive services as usual from agencies (the control group).¹ Cash and Counseling consumers had the opportunity to receive a monthly allowance, which they could use to hire their choice of caregivers (but not spouses or legal guardians in Arkansas) or to buy other services or goods needed for daily living. Each state had its own list of other services or goods that consumers could purchase without prior approval. Other items had to be approved on a case-by-case basis. Consumers could also call on counselors for support and advice about managing the allowance. The three states differed in how they operationalized the program, and in the size of the allowance and how it could be used, but each adhered to the basic principle of providing an allowance with limited constraints, along with some assistance in how to use it.

Because Cash and Counseling gives consumers greater flexibility and autonomy in their choice of services than the traditional system does, we expected that the individuals in the treatment group and those in the control group would meet their personal assistance needs quite differently on several dimensions. In particular, we anticipated that those in the treatment group would be more likely than those in the control group to have paid assistance at followup, to receive care during nonbusiness hours, to have multiple paid caregivers, to purchase assistive equipment and supplies, and to make home and vehicle modifications. We expected that these changes, along with being able to choose who provided the care and how that care was delivered, would improve consumer satisfaction and reduce the number of unmet needs. The treatment group, for example, was expected to have fewer unmet care needs and to be more satisfied with their paid caregivers, with their overall care arrangements, and with their life in general, without suffering more injuries or other adverse health outcomes.

¹ The Centers for Medicare & Medicaid Services (CMS) approved amendments to Florida's program (May 30, 2003) and Arkansas's program (October 2, 2002) to end the randomization requirement; New Jersey has submitted its amendment (May 17, 2004) to CMS to end randomization.

Outcome measures related to the use of PCS services and consumer satisfaction were drawn from computer-assisted telephone surveys. Because most of the outcomes were binary, logit models were used to estimate treatment-control differences, controlling for possible preexisting differences between the two groups. Program effects were estimated separately for elderly and nonelderly adults, as some believe that consumer-directed care will not work for frail, elderly individuals. The results are reported separately for each state so as to capture any differences in impacts that may arise from variations in program features.

Cash and Counseling had sizable effects on the proportion of people receiving paid care in Arkansas and New Jersey but not in Florida. In Florida, to be eligible for the program, beneficiaries had to already be receiving services under the Home and Community-Based Services Waiver, and therefore a higher percentage of enrollees in Florida were already receiving that care before enrollment. The program increased hours of paid care received by the elderly in Arkansas and New Jersey, and by the nonelderly in Florida and New Jersey, but had no effect on their total hours of care for any of these groups because the hours of unpaid care decreased (relative to the control group) for both age groups in all three states.

There were also considerable differences across states in the percentage of individuals actually receiving the allowance at nine months. Indeed, nine months after enrollment many treatment group members were not receiving the monthly allowance, especially in Florida, where fewer than half the adult treatment group members were receiving the monthly allowance at the time of the followup interview. Nine months after enrollment, about 75 percent of all treatment group members in Arkansas and 61 percent in New Jersey reported receiving the monthly allowance. In Florida, only 54 percent of the nonelderly and 39 percent of the elderly treatment group members reported receiving the monthly allowance at followup. (These estimates differ from those in the table below, which displays the proportion receiving an allowance among paid care recipients.) Virtually all of the treatment group members who were not receiving the monthly allowance were receiving traditional agency services.

Cash and Counseling had many positive effects for the nonelderly in all three states regarding their satisfaction with their overall care and general life situation but, for the elderly, only Arkansas and New Jersey had these positive results because so few Florida elderly treatment group members were getting the intervention. These estimates are representative of the effects we saw in many other indicators of care satisfaction and unmet needs.

Concerns that consumers would be more susceptible to adverse health outcomes or injuries if cared for by consumer-hired workers were not realized. For none of the measures of adverse outcomes we examined did treatment group consumers fare worse than those in the control group in any state. For example, there was no difference in the percentage of individuals who had contractures in Arkansas for either age group, or for younger adults in New Jersey and older adults in Florida. But there were significantly *fewer* problems on some measures in one or two of the states (for

Koy Cash and Counseling Demonstration Outcomes (Percent)							
Arkanoon New Jorgan Elorida							
	Arkan	isas	New Jersey		FION		
	Ireatment	Control	Ireatment	Control	Ireatment	Control	
	No	nelderly A	dults				
Receiving Any Paid Care at Nine Months	94.5***	67.8	91.6***	78.7	76.4***	64.2	
Receiving allowance at nine months ^a	80.6	N/A	66.8	N/A	67.5	N/A	
Very satisfied with paid help with personal care ^a	95.9***	75.7	82.8***	69.6	92.0***	65.4	
Very Satisfied with Life	43.4***	22.9	37.5***	21.0	63.5***	50.2	
Contractures Developed/ Worsened	26.0	25.2	24.5	28.1	9.0**	14.0	
	E	Iderly Ad	ults				
Receiving Any Paid Care at Nine Months	94.2***	78.8	93.9***	81.9	94.0	91.2	
Receiving allowance at nine months ^a	74.4	N/A	65.2	N/A	41.4	N/A	
Very satisfied with paid help with personal care ^a	84.6***	75.7	79.9***	60.0	73.5	69.1	
Very Satisfied with Life	55.5***	37.0	47.1***	25.3	35.9**	27.9	
Contractures Developed/ Worsened	15.9*	19.7	17.5***	27.1	20.0	21.9	
a. Among those receiving paid care at nine months.							

example, with contractures among younger adults in Florida and older adults in New Jersey).

* Difference between treatment and control groups significantly different from 0 at the .10 level, two-tailed test.

** Difference between treatment and control groups significantly different from 0 at the .05 level, twotailed test.

*** Difference between treatment and control groups significantly different from 0 at the .01 level, twotailed test.

In general, the largest impacts of Cash and Counseling on the receipt of paid care and quality of care were in Arkansas, where the control group was least likely to be receiving the care that they were authorized for (primarily the result of labor shortages) and where the treatment group was most likely to start receiving the monthly allowance in a timely manner. More moderate effects were evident in New Jersey, mainly because about 40 percent of treatment group members still in the community were not receiving the monthly allowance at the followup interviews about nine months after enrollment. The smallest impacts of the program were seen in Florida, especially among the elderly adults. It is important to note that, although the effects were somewhat smaller for elderly participants than for the nonelderly, the program worked well for the former age group, which had been a concern raised about the Cash and Counseling model.

States interested in improving the well-being of Medicaid beneficiaries who need PCS should consider adopting consumer-directed approaches such as Cash and Counseling. In so doing, states should ensure that consumers have the support they need from counselors to develop a spending plan so that they can actually start receiving the monthly allowance. States also need to ensure that counselors explain to

consumers that they are available to provide assistance and support in setting up a spending plan and managing their allowance.

This analysis was based on a strong, randomized research design and yielded estimated program effects that were large, compelling, consistent across numerous types of measures, and widespread across subgroups. Overall, this study offers unambiguous evidence that Cash and Counseling improved the amount and quality of paid personal assistance from the perspective of consumers, with no discernible adverse effects on safety or health. Analyses currently in progress will assess the financial consequences of adopting these programs in the three demonstration states.

INTRODUCTION

Medicaid beneficiaries with personal care needs traditionally receive services from home care agencies, but that approach may not be the most desirable way to satisfy individual needs or preferences.² Although agencies do provide important benefits to consumers, such as formally trained and supervised workers, consumers' choices about how and when their care is provided is often limited. In response to this shortcoming, many states are offering an alternative, called "consumer-directed care," which would enable consumers to control the funds for their care and to obtain services directly from individual providers (Velgouse and Dize 2000). Thus consumers manage their care in ways that better meet their needs, without increasing public costs.

Evidence of this growing movement toward consumer direction may be seen in the estimated 139 publicly funded, consumer-directed personal assistance programs that were offering their services in the United States in 1999 (Flanagan 2001). Thus, under the aegis of federal Systems Change Grants for Community Living³ and other initiatives spurred by the Bush administration's subsequent New Freedom Initiative, many states are now considering additional consumer-directed options.

A number of concerns have been raised, however, by critics of consumer-directed care, mostly regarding the welfare of consumers. A primary objection among some advocates for the elderly is that, although people with disabilities have long argued for greater control over the care they receive, consumer-directed care may be inappropriate for elderly people who are frail or cognitively impaired, and who may not be able to manage their own care effectively and safely. Other critics worry that elderly or cognitively impaired consumers might receive inadequate or substandard care, because the workers they hire may not receive the formal training or supervision available to agency workers. Additional worries are that consumers may have difficulty finding back-up care; that they might not use the monthly allowance intended for their care appropriately; and that the allowance might be used to pay family members to provide care that was once provided at no cost. Other potential problems are that consumers might be exploited or possibly abused; that oversight by a health professional would be

² The terms "personal care" and "personal assistance" are used interchangeably throughout this report to refer to the type of Medicaid services in all three states for which an allowance is provided in lieu of services (that is, services included in calculating a consumer's monthly allowance). However, the services these terms refer to in Arkansas and New Jersey differ from those in Florida. In the former states, personal care services, or PCS, include help with "activities of daily living" (bathing and dressing) and "instrumental activities of daily living" (housework, laundry, and meal preparation). In Florida, in addition to these services, other benefits include the various therapies that may be required (for example, physical, occupational, and behavioral) as well as personal care supplies. A more accurate term for Florida's include benefits is "home and community-based waiver services."

³ On May 22, 2001, the Centers for Medicare & Medicaid Services (CMS) invited proposals from states and others in partnership with their disability and aging communities to design and implement effective and enduring improvements in community long-term support systems (<u>http://www.cms.hhs.gov/systemschange</u>).

absent; and that home care agency workers, who currently provide most of this type of care, would experience a loss of market share.

A new model of consumer-directed care designed to increase consumers' control over their care while at the same time addressing concerns about consumers' wellbeing is the Cash and Counseling program. To ensure that elderly individuals who are frail or cognitively impaired can manage their own care effectively and safely, Cash and Counseling allows these consumers to have a family member or close friend act as a representative to handle the responsibilities of the program on their behalf. The program also addresses concerns regarding patients' ability to manage allotted funds by providing counselors to ensure that funds are used appropriately and that consumers are not being exploited.

This report examines the effects of the Cash and Counseling program in three states--Arkansas, Florida, and New Jersey--regarding how consumer direction affects the use and quality of both paid and unpaid personal care assistance received by consumers, as measured by consumers' satisfaction with care, the frequency of unmet needs, and the incidence of adverse health events arising from inadequate care. More than half the evaluation sample is elderly or cognitively impaired, and thus the success of the program for these consumers should help to address worries about offering consumer-directed care to this population.

The evaluation of Cash and Counseling used a randomized design to provide the first rigorous comparison of agency- and consumer-directed approaches to PCS. Included in the report is a comparison of the results of the demonstration programs in all three states.⁴

New Model of Medicaid Personal Assistance

In 2001, about 1.4 million individuals with disabilities--a diverse population of various ages--received supportive services in their homes through state Medicaid plans or home and community-based services (HCBS) waiver programs (Harrington and Kitchener 2003). Most of them received these services from government-regulated home care agencies whose professional staff select, schedule, and monitor the quality of those services.

As one model of consumer direction of supportive services, Cash and Counseling provides Medicaid beneficiaries with a flexible monthly allowance. They may use this allowance to hire their choice of workers, including family members, and to purchase other services and goods (as states permit). Cash and Counseling requires that consumers develop plans showing how they would use the allowance to meet their

⁴ For information on the impacts of Cash and Counseling on these outcomes for developmentally disabled children, see Foster et al. 2004. Only Florida offered Cash and Counseling to children.

personal care needs, and provides counseling and fiscal assistance⁵ to help consumers plan and manage their responsibilities. Consumers who are cognitively impaired or otherwise unable to manage their care themselves (and those who do not wish to assume these responsibilities but still want some control over the services they receive) may designate a representative, such as a family member, to help them manage their care or to assume these responsibilities on their behalf. These features make Cash and Counseling adaptable to consumers of all ages and with all levels of ability.

With funding from the Robert Wood Johnson Foundation (RWJF) and the Office of the Assistant Secretary for Planning and Evaluation of the United States Department of Health and Human Services, the Cash and Counseling Demonstration and Evaluation was implemented in three states--Arkansas's IndependentChoices, Florida's Consumer Directed Care, and New Jersey's Personal Preference Program.⁶ CMS issued the waivers required for states to implement it. The National Program Office for the demonstration, at Boston College and the University of Maryland, coordinated the overall demonstration, provided technical assistance to the states and oversaw the evaluation. Mathematica Policy Research, Inc. (MPR) is the demonstration evaluator. Because the Medicaid programs and political environments of the demonstration states differed considerably, the three states were not required to implement a standardized intervention. However, they were required to adhere to the basic Cash and Counseling tenets of flexibility in the use of the allowance and support to make it possible for all consumers to participate, as described above.

Key Features of the Three Demonstration Programs

Although there had long been a movement toward consumer-directed care for disabled adults, the idea of expanding the model to include frail elderly adults was new. Interest groups for the elderly have recently warmed up to the idea of consumer direction, but they need to understand how the elderly would deal with this new approach. And although other states had implemented some form of consumerdirected care in which a family member would be paid for providing care, the Cash and Counseling model provided more flexibility in terms of how the monthly allowance could be spent (for example, it could also be used to purchase equipment or supplies or to modify a home or van).

As the three states began their demonstrations, each one wanted to determine if the Cash and Counseling model was politically and economically feasible in their state

⁵ In all three states, consumers could choose to receive their monthly allowance directly and to manage payroll taxes and write checks themselves, but few chose that option.

⁶ Through a competitive bidding process, four states were selected from among those responding to the RWJF's Request for Proposals for the initial round of the Cash and Counseling Demonstration: Arkansas, Florida, New York, and New Jersey. New York had problems becoming operational, which left three participating grantee states. Arkansas was the first of these states to start enrolling consumers, in 1998.

environments. None expected to save public funds. Arkansas stressed increasing access to care more than Florida and New Jersey did because home care workers were in unusually short supply in Arkansas, particularly in the state's rural areas.⁷

The programs of all three states shared key features, but they also differed in important ways. Table 1 provides additional details about key program features across the three states. Florida differed substantially from the other two states in the services that were covered and the target population served under their Cash and Counseling programs. Arkansas and New Jersey cashed out (provided an allowance in lieu of) personal care benefits covered under their Medicaid state plan for elderly adults and nonelderly adults with disabilities. Florida cashed out all goods and services covered under its Medicaid HCBS waiver program, including behavioral therapy and personal care supplies, as well as personal care, for elderly adults, nonelderly adults with physical disabilities, and children and adults with developmental disabilities. Many consumers in Florida with developmental disabilities were not eligible to receive PCS under the waiver program, and instead were assessed as needing only therapy or supplies.

Florida also differed from the other two states in what consumers gave up upon enrollment in Cash and Counseling, notably the formal case management services⁸ the state provides to beneficiaries in their waiver program. The case manager in Florida takes an active role in coordinating all the services the beneficiary receives, including those from other agencies. Under Cash and Counseling, these case management services were no longer provided. Unlike other waiver services replaced by Cash and Counseling, the cost of case management was not factored into the monthly allowance and, instead, was used by the program to pay for counseling services.

To be eligible for the demonstration in Florida and New Jersey, beneficiaries had to be under the care of an agency or at least have a plan of care developed by an agency. Arkansas also allowed individuals to enroll who were eligible for Medicaid personal care but were not yet receiving it. None of the states screened eligible consumers to see if they were appropriate candidates; rather, consumers were allowed to enroll if they (or their representatives) felt that they could manage the Cash and Counseling program.

⁷ The three Cash and Counseling demonstration programs are not the only consumer-directed options available in the three states. At about the same time as the Cash and Counseling demonstration began, Arkansas implemented a small consumer-directed program called "Alternatives" that allowed someone to get paid to provide care for an adult family member who was disabled. New Jersey had in place the Personal Assistance Services Program (PASP), which provides help with routine medical care and chore-related tasks to people with chronic physical disabilities and also helps to enable program consumers to pursue vocational goals and maximize self-independence. Florida had a small state-funded pilot program called Choice and Control in 14 counties. This program provided services to developmentally disabled adults through a consumer-directed, choice-based system. This program was later rolled into the Cash and Counseling program with the approval of CMS.

⁸ For those who are developmentally disabled, "case management" is referred to as "support coordination."

TABLE 1. Key Features of Cash and Counseling Programs, by State					
	Arkansas' IndependentChoices	Florida's Consumer Directed Care	New Jersey's Personal Preference Program		
Demonstration Enrollment Period	December 1998-April 2001	June 2000-July 2002 (Adults) and June 2000 through August 2001 (Children)	November 1999-July 2002		
Eligible Population	Adults (elderly and nonelderly) with physical disabilities (and may also have cognitive disabilities) who were eligible for the state plan Medicaid personal care program	Those elderly adults and nonelderly adults with physical disabilities, and children and adults with developmental disabilities who were receiving services under the HCBS Waiver	Adults (elderly and nonelderly) with physical disabilities who were already enrolled in the state plan Medicaid personal care program		
Services Included in Calculating the Allowance Amount	Personal care	HCBS Waiver except case management/support coordination	Personal care		
Hiring Restrictions	Could not hire legally responsible relatives (such as spouses or parents) or representative	None	Could not hire representative		
Care Plan Discount Factor Used in Setting Allowance	Provider specific, ranging from 70 to 91 percent and averaging 86 percent across all enrollees	89 percent for elderly adults, 83 percent for adults with physical disabilities, 92 percent for children and adults with developmental disabilities	None		
Method For Calculating Allowance	\$8 per hour in care plan multiplied by provider-specific discount factor	Claims history or discount factor multiplied by value of care plan. (Care plan always used for those with developmental disabilities. Also used care plan if claims history was not stable or if care plan value was at least \$50 per month more than claims history).	Value of care plan minus 10 percent set-aside for fiscal agent and counseling services		
Median Monthly Prospective Allowance of All Demonstration Enrollees	\$313	\$829 (adults) and \$768 (children)	\$1,097		
Funding for Fiscal Agent and Counseling Services	Paid for through pool of money generated from difference between \$12.36 per hour paid to agencies and \$8 per hour rate at which allowance was cashed out. ^a	Counseling paid for through existing Medicaid funding stream for case management and support coordination in traditional program. Fiscal agent fees paid for by schedule of fees charged to consumers (for example \$5 per check).	Set aside 10 percent of care plan value to cover counseling services and some fiscal agent costs. From this pool of money, the state paid human services agencies a lump sum per consumer to complete a cash management plan and an hourly fee thereafter for consulting; state also paid fiscal agent for some tasks, such as the processing of employment- related forms. Consumers paid some fiscal agent fees (such as for cutting and stopping checks).		
Reassessments	program) and counselors (for allowance recipients)	managers (for traditional program) and counselors (for allowance recipients)	and Medicaid nurses (for allowance recipients)		
Participation in Other Consumer-Directed or Home Care Programs	Demonstration enrollees could also participate in the HCBS waiver programs ElderChoices or Alternatives ^b	For adults with developmental disabilities, the demonstration excluded six northern counties with a state-funded consumer- directed program	pernonstration enrollees could not participate in HCBS waiver programs or a state-funded consumer-directed program		
 Originally, agencies were paid a per client per month rate for counseling services which was reduced at 6-month intervals. Later in the demonstration, agencies were paid a fixed rate for developing a spending plan and then paid per client per month for counseling services. ElderChoices provides nurse-supervised homemaker, chore, and respite services to nursing home qualified elderly adults. 					

b. ElderChoices provides nurse-supervised homemaker, chore, and respite services to nursing home qualified elderly adults. Alternatives provides attendant care and environmental modifications to nonelderly adults and lets them choose and supervise caregivers. Among demonstration enrollees, 62 percent of the elderly participated in ElderChoices and 9 percent of the nonelderly participated in Alternatives.

In Arkansas and New Jersey, and for beneficiaries in Florida with developmental disabilities, the amount of the allowance was based on the expected cost to the state for the services in the care plan; for elderly adults or adults with physical disabilities in Florida, it was based on the history of Medicaid claims. If the claims history was unstable or inconsistent with the current care plan, then the care plan became the basis of the allowance allotted. The allowance amounts in Arkansas and Florida were discounted to ensure that the allowances of treatment group members were in line with the expected cost of services that similar control group members were likely to receive (because of hospitalizations, workers failing to show up at times, or other problems, consumers in the traditional program often received somewhat less care than their plans recommended). Arkansas multiplied the number of hours in the plans by a discount factor ranging from 70 to 91 percent to reflect the historical differences observed between the actual services delivered by different agencies and those authorized in the care plan. In Florida, the discount factor was 89 percent for the elderly, 83 percent for adults with physical disabilities, and 92 percent for children and adults with developmental disabilities. New Jersey, having determined that consumers typically receive the full value of their care plans, did not adopt a discount factor.

The median monthly allowance consumers qualified for at enrollment varied widely across the three states, ranging from \$313 in Arkansas to \$1,097 in New Jersey, with Florida falling midway between these two extremes (\$829) (see Table 2). Amounts also differed greatly among consumers within the states. These large differences reflected cross-state differences in the generosity of the Medicaid or waiver benefit, prevailing wages, and the types of services included in the allowance.

In all three states, the care plans (and allowance amounts) of sample members could change over time as a result of periodic reassessments. In Arkansas, the control group members were reassessed by the agencies, and the treatment group members by the program's counselors. In New Jersey, agencies reassessed those in the traditional program, and Medicaid nurses reassessed those in Cash and Counseling. However, to authorize more than 25 hours of care, agencies had to seek approval from Medicaid. In Florida, support coordinators were responsible for reviewing the support plans of control group members and for revising them as necessary to ensure that needs were met; counselors had comparable responsibility for those receiving the allowance. Care plan values also changed over time in New Jersey because the rate per hour paid to agencies (and therefore the rate at which hours were cashed out) increased by about 7 percent over the study period.

TABLE 2. Distribution of Monthly Allowance Amounts at Enrollment for All Adult								
Demonstration Enrollees, by State								
Arkansas New Jersey Florida								
Mean	\$312	\$1,081	\$1,207					
Minimum	29	109	38					
25th Percentile	202	664	470					
Median	313	1,097	829					
75th Percentile	433	1,403	1,433					
Maximum	2,003	2,782	28,102					
Sample Size 1.970 1.754 1.818								

SOURCE: Monthly allowance benefit data provided by state programs at the time of intake. In Arkansas intake took place between December 1998 and April 2001. In New Jersey, intake took place between November 1999 and July 2002. In Florida, intake took place between June 2000 and July 2002.

NOTE: Sample sizes for Arkansas and New Jersey do not equal the number of enrollees due to missing values for one of the variables involved in calculating the monthly allowance (such as the allowance amount itself or the discount rate).

Consumers (or their representatives) in all three programs were required to develop a spending plan that specified the personal assistance services needed and the equipment, goods, or other services to be purchased with the allowance. In Florida, consumers were expected to initiate contact with their counselor to establish a spending plan; in Arkansas and New Jersey, program counselors took more initiative in getting treatment group members started. Only goods and services related to the consumer's disability were permissible; however, the states usually took a broad view in assessing the purchases they would allow (for example, microwave ovens and washing machines were permitted). In general, worker time sheets and receipts for items purchased had to be submitted in order for checks to be written; consumers were not given accounts that they could write checks against, as they would with a private bank account. Spending plans could include relatively small amounts of cash--up to 10 percent of the allowance in Arkansas and New Jersey, and up to 20 percent in Florida⁹--to be paid to the consumer for incidental expenses (such as taxi fare) that were not readily purchased through an invoicing process.

All three Cash and Counseling programs recouped funds from consumer accounts maintained by the fiscal agent. The recouping procedures differed across programs. All three permitted recouping when the advancement of funds had been inappropriate (for example, the payment of an allowance after the consumer had disenrolled from the program or had undergone a lengthy hospitalization). Arkansas began recouping funds in July 2002 from consumers who had balances of more than 150 percent of their monthly allowance and who had not specified a purchase for which they were saving. New Jersey recouped funds that remained unexpended 12 months after enrollment when no use of the funds was designated in a consumer's spending plan. Florida is enacting policies and developing procedures that would allow the state to recoup undesignated funds or funds that were designated for a particular purpose but had not been spent within a certain period.

⁹ In Florida, requests for cash exceeding 20 percent of the allowance required counselor approval.

Consumers were allowed to hire relatives in all three states. A waiver of federal regulations permitted them to hire legally responsible relatives (such as spouses, parents of minors, and other legal guardians). Florida and New Jersey exercised this waiver, but Arkansas did not. Consumers who hired workers became their employer of record. To avoid a possible conflict of interest, Arkansas and New Jersey did not allow the same individual to serve as both representative and worker. Florida made no such restriction because its program was also open to children, and the state was mindful that parents typically both represent *and* care for their children.

Counseling and Fiscal Services

In all three Cash and Counseling programs, consumers were offered the assistance of counselors (or "consultants," as they are referred to in New Jersey and Florida) and a fiscal agent. Counselors interacted with consumers to (1) review initial and revised spending plans to ensure that they included only permissible goods and services, (2) help with employer functions, (3) monitor consumers' health, and (4) monitor the uses of the allowance. Florida and New Jersey required that state- or district-level staff review all spending plans. Arkansas required such review only if a plan contained an item that was not on a preapproved list. In all three programs, consumers could seek advice from counselors about recruiting, hiring, training, supervising and, when necessary, firing workers. Counselors were required to telephone and visit consumers periodically to monitor their condition and their use of the allowance. Although the frequency of required calls and visits varied across programs, counselors provided additional monitoring and problem-solving calls and visits as needed. While the Cash and Counseling program in all three states makes counselors available to perform some of the care coordinating functions performed by traditional case managers (and support coordinators) in Florida, Cash and Counseling does not impose this service on participants.

Consumers in all three programs were offered assistance with fiscal tasks, including the payroll functions of an employer (such as preparing and submitting payroll tax returns) and writing checks. A consumer who demonstrated the ability to assume responsibility for these fiscal tasks was allowed to do so. In both Arkansas and Florida, a small number of consumers assumed responsibility for all fiscal tasks. Despite an offer of free training, no consumer in New Jersey chose to take the required skills examination. To prevent abuse of the allowance, worker time sheets and check requests in all three programs were verified against spending plans before funds were disbursed.¹⁰ Counselors in Arkansas and Florida also checked receipts for expenditures under the allowance.¹¹ (New Jersey did not require the consumer to retain receipts.)

¹⁰ See Cash and Counseling program implementation reports for information about the abuse of benefits.

¹¹ In Florida, the fiscal agent reviewed receipts for all purchases made by the few consumers who assumed responsibility for fiscal tasks themselves.

EXPECTED EFFECTS OF CASH AND COUNSELING ON SERVICE USE AND QUALITY OF CARE

Under Cash and Counseling, consumers had greater flexibility and autonomy in their choice of services than they had under the traditional system. Therefore, we expected that individuals in the treatment group would meet their personal assistance needs in many areas differently than would members of the control group. These changes, in turn, were expected to improve consumer satisfaction and to reduce unmet needs.

Recent research by Benjamin, Matthias, and Franke (2000) on consumer direction in California suggests that such programs can have favorable effects on quality of care as well as the issue of unmet needs, but few studies have directly investigated its effect on *service use*. An evaluation of a cash assistance program in the Netherlands found that individuals receiving cash could buy more hours of services than a randomly assigned control group, because services purchased in the private market cost less than those provided by agencies (Miltenburg, Ramakers, and Mensink 1996). Some studies found that consumers replaced paid caregivers with family and friends (Grana and Yamashiro 1987; Osterle 1994). Other research indicated, however, that consumers did not choose to pay their former informal caregivers but continued to rely heavily on the care provided by agencies or workers hired privately (Cameron and Firman 1995). Allen, Foster, and Berg (2001) and Hoening, Taylor, and Sloan (2003) found that the use of assistive equipment reduced the number of hours of assistance received by individuals with disabilities.

Given those findings and the program's intent to be flexible and consumer-friendly, we expected that, *compared to control group numbers*, Cash and Counseling treatment group members would:

- Be more likely than control group members to be receiving paid assistance at followup.
- Be more likely to receive paid assistance during the early morning, in the evening, and on the weekend.
- Have more paid caregivers (since consumers might hire different people to meet their needs at various times of the day and week).
- Be more likely to purchase assistive equipment and supplies and to make home and vehicle modifications.
- Receive different amounts of both paid care and unpaid care (the amounts of care could be greater or lesser, depending on whether consumers substitute equipment for human assistance or have difficulty obtaining workers).

The self-directed changes consumers make were expected to improve consumer satisfaction, reduce unmet needs, and enhance quality of life. Benjamin, Matthias, and Franke (2000), using a natural experiment presented by California's In-Home Supportive Services program, found that self-directing consumers had significantly better outcomes than those receiving agency-directed services with respect to sense of security, unmet needs with regard to instrumental activities of daily living, technical quality of care, ability to pursue desired activities, general satisfaction, and providers' interpersonal manner. However, these findings may have been the result of unmeasured differences between the groups being compared.

On the other hand, critics argue that quality of care, adverse events, and health problems could worsen if managing the allowance or recruiting caregivers proves too burdensome, if the loss of nurse supervision leads to problems going undetected, if qualified caregivers are not available for hire, or if consumers purchase too little assistance from caregivers. Supporters contend that there is no evidence that nurse supervision of caregivers in the traditional agency model provides more safeguards against adverse health events than the consumer-directed model, in which the consumer, the family, the caregivers, and the counselors can detect and address any health problems that arise.

In terms of quality of care, we expected that, compared to control group members, treatment group members would:

- Have fewer unmet needs in terms of activities of daily living, household activities, transportation, and routine health care at home.
- Be more satisfied with their paid caregivers.
- Be more satisfied with their overall care arrangements, and with their lives in general.
- Have no more injuries or other adverse health outcomes than control group members have.

DATA AND METHODS

Interested consumers who met the eligibility criteria were given a baseline interview and then randomly assigned to the treatment group or the control group. Treatment group members had the option of disenrolling and returning to traditional agency-provided care any time they wished.

We then interviewed the members of both groups, nine months later, on their use of services, their satisfaction with care, unmet needs, and health status. Data for this analysis were drawn primarily from two computer-assisted telephone surveys of treatment and control group members or their proxy respondents (see the discussion below). We constructed control variables from responses to the baseline survey and from outcome variables related to PCS use from responses to the survey conducted nine months after each sample member's random assignment. The survey instruments used established measures and were pretested with respondents comparable to those in the demonstration population.

The baseline survey, administered between December 1998 and July 2002, was completed by 2,008 adults in Arkansas, 1,755 adults in New Jersey, and 1,818 adults in Florida.¹² In Arkansas, 72 percent were age 65 or older; in New Jersey, 53 percent were age 65 or older; and in Florida, 50 percent of the adults in the sample were age 60 or older. Data were collected on demographic characteristics, health and functioning, use of paid and unpaid personal assistance, reasons for enrollment in the demonstration, work and supervisory experience, unmet needs, satisfaction with services, and several quality indicators.

The nine month survey, administered between September 1999 and May 2003, was completed by 88 percent of the treatment group and by 83 percent of the control group across all three states.13 We attempted nine month interviews with all sample members or their proxies, including those of deceased sample members and of consumers who disenrolled from Cash and Counseling (many of whom had returned to traditional agency-directed services). Although we encouraged sample members to respond to our surveys themselves, if possible, the use of proxy respondents was

¹² While the Florida demonstration program also included children with developmental disabilities, results for this population are presented in a separate report.

¹³ The response rates equal the number of respondents who completed interviews divided by the number who were eligible to be interviewed. Across all three states, 3 percent of the attempted adult sample refused to be interviewed. Other nonrespondents could not be located or reached even after numerous attempts, at different times of day, over a one month period.

widespread at baseline and at followup (more than 40 percent). Sample statistics are provided in Table 3. For further discussion of proxy respondents, see Appendix A.¹⁴

TABLE 3. Response Summary for Baseline and Nine Month Followup Surveys, by State						
	Arkan	sas	New Je	ersey	Flori	da
	Completes	Percent	Completes	Percent	Completes	Percent
		Proxy		Proxy		Proxy
Baseline Survey	2,008	49.0	1,755	42.0	1,818	69.5
Nine Month	1,739	59.6	1,465	49.7	1,547	74.5
Followup Survey						
Nine Month	87.3%		83.8%		85.4%	
Survey						
Response Rate						
SOURCE: MPR, I	nc. The baseli	ine survey w	vas completed	between D	ecember 1998	and July
2002. The nine mo	onth survey wa	as complete	d between Se	otember 199	99 and June 20	003.
NOTE : Because demonstration participants were required to complete the baseline interview						
before random ass	ignment, the re	esponse rat	e for the base	line survey v	was, by definiti	on, 100
percent.						

Outcome Measures

Our analysis included objective and subjective outcome measures. To measure service use, we asked consumers factual questions about the types and amounts of PCS received and about their purchases of supplies (Florida only), equipment, and home and vehicle modifications. We also asked factual questions about disability- or health-related adverse events and health problems the beneficiary might have experienced. To measure other components of quality, we inquired about perceptions and opinions regarding: (1) satisfaction with care, (2) unmet needs for PCS (and care supplies), (3) quality of life, (4) general health status, (5) whether the beneficiary or the beneficiary's family felt knowledgeable about the care to be provided, and (6) the degree of difficulty the beneficiary had with activities of daily living.

¹⁴ Although 4,751 respondents completed nine-month interviews, many of the survey questions used in this analysis were posed only to subsets of respondents. Such restrictions were of four main types:

^{1.} We did not pose questions about consumers' satisfaction or unmet needs to proxy respondents who were also paid caregivers, because they may not have been able to give objective answers to such questions. This restriction affected the treatment group far more than it did the control group.

^{2.} Questions about satisfaction with paid care received during the given reference periods were not posed to sample members who did not receive such care. This restriction affected the control group more than it did the treatment group in Arkansas and New Jersey.

^{3.} Questions that elicited opinions were not asked if sample members were unable, in general, to form opinions (for example, because of a cognitive impairment) or if proxy respondents did not feel comfortable assessing the sample member's opinion.

^{4.} Questions about adverse events, health problems, self-care, and quality of life were not posed to the proxies of the sample members who had died. There were 136 such cases in Arkansas, 57 in Florida, and 74 in New Jersey.

Our outcome measures focus on the use of, and satisfaction with, PCS, while ignoring the other waiver benefits that were cashed out only under Florida's program (to ensure comparability of results across all three demonstration states and an acceptable interview length). Appendix Table A.1 presents a complete list of the service use and quality indicators that we examined and identifies the reference periods for which they were measured.

Measures related to PCS use were constructed from the consumer nine month followup survey. Questions about the type and amount of human assistance received referred to the most recent two weeks the consumer was home ("the past two weeks"), because these activities occurred frequently and would be difficult to recall accurately over a longer period. Questions about equipment and supply purchases or home or vehicle modification referred to the nine month period since enrollment, because these events were likely to occur infrequently. See Appendix B for detailed descriptions of the variables.

To assess the quality of personal assistance we used both objective and subjective measures (Kunkel et al. 2002; Benjamin 2001; and Kane et al. 1994). To explore concerns that consumer direction could potentially harm consumers' health, we asked respondents factual questions about disability-related adverse events and health problems.

Estimation of Program Effects

The impact estimates presented in our tables measure the effects of having had the *opportunity* to receive the monthly allowance (by being assigned to the evaluation treatment group) rather than having actually received it. As noted, our results drew on the experiences of all treatment group members, including some who were not receiving the allowance (because they disenrolled from the program or never developed a spending plan) but who were receiving help from other paid sources. Since the program obviously cannot have any effect on people who do not participate, and since the program impacts are concentrated solely on those who do, the effects on actual participants were larger than our estimates show. For example, many survey questions addressed respondents' care during a two week period shortly before the interview. At that point, 83 percent of the 2,424 treatment group members across the three states were receiving help from paid caregivers.¹⁵ Among these recipients were 395 who were disenrolled from Cash and Counseling and another 287 who were not receiving the

¹⁵ Among the 17 percent of treatment group members not receiving help from paid caregivers during the two week reference period, 129 were deceased, 167 were disenrolled, 111 were enrolled but had not hired a paid caregiver, and 13 were not living at home for at least two weeks during the two months before the interview (for example, because of a hospitalization or nursing home stay). Two other treatment group members did not say whether they had paid assistance, and two lived in a group home and were not asked about paid caregivers (because group homes could have paid staff who provide care, and so the questions about paid caregivers could be confusing for the respondent).

monthly allowance at that time. Responses from these program nonparticipants pertained to care from home care agencies and other sources rather than to care purchased with the Cash and Counseling allowance. We did not exclude these nonparticipants from the analysis sample,¹⁶ because to do so could induce unmeasured, preexisting differences between the treatment and control groups.

We used binary logit models to obtain estimates of program impacts for categorical outcome measures. For continuous outcome measures (such as hours of care or Medicaid cost), we used ordinary least squares regression models. Given that demonstration applicants were randomly assigned to the treatment or control group, we could have obtained unbiased impact estimates for most measures simply by comparing the two groups' unadjusted means. However, because members of the two evaluation groups were missing certain types of data and for different reasons (see the discussion below), the resulting groups with data on a particular outcome may have differed on baseline characteristics. Furthermore, a few chance baseline differences arose despite random assignment. Thus we analyzed service use and quality using logit models, which controlled for the sample members' baseline measures of demographic characteristics, health and functioning, use of personal assistance, satisfaction with care and life, unmet needs, reasons for and year of enrollment, work and community activities, whether the sample member used a proxy respondent, and whether he or she appointed a representative. The analyses also controlled for baseline measures of several of the service use and quality outcomes used in this analysis. (Appendix Table A.2 and Table A.3 present a complete list of these baseline characteristics and their treatment and control group means.) Use of these models ensured that any differences between treatment and control groups in these preexisting characteristics that may have arisen by chance or by differentiated nonresponse do not distort our impact estimates and increase the precision of the program's impact estimates.¹⁷

For categorical outcome measures, we measured impacts of Cash and Counseling by using the estimated coefficients from the logit models to calculate average predicted probabilities that the binary dependent variable takes a value of 1, first with each sample member assumed to be in the treatment group and then with each member in the control group. For continuous outcome measures, we measured impacts by calculating the treatment-control difference in predicted means. For both types of models, the *p*-value for the coefficient on the treatment group indicator was used to determine whether the treatment-control group difference was statistically significant. To be conservative, we conducted two-tailed statistical tests, even in cases where we proposed directional hypotheses.

¹⁶ In this report, we use the term "analysis sample" to mean those demonstration participants who responded to the nine month survey.

¹⁷ Because some control variables had unbounded coefficients (owing to perfect classification), it was necessary to drop them from some models. For a handful of outcome measures with a large number of problematic control variables, we used simple t-tests, rather than model adjusted means, to measure treatment-control differences.

We have flagged in the tables all the estimates that are significant at the .10, .05, and .01 levels but discuss in the text only those that are significant at least at the .05 level. In general, those that are significant only at the .10 level are typically either sporadic differences that are probably the result of chance or are estimates for one state where the impact is in the same direction as the other states but is significant at a more stringent level in those other states. In those cases, we interpret the differences that are significant at the .10 level as likely to be true impacts but perhaps smaller for this state than for others.

Many of our outcome measures were derived from survey questions with fourpoint scales (for example, degree of satisfaction). To reduce the number of parameters estimated and to simplify the presentation and interpretation of results, we converted each four-point scale into two binary measures rather than analyze the scales with multinomial logit models.¹⁸ For each scale, we constructed one measure that was set to 1 only if the respondent gave the most favorable rating ("very satisfied"), with all other ratings set to 0. We constructed a second measure that was set equal to 1 only if the respondent gave an unfavorable rating ("somewhat" or "very dissatisfied"), with all other ratings set to 0. (The moderate rating, "somewhat satisfied," is not presented separately in our tables.) We then estimated impacts on each of these measures, which enabled us to determine whether those with consumer direction had a higher proportion giving the highest rating, had fewer reporting dissatisfaction, or had both effects.¹⁹ For each outcome, we estimated our models separately for the elderly and nonelderly sample members, since impacts and the relationship of the outcomes to the control variables may differ for the two age groups.²⁰ We estimated impacts for other subgroups by including interaction terms for all the subgroups (including age) in a single model.

Statistical Power

In New Jersey and Florida--where the elderly and nonelderly samples were fairly comparable in size, and each age group was split nearly equally between treatment and

¹⁸ While both impacts could be estimated with one multinomial logit model, such estimates would be less precise because of the relatively large number of parameters estimated. Ordered logit models are designed for such outcome measures but may mask important nonlinear impact patterns. Thus, after examining frequencies and determining that using binary measures would not obscure important findings, we used that approach.

¹⁹ We chose to measure impacts by estimating straightforward binary logit models on individual outcomes rather than by creating and analyzing indexes and combining various measures. We did this for several reasons: (1) the meaning of what is being measured is clearer when responses to actual survey questions are examined, (2) the magnitude of impacts is easier for readers to grasp, (3) indexes assign arbitrary weights to component measures and treat ordinal measures as if they were cardinal, and (4) indexes sometimes mask important effects on component measures.

²⁰ In some instances, we used an alternative model in which the sample was pooled across age groups; an interaction term (age group times treatment status) was used to distinguish impacts for nonelderly and elderly sample members.

control groups--we had 80 percent power to detect impacts of around six percentage points within each age group for binary outcome variables with means of .10 or .90, and impacts of around ten or 11 percentage points for binary outcome variables with means of .50 (assuming two-tailed tests at the .05 significance level) (see Appendix Table A.4). In Arkansas, only one-quarter of the analysis sample (473) was nonelderly, with 1,266 elderly cases. This meant that only larger impacts for the nonelderly age group in Arkansas could be detected with 80 percent power. Slightly smaller effects were detectable in Arkansas than in the other states for the elderly age group.

Characteristics of Respondents at the Nine Month Interview

The study samples in the three states differed considerably on demographic characteristics. In Arkansas, about one-quarter of the sample members were under age 65, and more than one-third were at least 80 years of age. New Jersey's sample was comparatively younger than that of Arkansas--almost half were under age 65, and only 22 percent were 80 years old or older. Florida drew about half its enrollees from the waiver program for adults under age 60 with developmental disabilities, with the majority of these under age 40.

Three-quarters of both the Arkansas and New Jersey samples were female, while less than two-thirds of Florida's adult sample were female. Only 1 percent of the Arkansas sample was of Hispanic origin, 60 percent were White, and one-third were Black. Hispanics comprised more than one-third of New Jersey's sample, about half were White, and about one-third were Black. In the Florida sample, about one-quarter was Hispanic, and over 70 percent were White.

As expected under random assignment, treatment and control group members were similar to each other (Appendix Table A.2 and Table A.3). However, nonelderly and elderly sample members differed considerably on numerous measures and thus were analyzed separately. There were also some marked differences across the three demonstration states in terms of baseline characteristics of sample members within each of the two age groups.

We first examined the effects of consumer direction for nonelderly adults in the three states. In Arkansas and New Jersey, this group included adults with physical disabilities who were ages 18-64 at the time of enrollment. In Florida, the nonelderly group included adults with physical or developmental disabilities or both who were 18-59 years of age at the time of enrollment. The upper age limit for the "nonelderly" differed for Florida, because its Department of Elder Affairs waiver program covers consumers starting at age 60 rather than at age 65. The vast majority (close to 90 percent) of the Florida consumers in this under 60 age group were from the Developmental Services waiver program and therefore had developmental disabilities; the remainder were from the Adult Services program and had physical disabilities.

Nonelderly. In Arkansas, the nonelderly analysis sample was predominantly White, nonHispanic, female, age 40 or older, and had limited education (about half had not graduated from high school) (Table 4). Roughly one-third lived alone, and about two-thirds described their area of residence as either rural²¹ or urban with a high crime rate or poor public transportation, both of which could make the recruitment of caregivers difficult. Many sample members said that they were in poor health and had functional limitations (for example, nearly two-thirds could not get in or out of bed without help). About 60 percent of the nonelderly sample members were receiving publicly funded home care at baseline, including that funded by Medicaid. More than 30 percent were dissatisfied with their care arrangements. Finally, one-quarter of the nonelderly appointed a representative to help manage their PCS if they were assigned to the treatment group.

The pattern was similar for the New Jersey nonelderly sample, with several exceptions: (1) the racial breakdown was more evenly divided between Whites and Blacks, (2) there was a much higher percentage of Hispanics, (3) a much lower percentage lived in rural areas, (4) fewer than half were receiving publicly funded home care at baseline, and (5) by design, no one in New Jersey appointed a representative unless and until he or she was assigned to the treatment group.

The nonelderly sample in Florida was quite different from the comparable samples in Arkansas and New Jersey in many respects, primarily because nearly 90 percent of this sample subgroup consisted of adults with developmental, as opposed to physical, disabilities. The Florida sample members were much more likely to be under the age of 40, more likely to be White, and more likely to have appointed a representative. They were less likely to be female, to live alone, to report being in poor health, and to be dissatisfied with their care arrangements.

Elderly. The elderly sample in Arkansas was also predominantly White, nonHispanic, female, and had limited education (84 percent had not graduated from high school) (Table 5). Half of the elderly Arkansas sample were 80 years old or older. Roughly one-third lived alone, and about two-thirds described their area of residence as either rural or urban with a high crime rate or poor public transportation. Many sample members said that they were in poor health and had functional limitations (for example, nearly two-thirds could not get in or out of bed without help). About 80 percent of the elderly sample members were receiving publicly funded home care at baseline. Only 15 percent were dissatisfied with their care arrangements. Finally, half of the elderly appointed a representative.

²¹ Note that this classification of "rural" is based on the respondent's own perceptions. We asked if the beneficiary lived "on a farm or in the country." If the respondent was uncertain, the interviewer was allowed to add, "Do you live in a rural area?"

of Nonelderly Adults, by State (Percentages)						
Characteristic Árkansas New Jersey Florida						
Age in Years						
18-39	27.1	34.9	75.0			
40-64 ^a	72.9	65.1	25.0			
Female	67.7	65.1	45.4			
Race						
White	64.6	49.3	78.8			
Black	29.5	43.4	17.2			
Other	5.9	7.3	4.0			
Of Hispanic Origin	1.1	29.3	21.0			
Lives Alone	39.1	34.2	8.8			
Did Not Graduate from High School ^b	53.9	47.1	18.1			
Area of Residence						
Rural	36.7	9.7	15.4			
Nonrural but high crime or lacking adequate	33.8	49.3	39.7			
public transportation						
In Poor Health Relative to Peers	52.6	43.0	15.1			
Could Not Get In or Out of Bed Without Help in	61.1	66.5	50.9			
Past Week						
Receiving Publicly Funded Care at Enrollment ^c	59.9	44.4	65.2			
Dissatisfied with Overall Care Arrangements,	36.3	35.3	20.3			
Among Those with Paid Services or Goods in						
Past Week						
Appointed a Representative at Enrollment	27.3	NAd	85.6			
Number of Respondents 473 682 811						

TABLE 4 Selected Baseline Characteristics of Respondents to the Nine Month Interview

SOURCE: MPR's baseline evaluation interview, conducted between December 1998 and April 2001, for the IndependentChoices program for Arkansas; between November 1999 and July 2002, for the Personal Preference Program for New Jersey, and between June 2000 and July 2002, for the Consumer Directed Care program for Florida.

a. The samples in Arkansas and New Jersey included individuals age 18-64. The sample used for Florida included individuals age 18-59 to better reflect the feeder programs from which the two age groups came.

- b. For Florida, the percentages reflect the education of those people who would make decisions under Consumer Directed Care, be they demonstration enrollees or their representatives (if the person responding to the interview was the representative). For New Jersey and Arkansas, the percentages reflect the education of demonstration enrollees, regardless of whether they would use a representative in their state's consumer-directed program. See Appendix for description of the imputation procedures used when the education of the decisionmaker was not observed.
- c. For Arkansas, this represents whether they were receiving publicly funded home care at enrollment. For New Jersey, this represents whether they were receiving such care for six months or longer at enrollment. For Florida, this represents whether they were enrolled in the waiver (feeder) program for six months or longer at enrollment.
- d. New Jersey's program did not ask consumers if they wished to name a representative until after they were assigned to the treatment group.

of Elderly Adults, by State				
(Percenta)	ges)			
Characteristic	Arkansas	New Jersey	Florida	
Age in Years				
65-79 ^a	49.9	58.0	53.0	
80 or older	50.1	42.0	47.0	
Female	82.2	80.0	78.7	
Race				
White	60.1	59.1	70.3	
Black	34.0	30.5	26.4	
Other	5.9	10.4	3.3	
Of Hispanic Origin	1.1	40.8	34.8	
Lives Alone	30.5	36.0	29.1	
Did Not Graduate from High School ^b	83.9	69.2	31.4	
Area of Residence				
Rural	40.4	11.8	11.0	
Nonrural but high crime or lacking adequate	26.4	38.2	42.7	
public transportation				
In Poor Health Relative to Peers	47.1	40.9	37.5	
Could Not Get In or Out of Bed Without Help in	66.9	66.1	65.6	
Past Week				
Receiving Publicly Funded Care at Enrollment ^c	79.4	46.9	69.7	
Dissatisfied with Overall Care Arrangements,	14.7	24.9	20.0	
Among Those with Paid Services or Goods in				
Past Week				
Appointed a Representative at Enrollment	48.6	NA ^d	70.8	
Number of Respondents	1 266	783	736	

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SOURCE: MPR's baseline evaluation interview, conducted between December 1998 and April 2001, for the IndependentChoices program for Arkansas; between November 1999 and July 2002, for the Personal Preference Program for New Jersey; and between June 2000 and July 2002, for the Consumer Directed Care program for Florida.

- a. The samples in Arkansas and New Jersey included individuals age 65 and older. The sample used for Florida included individuals age 60 and older to better reflect the feeder programs from which the two age groups came.
- b. For Florida, the percentages reflect the education of those people who would make decisions under Consumer Directed Care, be they demonstration enrollees or their representatives (if the person responding to the interview was the representative). For New Jersey and Arkansas, the percentages reflect the education of demonstration enrollees, regardless of whether they would use a representative in their state's consumer-directed program. See Appendix for description of the imputation procedures used when the education of the decisionmaker was not observed.
- c. For Arkansas, this represents whether they were receiving publicly funded home care at enrollment. For New Jersey, this represents whether they were receiving such care for six months or longer at enrollment. For Florida, this represents whether they were enrolled in the waiver (feeder) program for six months or longer at enrollment.
- d. New Jersey's program did not ask consumers if they wished to name a representative until after they were assigned to the treatment group.

The pattern was similar in the New Jersey elderly sample, with several exceptions: (1) there was a higher percentage of Hispanics, (2) there were fewer sample members without high school diplomas, (3) a much lower percentage lived in rural areas, (4) fewer than half were receiving publicly funded home care at baseline, and (5) by design,

no one in New Jersey appointed a representative at the time he or she enrolled in the demonstration. The elderly sample in Florida was similar to that of New Jersey, with the following two exceptions: (1) Florida had a somewhat higher percentage of white sample members, and (2) most (71 percent) had a representative at baseline.

Proportion of People Actively Participating

We found sizable differences across states in the proportion of treatment group members reporting that they were receiving the allowance when we contacted them nine months after enrollment (Table 6). In Arkansas, among those still living in the community, roughly three-quarters of both elderly and nonelderly treatment group members reported that they had received the monthly allowance in the month of, or preceding, the interview. In New Jersey, 61 percent of both elderly and nonelderly treatment group members still living in the community reported that they had recently received the monthly allowance. The proportion receiving the allowance was lower in Florida than in the other two states for both age groups. For nonelderly treatment group members living in the community, only 54 percent were receiving the monthly allowance when we contacted them at nine months after enrollment. Among the elderly, only 39 percent were receiving the allowance at that time. In New Jersey and Florida, relatively few people had started receiving the allowance but subsequently stopped (for example, because they disenrolled from the program). The vast majority of the people in these two states who were not receiving the monthly allowance at nine months had never started receiving it. We discuss possible reasons for this later in the report.

States differed in how aggressively they tried to get people started on the monthly allowance. In Arkansas, counselors were expected to start people on the allowance within 45 days. About six months into enrollment, a monthly reminder system was set up in Arkansas to let counselors know when an enrollee was 30 days or more past randomization without starting the monthly allowance. Starting people on the allowance in New Jersey and Florida was less urgent, because everyone was already receiving care through (or at least assessed by) an agency at the time of randomization.²²

Across states, several factors were found to be predictive of whether a treatment group member was receiving the monthly allowance nine months after enrollment. Those who said at baseline that a very important factor in deciding to apply for Cash and Counseling was the ability to pay family members or friends to help them were significantly more likely to be receiving the allowance, as were those who said at that time that their primary informal caregiver had expressed an interest in being paid to help, and those whose primary informal caregiver was their child. Those who had

²² New Jersey initially had problems getting people on the monthly allowance in a timely fashion, but steps were later taken to remedy this, such as: (1) moving from a system where the consumer chooses the counselor to one in which the Personal Preference Program coordinator makes a referral, (2) referring new cases to more efficient agencies and counselors, (3) cutting the time between leaving traditional services and notification from 30 to 14 days, and (4) adding a standard for the time for initial contact with the counselor to within 48 hours of referral.

received help with transferring out of bed, with personal care, or with transportation were also more likely to be receiving the allowance at nine months. Those who reported being very satisfied with their paid help at baseline, as well as those who attended adult day care in the prior year, were less likely to be receiving the allowance.

TABLE 6. Monthly Allowance Status of Treatment Group Members at Nine Months							
	Arka	insas	New 、	Jersey	Flo	rida	
Nonelderly	n=2	243	n=	n=345		419	
No Longer Living in Community	1	2	1	5	13		
Living in Community	231	100%	330	100%	406	100%	
Never received allowance ^a	18	8%	108	33%	167	41%	
Stopped receiving allowance	35	15%	20	6%	20	5%	
Currently receiving allowance	178	77%	202	61%	219	54%	
Elderly	n=642 n=402		n=642 n=402		402	n=	373
No Longer Living in Community	94 32		2	31			
Living in Community	548	100%	370	100%	342	100%	
Never received allowance ^a	73	13%	129	35%	192	56%	
Stopped receiving allowance	80	15%	14	4%	15	4%	
Currently receiving allowance	395	72%	227	61%	135	29%	
All Treatment Group Members	n=	885	n=	747	n=	792	
No Longer Living in Community	106 4		4	7	4	4	
Living in Community	779	100%	700	100%	748	100%	
Never received allowance ^a	91	12%	237	34%	359	48%	
Stopped receiving allowance	115	15%	34	5%	35	5%	
Currently receiving allowance	573	74%	429	61%	354	47%	

SOURCE: MPR's nine month evaluation interview conducted between September 1999 and March 2002 for Arkansas, August 2000 and June 2003 for New Jersey, and March 2001 and May 2003 for Florida.

NOTE: This table's figures are based on survey responses to questions about the monthly allowance, not on program data about the monthly allowance.

a. This category includes some people who did not know whether they had received the monthly allowance yes: four in Arkansas, eight in New Jersey, and 14 in Florida.

RESULTS

In all three states, nearly all recipients of the monthly allowance had at least one paid caregiver in the past two weeks (Table 7). The proportion of recipients using their allowance for other purposes was generally small but varied somewhat across states. For example, 60 people in Arkansas (10 percent of those recently receiving the allowance) reported using the allowance to modify their home at some time since enrollment (for example, installing ramps, grab bars, shower stalls, and elevators; widening doorways, lowering counters, and replacing door knobs with handles). However, few did so in the other two states. The primary use of the allowance besides hiring a worker was to purchase equipment to assist with communication or to increase the consumer's safety (9-13 percent). In Florida, 44 percent used the monthly allowance to purchase personal care supplies.²³

TABLE 7. How Monthly Allowance was Used Among Those Treatment Group Members Recently Receiving Monthly Allowance, by State						
	Arkansas	New Jersey	Florida			
Number Recently Receiving Monthly Allowance	577	432	355			
Had at Least One Paid Caregiver in Past Two	557	426	341			
Weeks	(97%)	(99%)	(96%)			
Used Monthly Allowance to Modify Home	60	10	18			
	(10%)	(2%)	(5%)			
Used Monthly Allowance to Modify Car or Van	8	3	3			
	(1%)	(1%)	(1%)			
Used Monthly Allowance to Buy, Rent, or Repair Equipment:						
For meal preparation, housekeeping	56	29	18			
	(10%)	(7%)	(5%)			
To help with personal activities,	`75 ´	22	<u>`</u> 32			
communication, safety ^a	(13%)	(5%)	(9%)			
Used Monthly Allowance to Purchase Personal	NA	NA	156			
Care Supplies			(44%)			
SOURCE: MRR's pine month evaluation interview, conducted between Sentember 1000 and						

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and March 2002 for Arkansas, August 2000 and June 2003 for New Jersey, and March 2001 and May 2003 for Florida.

NOTE: Among the three demonstration states, Florida was the only one that included in the monthly allowance the expected cost for waiver services other than human assistance, such as personal care supplies.

a. Personal activities, such as getting out of bed, using the toilet, taking a bath, or moving around the house; communication aids such as computers, hearing aids, speech devices, special telephone systems, and flashing lights; safety devices such as personal emergency response and alarm systems.

²³ Of the three demonstration states, only Florida included in its monthly allowances personal care supplies that were covered under its Medicaid HCBS waiver program. However, consumers in all three states were *allowed* to use their allowance for such purposes.

Nonelderly Adults

Presented in this section are the results for nonelderly adults in all three states. The first discussion centers on treatment-control differences related to the use of services, followed by a discussion of quality indicators such as satisfaction with care and unmet needs. As pointed out earlier, the vast majority (close to 90 percent) of the Florida consumers in this under-60 age group were from the Developmental Services waiver program and therefore had developmental disabilities.

Use of PCS. There were small treatment-control differences, in both directions, in the percentage of sample members still living in the community at the end of nine months (that is, not deceased or living in a nursing home or hospital) (Table 8).²⁴ In all three states, treatment group members still living in the community were significantly more likely than control group members to be receiving paid assistance with PCS. The difference was largest in Arkansas, where only two-thirds of the beneficiaries in the control group were receiving any paid care at followup, whereas about 95 percent of those in the treatment group were receiving such care. Among the nonelderly in the Arkansas control group, a large disparity existed between those who had been receiving personal assistance at the time of enrollment and those who had not been receiving such assistance. (No such disparity was found within the treatment group.) Among those already receiving services at baseline, 78 percent were receiving paid assistance at nine months, whereas only 47 percent of those new to such services were receiving paid assistance at that time. We do not know the reason for this disparity, whether it was the result of induced demand or worker shortages or some other cause.

The differences in the percent of consumers receiving paid assistance were smaller but still sizable (about 12 percentage points) in New Jersey and Florida. More than 90 percent of treatment group members in Arkansas and New Jersey were receiving paid assistance at nine months. The much lower rate in Florida (76 percent) reflected the fact that Florida consumers qualifying for any of the waiver services covered by the allowance were eligible to participate in Cash and Counseling, whereas the Arkansas and New Jersey programs were open only to consumers who were eligible for personal care. (Recall that only about half of Florida's sample members were receiving paid personal care at the time of enrollment in the study.) As might be expected under the Cash and Counseling model, under which people can pay family members to provide personal care, the treatment group was significantly less likely than the control group to have paid visiting caregivers (those who do not live with the consumer) and more likely to have paid live-in caregivers (household members who are paid under the program).

²⁴ People no longer live in the community for a number of reasons. A separate Cash and Counseling report examines nursing home use with more complete data for the full sample.
Followup questions of nonelderly control group members who reported no paid caregivers at nine months in all three states revealed no clear pattern. Some reported having had no paid care in the previous nine months, with some in this group having tried to obtain such care and others not having done so. Others responded that they had had paid caregivers at some point in the previous nine months but no longer wanted the care. And still others said that the agency was unable or unwilling to provide such care.

TABLE	TABLE 8. Estimated Effects of Cash and Counseling on Likelihood of Living in the Community and Receiving											
			Assistance D	Juring Past T	wo Weeks	Nonelderly						
Outcome	Ar	kansas (n = 47	73)	New	/ Jersey (n = l	682)	F	lorida (n = 811)			
	Predicted	Predicted		Predicted	Predicted		Predicted	Predicted				
	Treatment	Control		Treatment	Control		Treatment	Control				
	Group	Group	Estimated	Group	Group	Estimated	Group	Group	Estimated			
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect			
	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)			
Lived in the	93.1	95.7	-2.6	95.9	92.8	3.1*	96.9	99.0	-2.1**			
Community ^a	!		(.279)			(.084)	!		(.039)			
Of Those Living	g in the Commu	unity:										
Received	94.5	67.8	26.7***	91.6	78.7	12.9***	76.4	64.2	12.2***			
paid as-	1		(.000)			(.000)	1		(.000)			
sistance ^ª												
Received	97.1	95.0	2.1	87.9	89.5	-1.6	94.8	95.4	-0.6			
unpaid as-			(.130)			(.493)			(.699)			
sistance ^{a,o}	!						!					
Among Those v	with Paid Care:								•			
Had multi-	17.9	36.7	-18.8***	30.1	36.0	-5.9	52.5	38.9	13.5***			
ple paid			(.000)			(.127)			(.001)			
caregivers												
Had paid	75.6	92.3	-16.6***	78.0	98.6	-20.6***	81.5	98.0	-16.5***			
visiting	1		(.001)			(.000)	1		(.000)			
caregivers												
Had paid	28.1	14.6	13.5***	29.3	2.2	27.1***	35.4	6.1	29.3***			
live-in			(.003)			(.000)			(.000)			
caregivers												
SOURCE: MP	R's nine month	evaluation inte	rview, conducte	ed between Sep	otember 1999	and March 200	02 for Arkansas	, August 2000 a	and June			
2003 for New J	ersey, and Mar	ch 2001 and M	ay 2003 for Flo	rida.								
NOTES: Mean	is were predicte	ed using logit m	odels. The san	nples used for A	Arkansas and	New Jersey in	cluded individua	als ages 18-64.	The sample			
used for Florida	a included indivi	iduals ages 18-	59.									
a. Effects es	stimated by poc	oling the two ag	e groups and ir	ncluding an age	*treatment sta	atus interaction	term in the mo-	del.				
b. Effects fc	or Florida were a	estimated using	a simple t-test	í .								

*Significantly different from zero at the .10 level, two-tailed test.

Significantly different from zero at the .05 level, two-tailed test. *Significantly different from zero at the .01 level, two-tailed test.

The relationship between workers and the consumers who hired them was quite similar in Arkansas and New Jersey; it was very different in Florida, however, because the latter state drew most of its nonelderly enrollees from its waiver program for people with developmental disabilities (Table 9). Among treatment group consumers in Arkansas and New Jersey who received an allowance and hired a worker, the proportion hiring children, parents, other relatives, and only unrelated people was roughly equivalent (around one-fourth of consumers in each group). In Florida, on the other hand, very few consumers hired their children (because so few have any children). About one-third of the Florida sample hired a parent, another third hired another relative, and the remaining third hired only unrelated people.

TABLE 9. Who Did Treatment Grou	p Members	Hire?	
Nonelderly	-		
(Percentages)			
Outcome	Arkansas	New Jersey	Florida
Percent of Those Receiving Paid Care Who Received	80.6	66.8	67.5
Allowance at Nine Months			
Percent of Those Receiving Allowance at Nine Months	97.8	99.5	95.0
Who Received Paid Care			
Among Those Receiving Allowance at Nine Months,			
Had a Paid Caregiver Who Is Their:			
Spouse	0.0	4.5	1.0
Child	29.3	25.3	1.4
Parent	16.1	20.3	32.7
Other relative	27.6	25.3	35.1
Had only unrelated paid caregivers	27.0	32.7	37.5
Sample Size	174	202	208
SOURCE: MPR's nine month evaluation interview, cond	ucted betwee	en September 1	999 and
June 2003. Sample is restricted to those with one or mo	re paid careg	ivers at nine mo	onths.
Percentages sum to greater than 100 percent because c	onsumers co	uld hire more th	ian one
type of caregiver. A small number of consumers residing	j in group hoi	mes are exclude	ed from
this table.			

While virtually all nonelderly sample members in all three states who were receiving the monthly allowance had a paid caregiver at nine months, not all who had a paid caregiver at that time were receiving the monthly allowance. In Arkansas, about 80 percent of those receiving paid care were also receiving the allowance; however, in New Jersey and Florida, only about two-thirds of those receiving paid care were also receiving the allowance. This means that Arkansas respondents were referring primarily to the care they purchased with the monthly allowance when asked about their satisfaction with paid care, whereas one-third of responses to the same questions from those in New Jersey and Florida referred to the agency-provided care they were receiving.

The times of day and days of the week that care was received also differed for treatment and control group members. In Arkansas and New Jersey, treatment group members were more likely than those in the control group to be receiving paid assistance with PCS during nonbusiness hours (weekday mornings before 8 a.m., weekday evenings after 6 p.m., or weekends), by about nine percentage points (Table 10). The difference in Florida was somewhat smaller and was limited to a slightly higher percentage receiving care during weekday evenings.

TABLE	TABLE 10. Estimated Effects of Cash and Counseling on the Timing of Care Received During Past Two Weeks											
	Ar	kansas (n = 47	73)	New Jersey (n = 682)			Florida (n = 811)					
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)			
Received Care	giver Assistanc	e:										
Early week- day morn- ings (before 8 a.m.)	55.1	49.9	5.1 (.207)	60.1	54.4	5.7* (.095)	72.9	75.6	-2.7 (.286)			
On weekday evenings (after 6 p.m.)	80.2	75.0	5.2 (.153)	83.2	72.8	10.4*** (.001)	89.0	85.3	3.7* (.060)			
On weekends	85.4	79.1	6.3* (.067)	89.6	79.4	10.2*** (.000)	93.4	92.5	0.9 (.594)			
On weekday mornings/ evenings or on weekends	90.7	81.8	8.8*** (.006)	90.8	81.7	9.1*** (.000)	95.2	94.4	0.8 (.587)			

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and March 2002 for Arkansas, March 2001 and May 2003 for Florida; August 2000 and June 2003 for New Jersey.

NOTES: Means were predicted using logit models. In each state, no more than five cases were lost to item nonresponse for any of these outcomes.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

The total hours of personal care received, and the differences in hours received by the treatment and control groups, were not consistent across the three states (Table 11). Nonelderly consumers in Arkansas received substantially fewer total hours of care than did those in New Jersey, who in turn received substantially fewer hours than those in Florida. The total hours of care in Arkansas were significantly lower for treatment group members (by 23 hours) during the two-week period prior to the nine month followup interview as a result of less unpaid care. No such difference was observed in New Jersey or Florida, which had smaller proportions of consumers receiving a monthly allowance. The total number of hours of unpaid care and of live-in care (paid or unpaid) was also significantly lower for treatment group members in Arkansas. In both New Jersey and Florida, treatment group members had significantly more paid hours of care over that two-week period, offsetting the fewer hours of unpaid care they received.²⁵

²⁵ In Arkansas, no difference was found between nonelderly treatment and control group members in terms of the number of hours of paid care received. Nonelderly members of both groups received an average of 23 hours in the two-week reference period. This finding may seem incongruous with the large and statistically significant difference observed in the proportions receiving *no* paid assistance: 5 percent of the treatment group compared to 32 percent of the control group (Table 8). The main reason for the lack of any difference in average hours of paid care despite the much greater proportion of controls with zero hours is the skewed distribution of this variable. In the control group, the six beneficiaries (3 percent of the total) with the highest number of paid care hours all have more hours of paid care than the maximum number of paid hours observed among treatment group members (123 hours), and account for 20 percent of all paid care hours for the control group by 4 hours. Thus the estimate of no difference in number of paid hours does not represent the program's impact on the typical sample member. It appears that the program may have reduced the need for extremely high amounts of paid care, perhaps as a result of the flexibility offered.

Furthermore, control group members in Arkansas were more likely than treatment group members to be in the Alternatives program (another Medicaid waiver program in Arkansas that allows family members to be paid for

The effect on the distribution of paid hours also differed between states: treatment group consumers in Arkansas and New Jersey were less likely than controls to receive less than an hour per day of care and also less likely to receive more than five hours per day, but they were more likely to receive a moderate amount of paid care. (See Appendix Table A.5.) In Florida, however, those in the treatment group were much more likely to receive five or more hours per day of paid care.

TABLE	11. Estimate	ed Effects of	Cash and C	ounseling or Noneld	the Hours	of Care Rec	eived During	g Past Two V	Veeks
Outcome	Δr	kansas (n = 4	28)	Noneit	lersev (n = (616)	Florida (n = 726)		
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Total Hours Paid and Unpaid Care	96.7	119.8	-23.1** (.014)	145.2	149.9	-4.7 (.612)	187.5	188.7	-1.2 (.878)
Paid hours	23.1	23.0	0.2 (.959)	38.8	33.2	5.6** (.023)	39.4	28.9	10.5*** (.000)
Unpaid hours	73.6	96.8	-23.2*** (.008)	106.5	116.7	-10.2 (.242)	148.1	159.8	-11.7 (.130)
Total (Paid and	Unpaid) Hours	Received from	1:						
Live-in caregiver for the individual	28.3	32.6	-4.3 (.291)	46.1	42.9	3.2 (.451)	66.4	65.3	1.1 (.789)
Live-in caregiver for household	37.9	47.6	-9.7** (.045)	51.5	53.3	-1.8 (.703)	85.4	89.4	-4.1 (.382)
Visiting caregiver SOURCE: MP	30.5 R's nine month	39.5 evaluation inte	-9.0* (.061) rview_conducte	47.6 ed between Ser	53.7 otember 1999	-6.1 (.155) and June 2003	35.8	34.0	1.8 (.579)

NOTES: Means were predicted using ordinary least squares regression models. This analysis includes only those with complete data for each component of total hours (about 90 percent of the sample for each state).

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

Also inconsistent across the three states among the nonelderly were the uses of the allowance other than hiring workers, such as purchasing equipment or modifying the home or car to better accommodate the beneficiary's disability (Table 12). In Arkansas, treatment group members were more likely than controls to obtain equipment for personal use (such as for communication, safety, movement, and bathing/toileting). In New Jersey, treatment group members were more likely to obtain equipment to help with household activities (such as for meal preparation and housekeeping) and less likely to repair equipment they already had. No significant differences (at the .05 level) on these uses of the allowance were found for the nonelderly in Florida.

providing care to adults with disabilities), which also increased the number of paid care hours in the control group. Finally, several other control group members had nonlive-in relatives who were paid for providing care. Because we assumed that any visiting caregivers who were paid received compensation for *all* the hours that consumers said these caregivers provided, the number of paid hours for these relatives is probably overestimated (because they are likely to have provided some of these hours of care without compensation).

TABLE 12	TABLE 12. Estimated Effects of Cash and Counseling on Home Modifications and Equipment Purchases or Repairs										
				Noneld	erly				-		
Outcome	Ar	kansas (n = 47	71)	New	Jersey (n = 6	677)	Florida (n = 805)				
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)		
Since Enrollme	nt:										
Modified house	30.1	26.2	3.8 (.338)	17.6	14.3	3.3 (.197)	17.9	23.0	-5.1* (.062)		
Modified car or van ^a	2.7	5.1	-2.4 (.131)	4.5	6.9	-2.4 (.211)	5.7	8.8	-3.1* (.090)		
Obtained special equipment for meal preparation or house- keeping	20.9	15.6	5.2 (.140)	19.0	12.3	6.6** (.013)	14.8	15.9	-1.1 (.664)		
Obtained equipment to help with personal activities/ communica- tion	29.3	21.2	8.0** (.043)	24.4	26.1	-1.7 (.573)	27.0	22.9	4.1 (.155)		
Repaired equipment used to help client	20.5	17.4	3.0 (.372)	15.1	22.1	-7.0** (.015)	20.2	24.0	-3.7 (.166)		
Modified home or vehicle or purchased any equip- ment or supplies	60.2	49.6	10.7** (.013)	47.4	42.5	4.9 (.149)	65.5	66.2	-0.7 (.797)		
NOTES: Mean smaller than the	s were predicte e numbers give	ed using logit m n here by three	odels. Because or four cases.	e of slight differ	ences in item	nonresponse, s	sample sizes fo	r some outcom	es are		

a. Effects were estimated by pooling the two age groups and including an age*treatment interaction term in the model in Arkansas. Effects were estimated for New Jersey using a simple t-test.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

Nonelderly treatment group members in Arkansas and New Jersey were significantly more likely than controls to receive assistance with most of the types of care examined, but no such differences were observed in Florida (Appendix Table A.6). Nonelderly treatment group members in Arkansas were much more likely to be receiving help with eating, transferring in and out of bed, toileting, other personal care, shopping, transportation, and "other things around the house or community" (such as yard work or heavy housework). Treatment-control differences in New Jersey were generally smaller but always positive and statistically significant for most outcomes. In Florida, the only significant effect was for assistance with "other things around the house or community." Although one might have expected treatment group members to use fewer community services (such as Meals-on-Wheels or adult day care) than control group members, Cash and Counseling seemed to have had little effect in either direction on the percentage of nonelderly beneficiaries using many of these services (Appendix Table A.7). In Arkansas, treatment group members were significantly less likely to receive home-delivered meals. In New Jersey, members of the treatment group were significantly less likely to have attended an adult day care center or a recreational program. No significant effects were found for other outcomes or for Florida.

Quality of PCS. While a substantial number of nonelderly beneficiaries in both groups reported having unmet needs for various types of care, treatment group members in all three states were significantly less likely to report having unmet needs (Table 13). Consumers in Arkansas experienced the largest differences in unmet needs, particularly needs related to activities of daily living, household activities, and transportation.

Among the nonelderly in all three states, the treatment group had significantly fewer problems than the control group with their paid caregivers and were significantly more satisfied (Table 14). Generally the differences were largest in Arkansas and smallest in Florida. Treatment group members in Arkansas and New Jersey were much more likely to report that their paid caregivers always completed their tasks, never arrived late or left early, and came as scheduled. Treatment-control differences in Florida were somewhat smaller on some of the measures. In all three states, the treatment group was significantly more likely to be satisfied with their paid caregiver's schedule and, except in New Jersey, believed that they could easily change the schedule, if necessary.

	TABLE 13. Estimated Effects of Cash and Counseling on Unmet Needs											
	Nonelderly											
Outcome	Ar	kansas (n = 43	39)	New Jersey (n = 637)			Florida (n = 746)					
	Predicted Treatment Group	Predicted Control Group	Estimated	Predicted Treatment Group	Predicted Control Group	Estimated	Predicted Treatment Group	Predicted Control Group	Estimated			
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect			
	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)			
Has an Unmet	Need for Help v	with:										
Daily living	25.8	41.0	-15.2***	46.1	54.5	-8.4**	26.7	33.8	-7.1**			
activities ^a			(.001)			(.028)			(.014)			
Household	41.3	56.0	-14.7***	55.7	62.2	-6.5*	35.5	43.8	-8.2**			
activities			(.002)			(.084)			(.014)			
Transporta-	27.0	47.2	-20.2***	46.2	54.1	-7.9**	32.2	38.5	-6.3*			
tion ^c			(.000)			(.037)			(.057)			
Routine	26.6	32.3	-5.7	37.0	50.5	-13.6***	16.8	23.9	-7.1**			
health care ^d			(.189)			(.000)			(.011)			

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003.

NOTES: Means were predicted using logit models. Sample sizes for some variables in this table were up to 25 percent smaller because of difference in item nonresponse and skip patterns.

a. Daily living activities include eating, dressing, toileting, transferring, and bathing.

b. Household activities include meal preparation, laundry, housework, and yard work.

c. Transportation includes trips to and from a doctor's office, shopping, school, work, and recreational activities.

d. Routine health care includes help with medications, checking blood pressure, and doing exercises.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

Nonelderly beneficiaries in the treatment groups of all three states were more likely to report being very satisfied with their relationship with the paid caregivers (Table 15), but only treatment group members in Arkansas and New Jersey gave a better assessment of their caregivers' performance than did members of the control group. In Arkansas and New Jersey, treatment group members were significantly less likely to report that their paid caregivers had neglected them, had been rude or disrespectful, or had taken something from them without asking. The differences were especially large in Arkansas, where the proportion of consumers receiving the allowance was greatest.

TABLE 14	. Estimated E	Effects of Ca	sh and Cour	seling on Sa	tisfaction v	vith Paid Ca	regivers' Rel	iability and	Schedule
				Noneld	lerly				
Outcome	Ar	kansas (n = 30	65)	New	Jersey (n =	551)	Florida (n = 467)		
	Predicted	Predicted		Predicted	Predicted		Predicted	Predicted	
	Treatment	Control		Treatment	Control	F . (1)	Treatment	Control	-
	Group	Group	Estimated	Group	Group	Estimated	Group	Group	Estimated
	(Percent)	(Percent)	Effect	(Percent)	(Percent)	Effect	(Percent)	(Percent)	Effect
Completed Tas	(Fercent)	(Fercent)	(p-value)	(Fercent)	(Fercent)	(p-value)	(Fercent)	(Fercent)	(p-value)
Alwovo	62.0	26.0	0F 0***	E2 0	41.0	11 0***	E2 4	46.0	6.5
Always	02.0	30.0	(.000)	52.0	41.0	(.005)	55.4	40.9	(.148)
Usually/	16.0	38.7	-22.7***	25.1	38.1	-13.0***	19.6	29.3	-9.7**
sometimes/			(.000)			(.001)			(.013)
rarely									
Arrived Late or	Left Early								
Never	59.3	37.6	21.8***	52.8	35.7	17.1***	48.3	39.6	8.7*
			(.000)			(.000)			(.061)
Often	11.4	25.0	-13.6***	15.2	30.4	-15.3***	13.8	18.1	-4.3
			(.002)			(.000)			(.202)
Did Not	7.7	28.5	-20.9***	11.3	24.4	-13.1***	14.4	24.5	-10.2***
Come as			(.000)			(.000)			(.008)
Scheduled ^⁵									
Satisfaction wit	h Caregivers' S	schedule⁵							
Very	85.2	66.9	18.3***	73.4	56.8	16.6***	83.4	70.9	12.5***
satisfied			(.000)			(.000)			(.002)
Dis-	2.7	16.4	-13.7***	9.1	16.0	-6.9**	1.5	9.5	-8.0***
satisfied ^c			(.000)			(.030)			(.000)
Could	53.5	41.6	11.8**	37.2	34.6	2.6	47.9	33.9	14.0***
easily			(.046)			(.562)			(.003)
change									
schedule									
SOURCE: MP	R's nine month	evaluation inte	rview, conducte	ed between Sep	otember 1999	and June 2003	3.		
NOTES: Maan	e woro prodicto	d using logit m	odole Sampla	cizos for como	variables in th	nie table wore i	in to 20 norcon	t cmaller becau	ico of

NOTES: Means were predicted using logit models. Sample sizes for some variables in this table were up to 20 percent smaller because of differences in item nonresponse and skip patterns.

a. This measure is derived from a survey question with a five-point scale. The binary variables shown here represent the most favorable rating (always) and a less favorable one (usually, sometimes, or rarely). The intermediate rating (almost always) is not presented.

b. Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in the model.

c. Impacts could not be estimated with the logit model. Results presented are the unadjusted means and treatment-control differences.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

Regarding consumers' satisfaction with specific types of care, the nonelderly participants of Cash and Counseling had significantly higher levels of satisfaction across the board (Table 16). In Arkansas and Florida, the treatment group members were significantly more likely to report that they were very satisfied (and less likely to report that they were dissatisfied) with the way their paid caregivers helped with activities of daily living, things around the house and community, routine health care, and the ability to get transportation. In New Jersey, the treatment-control differences were statistically significant for most of these same types of help (with the exception of assistance with routine health care, for which the difference was positive but smaller).

In all three states, treatment group members were much more likely than those in the control group to report that they were very satisfied with their overall care arrangements (Table 17). They were also much less likely to reported being dissatisfied. Dissatisfaction with care virtually disappeared for the treatment group members in Arkansas and Florida, compared to rates of 31 and 18 percent, respectively, for the control groups in those states. In New Jersey, the treatment group's dissatisfaction rate was half that of the control group. Furthermore, in all three states, the treatment group members were significantly more likely than members of the control group to report being very satisfied with how they were spending their lives

these days and significantly less likely to report being dissatisfied. These effects were very large, ranging from 13 to 21 percentage points.

TABLE 15. I	TABLE 15. Estimated Effects of Cash and Counseling on Quality of Care Provided by Paid Caregivers and Relationship											
				Noneld	lerly		-		-			
Outcome	Ar	kansas (n = 37	(4)	New	Jersey (n =	586)	Florida (n = 564)					
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)			
Satisfaction wit	h Relationship ^a			-	-	-						
Very satisfied	95.0	78.5	16.5*** (.000)	89.7	78.4	11.4*** (.001)	94.4	83.2	11.1*** (.002)			
Dis- satisfied ^b	1.1	6.6	-5.5*** (.007)	2.0	2.7	-0.8 (.575)	1.5	3.0	-1.5 (.295)			
Paid Caregiver	s:											
Neglected client	14.1	33.5	-19.4*** (.000)	20.9	33.6	-12.6*** (.001)	18.6	22.8	-4.2 (.247)			
Were rude or dis- respectful	10.5	29.5	-18.9*** (.000)	18.7	30.1	-11.4*** (.002)	16.5	18.0	-1.4 (.671)			
Took something without asking ^{a,b}	1.7	4.4	-2.7** (.040)	6.1	11.2	-5.1** (.037)	5.3	7.1	-1.7 (.395)			
Gave unwanted help ^a	40.2 R's nine month	36.9	3.3 (.521)	34.8	42.6	-7.8* (.064)	38.6	34.7	3.8 (.382)			
		c valuation mile		a permeeti oeb	1999							

NOTES: Means were predicted using logit models. Sample sizes for some variables in this table were up to 28 percent smaller because of differences in item nonersponse and skip patterns.

Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in model. Some impacts could not be estimated with the logit model. Results presented for one or more states are the unadjusted means and b. treatment-control differences.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

As mentioned earlier, one of the concerns about Cash and Counseling was the risk associated with caregivers not being required to receive formal training or supervision in care provision, which could increase the incidence of health problems and injuries. Not only did we find no outcomes for which the treatment group had higher rates of adverse events, but for some measures the treatment group members reported significantly *fewer* of these problems than did those in the control group (Table 18). In Arkansas, the nonelderly treatment group members were significantly less likely than control group members to report the development (or worsening) of shortness of breath and less likely to report the development (or worsening) of bedsores. In New Jersey, the treatment group members were significantly less likely to report falls, problems with shortness of breath, or respiratory infections. In Florida, treatment group members were less likely to report having seen a doctor because of a fall, less likely to report having a urinary tract infection, and less likely to report problems with contractures. New Jersey and Florida treatment group members were also less likely than controls to report that their health was poor and, in New Jersey, less likely to report being admitted to a hospital or nursing home.

^{*}Significantly different from zero at the .10 level, two-tailed test.

TABLE 16.	TABLE 16. Estimated Effects of Cash and Counseling on Paid Caregiver Performance and Transportation Assistance											
				Noneld	lerly			•				
Outcome	Ar	kansas (n = 40	00)	New	Jersey (n =	552)	Florida (n = 518)					
	Predicted	Predicted		Predicted	Predicted		Predicted	Predicted				
	Treatment	Control		Treatment	Control		Treatment	Control				
	Group	Group	Estimated	Group	Group	Estimated	Group	Group	Estimated			
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect			
	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)			
How Satisfied v	vith the Way Pa	id Caregivers I	Helped with Dai	ly Living Activit	ies in Recent	Two Weeks ^a			-			
Very	95.9	75.7	20.2***	82.8	69.6	13.2***	92.0	65.4	26.6***			
satisfied ^b			(.000)			(.001)			(.000)			
Dis-	0.6	10.8	-10.3***	2.0	8.5	-6.4***	1.2	6.5	-5.4**			
satisfied ^e			(.000)			(.002)			(.012)			
How Satisfied v	vith the Way Pa	aid Caregivers I	Helped Around	the House/Com	nmunity in Rec	cent Two Week	(s ^c					
Very	90.4	64.0	26.4***	84.4	66.0	18.4***	85.4	70.9	14.5***			
satisfied			(.000)			(.000)			(.001)			
Dis-	1.6	14.9	-13.2***	3.6	5.3	-1.7	2.2	9.8	-7.6***			
satisfied ^e			(.000)			(.363)			(.003)			
How Satisfied v	vith the Way Pa	aid Caregivers I	Helped with Rou	utine Health Ca	re in Recent T	wo Weeks ^d						
Very	92.2	74.7	17.5***	86.5	80.9	5.6	91.8	79.3	12.5***			
satisfied ^{b,e}			(.000)			(.153)			(.007)			
Dis-	1.4	13.4	-12.0***	1.9	1.7	0.2	0.0	2.7	-2.7*			
satisfied ^e			(.000)			(.889)			(.069)			
How Satisfied v	vith Ability to G	et Help with Tra	ansportation Wh	nen Needed								
Very	72.2	42.5	29.7***	54.3	39.9	14.4***	69.6	55.8	13.7***			
satisfied			(.000)			(.001)			(.001)			
Dis-	12.0	32.3	-20.3***	20.4	30.7	-10.3***	13.4	19.8	-6.4**			
satisfied			(.000)			(.005)			(.040)			

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003.

NOTE: Means were predicted using logit models. Sample sizes for some variables in this model were up to 56 percent smaller because of differences in item nonresponse and skip patterns.

a.

b.

c. d.

Daily living activities include eating, dressing, toileting, transferring, and bathing. Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in the model. Help doing things around the house/community does not include help with transportation. Routine health care activities include help with medications, checking blood pressure, and doing exercises. Some impacts could not be estimated with the logit model. Results presented for one or more states are the unadjusted means and e. treatment-control differences.

*Significantly different from zero at the .10 level, two-tailed test. **Significantly different from zero at the .05 level, two-tailed test. ***Significantly different from zero at the .01 level, two-tailed test.

TABLI	E 17. Estimat	ted Effects o	f Cash and C	Counseling o	n Satisfacti	on with Car	e Arrangeme	ents and with	Life
Outcome	Ar	kansas (n = 40	09)	Noneid	ieriy Jersev (n = !	558)	F	lorida (n = 564	1)
	Predicted Treatment Group	Predicted Control Group	Estimated	Predicted Treatment Group	Predicted Control Group	Estimated	Predicted Treatment Group	Predicted Control Group	Estimated
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect
How Satisfied y	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)
Verv			29.2***	51.9	35.0	16 9***	68.2	48.0	20.2***
satisfied	71.0	41.5	(.000)	51.5	33.0	(.000)	00.2	40.0	(.000)
Dis-	6.0	31.4	-25.4***	14.1	27.8	-13.7***	6.0	18.0	-12.1***
satisfied			(.000)			(.000)			(.000)
How Satisfied v	vith the Way Sp	pending Life Th	ese Days						
Very	43.4	22.9	20.5***	37.5	21.0	16.5***	63.5	50.2	13.3***
satisfied			(.000)			(.000)			(.001)
Dis-	24.1	46.9	-22.7***	31.0	50.4	-19.4***	12.5	23.3	-10.8***
satisfied			(.000)			(.000)			(.000)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003. **NOTES:** Means were predicted using logit models.

Includes arrangements for unpaid and paid help with personal care, activities around the house and community, routine health care, a. community services, transportation, and for use of care-related equipment.

*Significantly different from zero at the .10 level, two-tailed test. **Significantly different from zero at the .05 level, two-tailed test. ***Significantly different from zero at the .01 level, two-tailed test.

	TABLE	E 18. Estimat	ed Effects o	f Cash and C Noneld	ounseling (on Adverse	Health Outco	omes	
Outcome	Ar	kansas (n = 4	52)	New	Jersev (n = (668)	F	lorida (n = 808	3)
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
			Ad	verse Events i	in Past Month	1	=		
Fell	28.4	28.7	-0.4 (.931)	18.7	28.0	-9.3*** (.004)	14.5	17.5	-3.0 (.235)
Saw a Doctor Because of a Fall ^a	4.4	4.1	0.3 (.849)	5.4	7.9	-2.5 (.185)	2.5	6.1	-3.6** (.020)
Saw a Doctor Because of a Cut, Burn, or Scald ^b	1.3	4.0	-2.7* (.070)	4.5	4.6	-0.2 (.926)	2.4	3.3	-0.9 (.425)
Was Injured While Receiving Paid Help ^b	0.9	2.3	-1.4 (.221)	2.7	4.4	-1.6 (.256)	4.0	3.6	0.4 (.779)
			Hea	alth Problems	in Past Mont	h	•	•	
Shortness of Breath Developed or Worsened	29.8	39.7	-10.0** (.016)	33.9	41.3	-7.5** (.023)	8.9	9.6	-0.7 (.710)
Had a Respiratory Infection	31.4	32.1	-0.7 (.872)	24.9	32.2	-7.3** (.028)	18.0	16.0	2.0 (.439)
Contractures Developed or Worsened	26.0	25.2	0.8 (.826)	24.5	28.1	-3.7 (.269)	9.0	14.0	-5.0** (.021)
Had a Urinary Tract Infection	19.4	21.6	-2.2 (.560)	16.6	19.4	-2.8 (.329)	7.7	11.7	-4.0** (.043)
Bedsores Developed or Worsened ^a	5.9	12.6	-6.7** (.012)	9.0	13.0	-4.1* (.094)	4.1	5.9	-1.8 (.252)
			-	General Heal	Ith Status	-	-	-	
Current Health is Poor Rela- tive to Peers ^a	56.4	53.5	2.9 (.476)	41.2	46.9	-5.7* (.072)	13.3	17.7	-4.3** (.040)
Spent Night in Hospital or Nursing Home in Past Two Months	16.6	15.9	0.7 (.842)	18.0	23.6	-5.5* (.061)	7.7	8.2	-0.5 (.782)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003.

NOTES: Means were predicted using logit models. Sample sizes for some variables in this table were up to 4 percent smaller because of differences in item nonresponse and skip patterns.

a.

Effects were estimated by pooling the two age groups and including an age*treatment interaction term in the model. Impacts could not be estimated with the logit model. Results presented are the unadjusted means and treatment-control differences. b.

*Significantly different from zero at the .10 level, two-tailed test. **Significantly different from zero at the .05 level, two-tailed test. ***Significantly different from zero at the .01 level, two-tailed test.

Elderly Adults

While people with disabilities have long argued for greater control over the care they receive, some advocates for the elderly have been concerned that frail older individuals may not be able to manage their own care effectively and safely, and may be at risk for elder abuse. Cash and Counseling tested this assumption by offering the program to adults with disabilities in Arkansas and New Jersey who were age 65 or older at the time of enrollment, and to frail adults in Florida who were age 60 or older when they enrolled.

We found that, in general, the effects on the use of personal care and satisfaction with care for the elderly were similar to, though slightly lesser than, the effects for the nonelderly in Arkansas and New Jersey; but we found few effects on both elderly and nonelderly adults in Florida. The lack of significant effects is attributed to the fact that only 59 percent of nonelderly, and only 43 percent of elderly, treatment group members in Florida had started receiving their monthly allowance by the time of the nine month interview, as Table 6 illustrates.

Use of PCS. There were no significant differences in the percentage of elderly adults still living in the community at nine months. Similar to the findings for the nonelderly adults, elderly Cash and Counseling treatment group members were significantly more likely than elderly controls to be receiving paid assistance with PCS in Arkansas and New Jersey (Table 19). However, we found only a small and statistically insignificant treatment-control difference in Florida. The results across states differed because only 80 percent of the controls in Arkansas and New Jersey received paid assistance at nine months, whereas 91 percent of controls in Florida did.

As was the case for the nonelderly control group in Arkansas, a large disparity among the elderly controls in Arkansas existed between those who had been receiving personal assistance at the time of enrollment and those who had not been receiving such assistance. Among those already receiving services at baseline, 89 percent were receiving paid assistance at nine months, whereas only 47 percent of those new to such services were receiving paid assistance at nine months.

No clear pattern emerged from our followup questions of elderly control group members in all three states who reported no paid caregivers at nine months. Some reported having had no paid care in the previous nine months; of these, some had tried to obtain such care while others had not. Still others reported that they had had paid care at some point in the previous nine months but were no longer eligible for such care. And some reported that the agency was unable or unwilling to provide such care.

Among the elderly receiving an allowance at the time of the followup survey, the proportion of treatment group members hiring relatives varied widely, ranging from 62 percent in Florida to 79 percent in Arkansas (Table 20). In Arkansas and New Jersey, among the beneficiaries who used the monthly allowance to hire a caregiver, slightly more than half (57 percent) hired their child, about one-fourth hired another relative, and

the remaining fourth hired only nonrelatives. In Florida, slightly fewer than half the beneficiaries (46 percent) hired their child with the monthly allowance, one-fourth hired another relative (including a spouse), and 38 percent hired only nonrelatives. (Recall that the sum of percentages can be greater than 100 percent, because consumers could hire more than one type of caregiver.)

TABLE	19. Estimate	ed Effects of	Cash and Co Assista	ounseling on ance During	Likelihood Past Two W	of Living in /eeks	the Commu	nity and Rec	eiving
				Elder	rly				
Outcome	Ark	ansas (n = 1,2)	266)	New Jersey (n = 783)			F	lorida (n = 736	5)
	Treatment Group Mean (Percent)	Control Group Mean (Percent)	Estimated Effect (p-value)	Treatment Group Mean (Percent)	Control Group Mean (Percent)	Estimated Effect (p-value)	Treatment Group Mean (Percent)	Control Group Mean (Percent)	Estimated Effect (p-value)
Lived in the Community ^{a,b}	86.1	87.8	-1.7 (.354)	91.3	92.3	-1.0 (.610)	91.2	91.4	-0.2 (.923)
Of Those Living	g in the Commu	unity							
Received paid assistance ^a	94.2	78.8	15.4*** (.000)	93.9	81.9	12.0*** (.000)	94.0	91.2	2.8 (.176)
Received unpaid as- sistance ^{a,b}	93.7	90.5	3.2* (.067)	88.8	91.7	-2.9 (.139)	94.3	92.4	1.9 (.328)
Among Those	with Paid Care								
Had mul- tiple paid caregivers	39.7	36.3	3.4 (.264)	22.0	28.3	-6.3* (.068)	48.1	41.6	6.5* (.094)
Had paid visiting caregivers	74.9	98.1	-23.2*** (.000)	75.1	99.6	-24.5*** (.000)	86.9	97.5	-10.6*** (.000)
Had paid live-in caregivers	37.9	3.4	34.5*** (.000)	29.8	0.8	29.1*** (.000)	27.8	11.1	16.7*** (.000)
SOURCE: MP 2003 for New J	R's nine month ersey, and Mar	evaluation interch 2001 and M	rview, conducte ay 2003 for Flo	ed between Sep rida.	otember 1999	and March 200	02 for Arkansas	, August 2000 a	and June

NOTES: Means were predicted using logit models. The samples used for Arkansas and New Jersey included individuals ages 65 and older. The sample used for Florida included individuals ages 60 and older.

a. Effects estimated by pooling the two age groups and including an age*treatment status interaction term in the model.

b. Effects for Florida were estimated using a simple t-test.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

As with the nonelderly sample, virtually all elderly beneficiaries who were receiving the allowance at nine months also had a paid caregiver at that time; however, among those with a paid caregiver at nine months, many were not receiving the allowance. In Arkansas, about one- quarter of those with a paid caregiver were not receiving the allowance at nine months; in New Jersey, about one-third of those with paid caregivers were not receiving the allowance; and in Florida, more than half of those with paid caregivers were not receiving the allowance. Consequently, in all three states, many of the responses to questions about the satisfaction with paid care in the treatment group actually referred to agency-provided care rather than care purchased with the monthly allowance.

Cash and Counseling had essentially no effect on the time of day or week that caregivers provided assistance to elderly beneficiaries in all three states. In Arkansas, those in the treatment group were slightly more likely than controls to receive paid assistance with PCS on weekday evenings. No significant treatment-control differences

were found in the percentage receiving care early on weekday mornings, or on weekends, in any of the three states (Table 21).

Impacts on the total hours of PCS care for elderly beneficiaries were not consistent across the three states (Table 22; Appendix Table A.8). In Arkansas and New Jersey, the number of hours of paid care were significantly higher for treatment group members than for controls (about five hours for control group members in Arkansas and eight hours for those in New Jersey) during the two-week period prior to the followup interview; the treatment group in Florida, however, actually received slightly *fewer* hours of paid care than the control group. The number of hours of unpaid care were lower for treatment group members in all three states, by roughly the same amount (14-18 hours). While the higher number of paid hours mostly offset the fewer number of unpaid hours in Arkansas and New Jersey (as it did for all three states among the nonelderly), in Florida there were significantly fewer overall hours of care for treatment group members during that two-week period.

TABLE 20. Who Did Treatment	Group Membe	ers Hire?							
(Percentages)									
		New							
Outcome	Arkansas	Jersey	Florida						
Percent of Those Receiving Paid Care Who Received Allowance at Nine Months	74.4	65.2	41.4						
Percent of Those Receiving Allowance at Nine	96.7	99.1	98.5						
Months Who Received Paid Care									
Among Those Receiving Allowance at Nine Months, Had a Paid Caregiver Who Is Their:									
Spouse	0.0	0.9	5.3						
Child	56.7	56.8	45.9						
Parent	0.3	0.4	0.0						
Other relative	24.0	21.2	21.1						
Had Only Unrelated Paid Caregivers	20.9	24.7	38.4						
Sample Size	333	227	133						
SOURCE: MPR's nine month evaluation interview, of	conducted betw	een Septembe	er 1999 and						
June 2003. Sample is restricted to those with one or	more paid car	egivers at nine	months.						
Percentages sum to greater than 100 percent becau	se consumers of	could hire more	e than one						
type of caregiver. A small number of consumers res	iding in group h	nomes are excl	uded from						
this table.									

TABLE	21. Estimate	ed Effects of	Cash and Co	ounseling on	the Timing	of Care Red	ceived During	g Past Two V	Veeks
				Elder	rly			-	
	Ark	ansas (n = 1,2	265)	New	Jersey (n =)	783)	F	lorida (n = 736	6)
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Received Care	giver Assistanc	e:							
Early week- day morn- ings (before 8 a.m.)	57.8	56.0	1.8 (.498)	51.4	55.8	-4.4 (.174)	54.8	59.6	-4.8 (.133)
On weekday evenings (after 6 p.m.)	73.2	68.3	5.0** (.046)	72.3	73.9	-1.6 (.548)	75.4	73.3	2.2 (.445)
On weekends	78.2	76.2	1.9 (.406)	82.9	81.8	1.1 (.657)	83.5	80.0	3.5 (.190)
On weekday mornings/ evenings or on weekends	80.2	78.2	1.9 (.392)	84.9	83.3	1.5 (.536)	85.2	82.4	2.8 (.286)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and March 2002 for Arkansas; March 2001 and May 2003 for Florida; August 2000 and June 2003 for New Jersey.

NOTES: Means were predicted using logit models. In each state, no more than five cases were lost to item nonresponse for any of these outcomes.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

TABLE	22. Estimate	ed Effects of	Cash and C	ounseling or Elder	n the Hours rly	of Care Rec	eived During	g Past Two V	Veeks
Outcome	Ark	ansas (n = 1,1	11)	New	/ Jersey (n =	680)	F	lorida (n = 619	9)
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Total Hours Paid and Unpaid Care	124.0	133.3	-9.4 (.185)	133.2	142.9	-9.7 (.283)	139.9	158.4	-18.6** (.042)
Paid hours	22.7	18.2	4.5*** (.001)	39.1	31.2	7.9*** (.000)	28.0	32.9	-4.9 (.140)
Unpaid hours	101.3	115.1	-13.8** (.036)	94.2	111.7	-17.6** (.034)	111.8	125.6	-13.7 (.109)
Total (Paid and	Unpaid) Hours	Received From	m:						
Live-in caregiver for the individual	39.5	40.7	-1.2 (.703)	40.3	40.6	-0.3 (.936)	49.6	53.9	-4.3 (.324)
Live-in caregiver for household	54.0	54.7	-0.8 (.836)	49.2	50.3	-1.1 (.802)	56.2	63.6	-7.4 (.134)
Visiting caregiver	30.5 D'a nina manth	38.0	-7.4** (.018)	43.8	52.0	-8.3** (.037)	34.0	40.9	-6.9* (.087)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003

NOTES: Means were predicted using ordinary least squares regression models. This analysis includes only those with complete data for each component of total hours (about 90 percent of the sample for each state).

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

In Arkansas and Florida, we found no statistically significant treatment-control differences in the proportion of elderly sample members using their allowances either to purchase equipment or to modify their home or car in order to better accommodate their disability (Table 23). In New Jersey, however, elderly treatment group members were significantly more likely to obtain special equipment for meal preparation and housekeeping, less likely to repair equipment that they already had, and more likely to

make any of these modifications or purchases. We also observed no impacts related to the types of assistance received, such as help with eating, transferring in and out of bed, toileting, other personal care, shopping, meal preparation, transportation, and "other things around the house or community." Of the 12 measures examined for each state, only one significant treatment-control difference was observed in Arkansas (assistance with routine health care), only one in Florida (assistance with other things around the house and community), and none in New Jersey (Appendix Table A.9). Thus these differences were probably owing to chance.

TABLE 23	. Estimated	Effects of Ca	sh and Cour	nseling on He	ome Modifie	cations and	Equipment F	Purchases or	Repairs
	Elderly								
Outcome	Ark	ansas (n = 1,2	259)	New	Jersey (n =)	778)	F	⁻ lorida (n = 727	7)
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Since Enrollme	nt:								
Modified house	28.0	25.0	3.0 (.223)	17.7	14.2	3.5 (.168)	28.2	25.2	3.0 (.356)
Modified car or van ^a	3.6	2.5	1.1 (.299)	4.6	6.8	-2.2 (.271)	4.9	4.7	0.2 (.895)
Obtained special equipment for meal preparation or house- keeping	12.7	12.9	-0.2 (.901)	19.0	12.3	6.7** (.012)	16.8	18.1	-1.3 (.637)
Obtained equipment to help with personal activities/ communica- tion	28.3	31.2	-2.8 (.263)	26.4	25.1	1.3 (.686)	29.1	31.3	-2.2 (.506)
Repaired equipment used to help client	12.3	13.1	-0.8 (.665)	7.8	12.4	-4.5** (.039)	19.1	16.6	2.5 (.381)
Modified home or vehicle or purchased any equip- ment or supplies	55.0	54.5	0.5 (.855)	47.4	42.6	4.8** (.039)	78.2	81.1	-2.9 (.300)
NOTES: Mean	k s nine month is were predicte	evaluation inte	odels. Because	ea between Sep e of slight differ	ences in item	and June 2003	s. sample sizes fo	r some outcom	es are

NOTES: Means were predicted using logit models. Because of slight differences in item nonresponse, sample sizes for some outcomes are smaller than the numbers given here by up to 12 cases.

a. Effects were estimated by pooling the two age groups and including an age*treatment interaction term in the model in Arkansas. Effects were estimated for New Jersey using a simple t-test.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

Cash and Counseling also seemed to have little or no impact in any of the three states on the percentage of elderly beneficiaries using other types of services, such as attending adult day care, receiving home-delivered meals, and using transportation services (Appendix Table A.10). Of the eight measures examined, we found statistically significant treatment-control differences for only one or two in each state. Treatment group members in Florida were significantly and substantially less likely than controls to use adult day care centers or to receive home-delivered meals.

Quality of PCS. While a substantial number of elderly beneficiaries in both groups reported having unmet needs, treatment group members were significantly less likely than controls to do so (Table 24). The elderly in New Jersey showed the largest impacts of Cash and Counseling in reducing unmet needs, particularly needs related to activities of daily living, household activities, transportation, and routine health care at home. Arkansas saw significant impacts in reducing unmet needs related only to household activities and transportation. Just one type of unmet need (help with household activities) was found to have been significantly impacted for the elderly in Florida.

Elderly treatment group members in Arkansas and New Jersey had significantly fewer problems with their paid caregivers than did those in the control group (Table 25). In these states, elderly treatment group members were much more likely than controls to report that their paid caregivers always completed tasks and came to work as scheduled. Furthermore, in Arkansas, treatment group members were far more likely to report that their caregivers never arrived late or left early. In Arkansas and New Jersey, the treatment group also was significantly and substantially more likely to be satisfied with the times of day or week that their paid caregivers came to work and, in New Jersey, felt that they could easily change the schedule if necessary. No significant findings were found along these lines for the elderly in Florida, perhaps reflecting the low proportion of treatment group consumers actually receiving the allowance in that state.

		TABLE 24. E	stimated Eff	ects of Cash	and Couns	seling on Un	met Needs			
				Elder	rly					
Outcome	Ark	ansas (n = 1,0	48)	New	Jersey (n = 0	680)	F	lorida (n = 625	5)	
	Predicted	Predicted		Predicted	Predicted		Predicted	Predicted		
	Treatment	Control		Treatment	Control		Treatment	Control		
	Group	Group	Estimated	Group	Group	Estimated	Group	Group	Estimated	
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect	
	(Percent)	(Percent)								
Has an Unmet	Need for Help v	with:								
Daily living	35.9	36.5	-0.7	44.1	57.7	-13.7***	42.8	46.5	-3.7	
activities ^a			(.823)			(.000)			(.336)	
Household	38.1	47.2	-9.1***	51.0	67.5	-16.5***	47.2	53.9	-6.7*	
activities ^b			(.003)			(.000)			(.085)	
Transporta-	29.0	36.5	-7.5***	38.9	53.8	-14.9***	39.7	41.8	-2.1	
tion ^c			(.009)			(.000)			(.560)	
Routine	29.2	32.3	-3.1	35.1	46.7	-11.6***	35.1	36.9	-1.8	
health care ^d			(.285)			(.001)			(.626)	

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003.

NOTES: Means were predicted using logit models. Sample sizes for some variables in this table were up to 16 percent smaller because of differences in item nonresponse and skip patterns.

a. Daily living activities include eating, dressing, toileting, transferring, and bathing.

b. Household activities include meal preparation, laundry, housework, and yard work.

c. Transportation includes trips to and from a doctor's office, shopping, school, work, and recreational activities.

d. Routine health care includes help with medications, checking blood pressure, and doing exercises.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

TABLE 25	. Estimated E	Effects of Ca	sh and Coun	seling on Sa	tisfaction v	vith Paid Ca	regivers' Rel	iability and S	Schedule
	Elderly								
Outcome	Ar	kansas (n = 8	52)	New	Jersey (n =	576)	F	lorida (n = 519	
	Predicted Treatment Group Mean	Predicted Control Group Mean	Estimated Effect	Predicted Treatment Group Mean	Predicted Control Group Mean	Estimated Effect	Predicted Treatment Group Mean	Predicted Control Group Mean	Estimated Effect
Completed Tas	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)
Always	65.8	47.2	18.7*** (.000)	66.3	50.5	15.8*** (.000)	45.2	48.8	-3.5 (.385)
Usually/ sometimes/ rarely	15.4	36.2	-20.9*** (.000)	21.3	36.7	-15.4*** (.000)	28.8	32.1	-3.3 (.397)
Arrived Late or	Left Early								
Never	56.3	36.0	20.3*** (.000)	54.1	46.1	8.0* (.055)	40.9	41.4	-0.6 (.891)
Often	9.4	19.3	-9.8*** (.000)	15.8	19.7	-3.9 (.245)	19.2	18.2	1.1 (.757)
Did Not Come as Scheduled ^b	17.7	30.1	-12.4*** (.000)	9.7	18.0	-8.3*** (.006)	20.9	20.1	0.8 (.824)
Satisfaction wit	h Caregivers' S	ichedule ^b							
Very satisfied	82.9	68.7	14.2*** (.000)	68.9	54.1	14.8*** (.001)	66.0	61.0	5.0 (.260)
Dis- satisfied ^c	5.1	8.1	-3.1 (.102)	9.4	18.1	-8.7*** (.007)	6.0	8.5	-2.5 (.317)
Could easily change schedule	47.8	45.1	2.6 (.497)	47.3	35.5	11.8** (.010)	35.4	39.9	-4.5 (.345)
SOURCE: MP NOTES: Mean differences in it	R's nine month s were predicte em nonrespons	evaluation inte ed using logit m	rview, conducte odels. Sample rerns	ed between Sep sizes for some	tember 1999 variables in th	and June 2003 his table were u	3. up to 21 percen	t smaller becau	se of

This measure is derived from a survey question with a five-point scale. The binary variables shown here represent the most favorable rating a. (always) and a less favorable one (usually, sometimes, or rarely). The intermediate rating (almost always) is not presented. Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in the model.

b

Impacts could not be estimated with the logit model. Results presented are the unadjusted means and treatment-control differences. C.

*Significantly different from zero at the .10 level, two-tailed test.

**Significantly different from zero at the .05 level, two-tailed test.

***Significantly different from zero at the .01 level, two-tailed test.

In all three states, elderly beneficiaries in the treatment group were significantly more likely than controls to report that they were very satisfied with their relationship with their paid caregivers (Table 26). Furthermore, treatment group members in Arkansas and New Jersey were significantly less likely to report that these caregivers had neglected them and, in Arkansas, that caregivers had taken something from them without asking.

With regard to elderly enrollees' satisfaction with specific types of care, the Cash and Counseling group reported significantly greater satisfaction than controls for all the measures examined in Arkansas and New Jersey but not in Florida (Table 27). The treatment group members were significantly more likely than controls to report that they were very satisfied with (and less likely to report being dissatisfied with) the way their paid caregivers helped with activities of daily living, things around the house and community, routine health care, and the ability to obtain transportation. These differences were somewhat larger in New Jersey than in Arkansas. No significant treatment-control differences in satisfaction with specific types of care were found in Florida.

In Arkansas and New Jersey, treatment group members were significantly more likely to have reported being very satisfied with their overall care arrangements and

significantly less likely to have reported that they were dissatisfied (Table 28). In Arkansas, 68 percent of the elderly treatment group members reported that they were very satisfied, whereas only 54 percent of the control group did so. In New Jersey, 57 percent of treatment group members reported being very satisfied compared to 37 percent of those in the control group. In Florida, the difference between the groups was positive but much smaller and not statistically significant. Furthermore, in all three states, the treatment group members were significantly more likely than controls to report being very satisfied with how they were spending their lives these days and less likely to report being dissatisfied. The differences in the percent who were very satisfied were large (about 20 percentage points) in Arkansas and New Jersey and smaller but still significant in Florida.

Examining the impact of Cash and Counseling on adverse health outcomes and injuries, we found no measures for which the incidence of problems was significantly greater for the treatment group and a few measures for which the treatment group was significantly *less* likely to report such problems (Table 29). In New Jersey, the elderly treatment group members were significantly less likely to report having fallen and having problems with contractures. In Florida, the treatment group members were significantly less likely to report problems with shortness of breath. No significant impacts were found in Arkansas on these dimensions.

TABLE 26.	IABLE 26. Estimated Effects of Cash and Counseling on Quality of Care Provided by Paid Caregiver and Relationship Elderly								
Outcome	Ar	kansas (n = 94	46)	New	Jersey (n = 0	637)	F	lorida (n = 592	2)
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Satisfaction wit	h relationship ^a								
Very satisfied	92.2	82.8	9.4*** (.000)	87.2	72.8	14.4*** (.000)	89.5	81.8	7.7** (.023)
Dis- satisfied ^b	0.0	1.2	-1.2** (.021)	1.6	4.8	-3.2** (.047)	0.9	1.7	-0.8 (.470)
Paid Caregiver	S:								
Neglected client	10.9	26.2	-15.3*** (.000)	15.7	22.7	-7.0** (.032)	24.0	22.8	1.2 (.732)
Were rude or disre- spectful	11.8	16.4	-4.7* (.051)	15.4	20.0	-4.6 (.130)	15.6	19.7	-4.1 (.228)
Took something without asking ^{a,b}	4.1	7.7	-3.6** (.033)	5.5	5.5	0.0 (.962)	4.2	6.9	-2.7 (.152)
Gave unwanted help ^a	30.8	34.2	-3.4 (.898)	33.0	36.9	-3.9 (.306)	26.0	31.4	-5.4 (.171)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003. **NOTES:** Means were predicted using logit models. Sample sizes for some variables in this table were up to 25 percent smaller because of differences in item nonresponse and skip patterns.

a. Effects were estimated by pooling the two age groups and including an age*treatment interaction term in the model.
b. Some impacts could not be estimated with the logit model. Results presented for one or more states are the unadjusted means and treatment-control differences.

*Significantly different from zero at the .10 level, two-tailed test.

Significantly different from zero at the .05 level, two-tailed test. *Significantly different from zero at the .01 level, two-tailed test.

TABLE 27.	Estimated E	ffects of Cas	sh and Coun	seling on Pa	id Caregive	r Performan	ce and Trans	sportation As	ssistance
	Elderly								
Outcome	Ar	kansas (n = 88	31)	New	Jersey (n =	566)	F	lorida (n = 464	4)
	Predicted	Predicted		Predicted	Predicted		Predicted	Predicted	
	Treatment	Control		Treatment	Control		Treatment	Control	
	Group	Group	Estimated	Group	Group	Estimated	Group	Group	Estimated
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect
	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)
How Satisfied v	vith the Way Pa	aid Caregivers I	lelped with Dai	ly Living Activit	es in Recent	Two Weeks ^a	•	•	•
Very	84.6	75.7	8.9***	79.9	60.0	19.9***	73.5	69.1	4.4
satisfied			(.003)			(.000)			(.355)
Dis-	1.9	4.8	-2.8**	3.0	7.2	-4.1**	4.5	5.6	-1.1
satisfied ^e			(.049)			(.046)			(.632)
How Satisfied v	vith the Way Pa	aid Caregivers I	Helped Around	the House/Corr	munity in Rec	cent Two Week	۲s		
Very	87.3	68.3	19.0***	78.9	58.8	20.1***	70.4	66.1	4.3
satisfied			(.000)			(.000)			(.351)
Dis-	2.8	7.6	-4.7***	2.1	9.1	-7.1***	5.3	6.2	-0.8
satisfied ^e			(.007)			(.001)			(.719)
How Satisfied v	vith the Way Pa	aid Caregivers I	Helped with Ro	utine Health Ca	re in Recent T	wo Weeks ^d			
Very	92.1	78.3	13.8***	83.5	66.6	16.9***	84.2	76.0	8.2
satisfied ^{b,e}			(.000)			(.001)			(.144)
Dis-	1.0	2.5	-1.5	1.0	3.6	-2.6*	3.0	3.9	-0.9
satisfied ^e			(.212)			(.080)			(.730)
How Satisfied v	vith Ability to G	et Help with Tra	ansportation Wh	nen Needed					
Very	73.7	63.6	10.1***	55.0	41.7	13.3***	52.4	52.3	0.1
satisfied			(.001)			(.001)			(.989)
Dis-	7.8	13.8	-6.0***	13.5	29.5	-16.1***	14.5	20.3	-5.8
satisfied			(.005)			(.000)			(.102)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003.

NOTE: Means were predicted using logit models. Sample sizes for some variables in this model were up to 56 percent smaller because of differences in item nonresponse and skip patterns.

a.

b.

c. d.

Daily living activities include eating, dressing, toileting, transferring, and bathing. Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in the model. Help doing things around the house/community does not include help with transportation. Routine health care activities include help with medications, checking blood pressure, and doing exercises. Impacts could not be estimated with the logit model. Results presented are the unadjusted means and treatment-control differences. e.

*Significantly different from zero at the .10 level, two-tailed test. **Significantly different from zero at the .05 level, two-tailed test. ***Significantly different from zero at the .01 level, two-tailed test.

TABL	E 28. Estimat	ted Effects o	f Cash and C	counseling o	n Satisfacti	on with Car	e Arrangeme	nts and with	Life
				Elder	rly				
Outcome	Ar	kansas (n = 87	72)	New	/ Jersey (n =	574)	F	lorida (n = 491)
	Predicted	Predicted		Predicted	Predicted		Predicted	Predicted	
	Treatment	Control		Treatment	Control		Treatment	Control	
	Group	Group	Estimated	Group	Group	Estimated	Group	Group	Estimated
	Mean	Mean	Effect	Mean	Mean	Effect	Mean	Mean	Effect
	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)	(Percent)	(Percent)	(p-value)
How Satisfied v	vith Overall Car	e Arrangement	S ^a			-			-
Very	68.3	54.0	14.3***	56.5	36.6	19.9***	50.0	46.9	3.1
satisfied			(.000)			(.000)			(.463)
Dis-	6.2	10.4	-4.3**	9.0	21.5	-12.5***	11.5	14.0	-2.5
satisfied			(.026)			(.000)			(.394)
How Satisfied v	vith the Way Sp	ending Life Th	ese Days						
Very	55.5	37.0	18.5***	47.1	25.3	21.9***	35.9	27.9	8.0**
satisfied			(.000)			(.000)			(.049)
Dis-	17.0	25.3	-8.3***	19.7	36.2	-16.5***	31.6	33.2	-1.6
satisfied			(.004)			(.000)			(.678)
SOURCE MP	R's nine month	evaluation inte	rview conducte	d between Ser	tember 1999	and June 2003			

NOTE: Means were predicted using logit models.

Includes arrangements for unpaid and paid help with personal care, activities around the house and community, routine health care, a. community services, transportation, and for use of care-related equipment.

*Significantly different from zero at the .10 level, two-tailed test. **Significantly different from zero at the .05 level, two-tailed test. **Significantly different from zero at the .01 level, two-tailed test.

	TABLE 29. Estimated Effects of Cash and Counseling on Adverse Health Outcomes								
Outcome	Ark	ansas (n = 1.1)	64)	New	Jersev (n =)	742)	F	lorida (n = 696	5)
	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	, Estimated Effect (p-value)
Foll	10.0	19.6	A0	12.0	20.4	7 0***	17.5	10.7	2.2
reii	19.0	10.0	(.869)	13.2	20.4	(.009)	17.5	19.7	(.468)
Saw a Doctor Because of a Fall ^a	5.4	4.6	0.7 (.587)	4.3	6.1	-1.7 (.289)	3.9	6.8	-2.9 (.142)
Saw a Doctor Because of a Cut, Burn, or Scald ^b	1.4	1.9	-0.5 (.479)	1.6	2.2	-0.6 (.524)	2.9	2.7	0.2 (.882)
Was Injured While Receiving Paid Help ^b	1.8	1.4	0.3 (.673)	1.1	2.6	-1.5 (.133)	1.5	3.6	-2.2* (.070)
			Hea	alth Problems	in Past Mont	h			
Shortness of Breath Developed or Worsened	32.3	36.1	-3.8 (.161)	33.7	39.6	-5.9* (.089)	26.1	35.0	-8.8*** (.009)
Had a Respiratory Infection	23.3	25.3	-2.1 (.404)	26.8	28.4	-1.6 (.617)	20.7	24.7	-4.0 (.216)
Contractures Developed or Worsened	15.9	19.7	-3.9* (.089)	17.5	27.1	-9.6*** (.002)	20.0	21.9	-2.0 (534)
Had a Urinary Tract Infection	18.2	21.0	-2.8 (.230)	15.7	15.8	-0.1 (.966)	19.5	21.5	-2.0 (.516)
Bedsores Developed or Worsened ^a	7.5	6.8	0.7 (.640)	7.2	7.1	0.1 (.970)	7.9	9.3	-1.4 (.511)
				General Heal	Ith Status	-	-	-	
Current Health is Poor Rela- tive to Peers ^a	48.0	50.0	-2.0 (.462)	37.9	43.8	-5.9* (.071)	44.7	42.8	1.9 (.573)
Spent Night in Hospital or Nursing Home in Past Two Months	25.2	23.7	1.5 (.551)	16.0	17.7	-1.7 (.536)	19.0	20.7	-1.7 (.560)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003.

NOTES: Means were predicted using logit models. Sample sizes for some variables in this table were up to 6 percent smaller because of differences in item nonresponse and skip patterns.

a.

Effects were estimated by pooling the two age groups and including an age*treatment interaction term in the model. Impacts could not be estimated with the logit model. Results presented are the unadjusted means and treatment-control differences. b.

*Significantly different from zero at the .10 level, two-tailed test. **Significantly different from zero at the .05 level, two-tailed test. ***Significantly different from zero at the .01 level, two-tailed test.

DISCUSSION

Cash and Counseling had a statistically significant impact on the use and quality of care in all three states, although nearly all the impacts were stronger for Arkansas and New Jersey than for Florida. While the impacts were generally greater for the nonelderly than for the elderly in all three states, we did find that the program worked well for the elderly on many dimensions and, most important, on overall satisfaction with the quality of life. We found no outcomes for which the elderly fared worse under Cash and Counseling in any state. This finding should address some of the concerns about the appropriateness of the consumer-directed model for the elderly or for those who are cognitively impaired.

Arkansas and New Jersey. In both Arkansas and New Jersey, Cash and Counseling had a significant impact on the likelihood of receiving paid assistance at nine months after enrollment for both nonelderly and elderly beneficiaries. Compared to controls, nonelderly treatment group members in Arkansas had fewer total hours of care; they were also more likely to receive care during nonbusiness hours, to purchase equipment or modify their homes or vehicles, and to receive virtually all the different types of assistance they were asked about. Although the finding that treatment group members received fewer hours of care may seem at first to be a negative result, the fact that the consumers in the treatment group fared as well or better than those in the control group indicates that the needed care was provided more efficiently by the consumer-hired caregivers. Treatment-control differences on these indicators in New Jersey were generally smaller and not statistically significant. Among the elderly, the treatment group members in Arkansas were more likely than the controls to receive assistance during evening hours, but few other significant impacts on care use were found for this age group in either state.

The program was very successful in Arkansas and New Jersey. Both elderly and nonelderly treatment group members in these two states were consistently more likely than control group members to report that their paid caregivers completed their tasks and worked when they were supposed to. They were very satisfied with their relationship with their paid caregivers and less likely to report that these caregivers neglected them, were rude or disrespectful, or took something without asking. The treatment group members were less likely to report that care needs were not met and more likely to report high levels of satisfaction with both their overall care and with the way their paid caregivers provided specific types of care.

Our findings should allay concerns that consumers may endanger themselves when directing their own care by hiring workers who are not qualified to perform the needed tasks or by not hiring an adequate number of caretakers. The few significant differences between the treatment and control groups on the incidence of adverse health outcomes or injuries showed that the treatment group was less likely to experience these unfavorable results. In both Arkansas and New Jersey, treatment group members were significantly more likely than control group members to report being very satisfied with the way they were spending their lives these days.

Florida. In Florida, treatment-control differences in the total hours of care, the timing of care, and the types of assistance received were the smallest of all three states. Among nonelderly beneficiaries in Florida, treatment group members had a higher likelihood of receiving paid assistance at nine months after enrollment, although the impact was smaller than that found for Arkansas and New Jersey. They also had a higher likelihood than controls of receiving care during evening hours. Among the elderly in Florida, the treatment group members received significantly fewer hours of care (paid and unpaid combined) than those in the control group. The treatment and control groups were similar on all other measures of services received.

As seen in Arkansas and New Jersey, nonelderly treatment group members in Florida were more likely than control group members to be satisfied with their care and less likely to have unmet care needs. However, among the elderly beneficiaries in Florida, the treatment group members' rates of satisfaction with care received and unmet needs were essentially the same as those of the control group. Both elderly and nonelderly treatment group members in Florida were significantly more likely than controls to report being very satisfied with the way they were spending their lives these days; however, the differences were smaller than those found in Arkansas and New Jersey. Furthermore, only among the elderly in Florida was there no difference between the treatment and control groups in terms of the percentage reporting that they were *dis*satisfied with the way they were spending their lives.

State Differences Linked to Receipt of the Monthly Allowance. Not surprisingly, this pattern of impacts on satisfaction and receipt of paid care across the three states is consistent with the differences across states and age groups in the percentage of people in the treatment group who were actually receiving the monthly allowance at the time of the nine month survey. In Arkansas, 77 percent of nonelderly community residents who responded, and 72 percent of the elderly who responded, reported receiving the allowance recently (the month of, or the month preceding, the interview). In New Jersey, 61 percent of both age groups reported receiving the allowance recently. In Florida, 54 percent of the nonelderly, and only 39 percent of the elderly, reported receiving the allowance recently.

Several differences in how the programs operated may explain the wide disparity in the proportion receiving the monthly allowance (that is, participating in the program) at nine months. The elderly program enrollees had fairly similar characteristics across the three states, and thus differences in consumer characteristics do not account for the difference in the proportion who hired a worker. Possible explanations for the difference include the following:

 In Florida and New Jersey, program applicants had to be under the care of an agency (or, in New Jersey, at least assessed by an agency) before enrolling in the Cash and Counseling program. Thus they were already receiving (or about to receive) services, making it less urgent for them to develop the spending plan that was necessary to obtain the allowance.

- In Florida, treatment group members were expected to initiate contact with their counselor to establish a spending plan, which was required before the allowance would be given. In Arkansas and New Jersey, program counselors took more initiative in getting treatment group members started.
- Elderly Florida participants may have moved there upon retirement, leaving family behind, and therefore may have had fewer relatives living nearby. Since most enrollees who did hire a worker hired relatives, it may have been more difficult for Florida treatment group members to find a worker. (However, they typically had multiple unpaid helpers and received more total hours of care than did enrollees in either Arkansas or New Jersey.)
- Consumers of waiver services in Florida received extensive formal case management services, unlike in the other two states. They may have been reluctant to accept the monthly allowance after learning that they would lose these services were they to enroll in the Cash and Counseling program. Although, under the program, counselors were to take on some of the responsibilities previously handled by case managers, this was not always communicated clearly to program participants, many of whom feared they would be "on their own." And some counselors were under the misimpression that they were to take a "hands-off" approach once the spending plan was developed.

Limitations

Although the study has certain limitations, they do not affect the validity of the findings. The randomized evaluation design helps ensure that the impact estimates are unbiased.²⁶ A primary limitation is that the study pertained to programs implemented in only three states, and thus the findings may not apply to all programs featuring consumer-directed care. Another limitation is that the findings can be generalized only to the extent that demonstration participants are representative of those who would enroll in an ongoing program. Those who volunteered for the demonstration may have been particularly dissatisfied with the traditional system or especially well suited for consumer-directed care (perhaps more proactive in their approach to acquiring needed services); those who enroll in an ongoing program might be different. Finally, estimated program effects depend, in part, on whether the local supply of home care workers in the area was adequate to meet the demand for services during the period studied. Thus the results may have been quite different had the evaluation been carried out a

²⁶ Note that a new round of Cash and Counseling II grants will not require states to randomize when completing their §1915(c) or §1115 applications.

few years later than the period studied here (when the labor market was generally tight) or in states where the labor market was tighter or looser than in these three states.

Another limitation to consider is that we did not directly observe the care provided under the Cash and Counseling program but instead relied on survey responses from beneficiaries or their proxies. Because personal care is nonmedical and the consumer is an important judge of its quality, our reliance on self-reports of satisfaction, unmet needs, adverse outcomes, and health problems is appropriate. Nonetheless it is possible that some control group members exaggerated their dissatisfaction, because they were disappointed by not being assigned to the treatment group, and that some treatment group members experienced health hazards not reflected in survey data. Direct observation would be needed to identify any such tendencies.

Related to this is the fact that certain questions were not asked of proxy respondents, especially those who were being paid to provide care to the beneficiary, when we felt that such a respondent might have a biased response to certain questions (such as level of satisfaction with the care being provided). Because this exclusion applied far more to the treatment group than the control group, impacts for these measures may not be based on statistically equivalent comparison groups. This could result in biased estimates if the control variables in our regression models did not adequately account for the influence of any preexisting differences between the two groups created by this restriction.

Findings may also be limited by our relatively short followup period. Some program effects may not persist over time, as consumers age or lose paid family caregivers. Moreover, consumers' experiences with consumer direction may have been unusually positive during the first nine months of the program because of the novelty of the service model. In that case, the strong effects might eventually diminish. On the other hand, consumers may better manage their care and become more independent over time, so their experiences might become more positive further into the program over time. And the novelty of the program during the initial months may have contributed to some confusion on the part of consumers and counselors.

These limitations notwithstanding, this analysis was based on a rigorous research design and yielded estimated program effects that were large, compelling, consistent across numerous types of measures, and widespread across subgroups. Significant differences also were seen between the treatment and control groups, even though the program effects were mitigated by the fact that many in the treatment group were not actively participating in the Cash and Counseling program when we followed up at nine months after enrollment. Overall our results provide unambiguous evidence that Cash and Counseling improved the amount and quality of paid personal assistance from the perspective of consumers, with no discernible adverse effects on safety or health.

Policy Implications

What do these results mean for states considering a move toward greater consumer direction, which the Federal Government and advocacy groups are encouraging them to do? Our analysis suggests that the program works very well for adults (both younger and older) *if* they actually receive the monthly allowance that Cash and Counseling offers. In Arkansas and New Jersey, where 60-70 percent of the treatment group were receiving their allowance and had hired a worker, the treatment group was more satisfied, reported fewer unmet needs, and experienced no greater incidence of health problems than the control group.

Consumers who are interested in self-direction may need help in finding a worker, perhaps through state-maintained worker registries. States may also need to ensure that they have an efficient process for helping people develop and implement a spending plan, and getting it approved in a timely way. Once consumers have enrolled in a new type of program such as this, extensive support may be needed to assist them through the initial period rather than waiting for them to take the initiative. Also, if states offer a significant level of case management to elderly consumers receiving agency care, the states should consider providing some of those services for consumers through counselors in their monthly allowance program and may need to ensure that the allowance is sufficient for consumers to purchase any such services not provided by the counselor. States may also need to be explicit about how consumers can fill this gap. Not offering such services when consumers are accustomed to having access to them may dampen some consumers' enthusiasm for the program, as it did in Florida.

Conclusions

Based on the findings presented here, states interested in improving the wellbeing of Medicaid beneficiaries who need PCS should consider adopting consumerdirected approaches such as Cash and Counseling. The empowerment of consumers offered by the program is consistent with the goals of federal initiatives such as the Systems Change Grants and the New Freedom Initiative. States should pay particular attention to ensure that such programs are implemented in a manner that makes certain that interested consumers receive prompt help in developing a spending plan and that the monthly allowance is available to the consumer as soon as possible. A separate report for this evaluation (Phillips et al. 2003) provides lessons for states on how best to accomplish this objective.

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APPENDIX A: PROXY RESPONDENTS

Proxies completed more than half of the baseline interviews for elderly sample members, about one-fourth of those for nonelderly sample members in Arkansas and New Jersey, and three-fourths of those for nonelderly sample members in Florida (90 percent of whom are adults with developmental disabilities). Use of proxies at the nine month followup was even greater. Sample members used proxies because of cognitive or physical impairments, or because they wanted the person who had helped them make decisions about their care to respond to the surveys. In the latter case, if we could not gently persuade sample members to respond for themselves, we asked to interview the most knowledgeable proxy.

	Percen	t of Interview	s with Proxy	Respondent	s	
	Arka	nsas	New J	ersey	Flori	da
	Age 18-64	Age 65+	Age 18-64	Age 65+	Age 18-59	Age 60+
Baseline	24.6	58.3	30.4	52.1	78.1	60.7
Survey	(n=556)	(n=1,452)	(n=817)	(n=938)	(n=914)	(n=904)
Nine Month	28.8	71.1	36.8	60.9	82.5	65.6
Survey	(n=473)	(n=1,266)	(n=682)	(n=783)	(n=811)	(n=736)

Because interviews with proxies were unavoidable, we took certain measures to mitigate bias in our analysis. During the analysis, we controlled for use of proxies at baseline (although proxy use was similar for treatment and control groups).²⁷ During the interviews with proxies, we omitted questions about consumers' unmet needs, their satisfaction with care, and their paid caregivers' performance if the proxy was also a paid caregiver (a much more common occurrence in the treatment group). We used regression analysis to compare these outcomes for self-responders versus (nonhired) proxy respondents in Arkansas. We found that treatment-control differences in satisfaction measures for sample members with proxy respondents were smaller than those found for self-respondents but were still significant. However, there was no significant treatment-control difference in unmet needs for sample members with proxy respondents, whereas such differences were significant among the self-responders. We infer from these findings that our estimates of treatment-control differences in unmet needs might be overstated to some degree; that is, treatment group outcomes might have been less positive if cases with proxies who were paid caregivers had been included.

We did not ask people living in group homes most of the questions about paid workers, because those workers would most likely be staff members of the group home and therefore inherently different from the paid workers of people living in individual residences. Not many individuals were in this situation when we interviewed them nine months after enrollment. In Arkansas, there were only two people (one nonelderly and

²⁷ We controlled for proxy at baseline rather than at followup, to avoid endogeneity. Most sample members who used proxy respondents at followup also used them at baseline.

one elderly, and both in the control group) living in group homes. In New Jersey, there were also just two individuals (one nonelderly treatment group member and one elderly control group member) residing in group homes. In Florida, there were 12 treatment group members (11 nonelderly and one elderly) and one nonelderly control group member living in group homes.

APPENDIX B: DETAILS ON SELECTED OUTCOME MEASURES

Hours of Total Assistance. The survey asked about the total hours of help provided during the past two weeks by each caregiver for up to three visiting paid caregivers, three visiting unpaid caregivers, two live-in paid caregivers, and two live-in unpaid caregivers. Separate questions were asked about the hours the caregiver spent on tasks provided solely for the individual and those provided for the entire household, such as meal preparation, laundry, and housekeeping. To determine the total hours of help provided, we summed up those hours for both the individual and the entire household, across all (paid and unpaid) visiting and live-in caregivers.

Hours of Visiting Care. We calculated the hours each visiting caregiver provided by multiplying the number of visits during the past two weeks by the reported average time spent per visit. To obtain the total hours of visiting care, we summed up the hours of all visiting caregivers.

Hours of Live-In Care. The hours of care provided by live-in caregivers is the sum of the hours each live-in caregiver provided for the individual and the hours each live-in caregiver provided for the household during the past two weeks, summed up across all live-in caregivers.²⁸

Hours of Paid Help Received. For each paid caregiver in the treatment group, the survey asked for the total number of hours of help the caregiver provided during the past two weeks and the number of those hours the caregiver was paid for. We summed the latter across paid caregivers to determine hours of paid help received for the treatment group. For paid caregivers in the control group, the survey asked only about the hours of work provided. We assumed that visiting agency workers were paid for all the help they provided to control group sample members. For the small number of

 $^{^{28}}$ An alternative way to measure hours would be to prorate the hours of household help by dividing the number of hours by the number of members of the household at baseline.

workers for the control group that lived with the consumer, we imputed the portion of total hours that were paid.²⁹

We summed up this measure across all paid caregivers to determine the hours of paid help for control group members.

Hours of Unpaid Help Received. We calculated the total hours of unpaid help received by subtracting the paid hours received from the total hours received (both measured as described above).

Receipt of Any Unpaid Care. A consumer who had any unpaid caregivers or had any paid caregivers who also provided unpaid help during the past two weeks was classified as having unpaid care. Because of the nature of the intervention, we had to determine whether a consumer had any paid caregivers who provided unpaid help somewhat differently for treatment and control group members. For treatment group members, if the number of hours a paid caregiver provided was greater than the number of hours for which that caregiver was paid, then that caregiver was defined as having provided both paid and unpaid help. Not surprisingly this was common, since paid workers were often family members or friends. Because control group members were unlikely to be able to report reliably on the unpaid hours of their agency workers, we asked simply whether a paid worker spent time helping them for which the worker would not be paid.

²⁹ Very few control group members had paid live-in caregivers. The few they had were paid by family members or another private source, were hired through Alternatives (another Medicaid waiver program in Arkansas), or worked for agencies. We imputed the paid hours of care that these live-in caregivers provided based on the fraction of total hours for which paid live-in workers for the control group were paid, as reported on the Cash and Counseling Caregiver Survey (by state and age group). According to this survey, paid workers for the control group in Arkansas who live with elderly consumers receive pay for about 20 percent of the hours of care they provided, while workers for the control group who live with non-elderly consumers are paid for about 38 percent of the hours of care they provided (45 percent for those in the Alternatives program). In Florida, paid live-in caregivers for elderly control group members reported being paid for 67 percent of the hours they worked, while those providing care to nonelderly control group members reported being paid for 56 percent of the hours worked. There were no responses to the Caregiver Survey from paid caregivers in New Jersey providing live-in care to control group members, so we applied the factors from Florida to the New Jersey cases.

APPENDIX C: IMPUTATION METHODS

An imputation procedure was used for a handful of baseline variables related to education and prior experience with work, hiring, and supervising others. When we were speaking to the consumer in the baseline interview, these questions were asked in reference to the consumer. If the consumer's representative was a proxy respondent for the baseline interview, however, we asked these questions in reference to the representative, assuming that this was the consumer's primary decision maker. (If someone else was a proxy respondent for the consumer, the questions pertained to the consumer.) To provide consistently defined variables *within* each of the three states, we imputed values as follows.³⁰

In Arkansas, our intention was to make all these responses refer to the characteristics of the consumer. To accomplish this, interviews conducted with the consumer's representative had their responses replaced with imputed values drawn from the most comparable group: from interviews conducted with a nonrepresentative proxy for a consumer who *had* a representative. In the former case, we asked about the representative's characteristics in the interview; in the latter, we asked about the consumer's characteristics. In both cases, the consumer had both a representative and a proxy respondent. For each case in which imputation was required, we selected at random a case from the "donor" group who fell into the same demographic cell defined by age group, race, and sex. The values for the set of variables in that donor's case were imputed to the case requiring imputation.

In Florida, our intention was to make all these responses refer to the primary decision maker, given that the nonelderly sample was comprised mainly of adults with developmental disabilities who typically would not be making decisions about their own care. (Too few interviews were conducted with nonrepresentative proxy respondents for consumers who had a representative, which resulted in too few "donors" under the method used for Arkansas.) To achieve this aim, the responses from interviews conducted with the consumer or a nonrepresentative proxy--for consumers who had a representative--were replaced with imputed values drawn from the most comparable group, namely, from interviews conducted with the representative as proxy. In the latter case, we asked about the representative's characteristics. In all three cases, the consumer had a representative, and it was the representative's education that we sought to represent in these situations.

³⁰ Differences in how these education and work-related variables were imputed across states make cross-state comparisons difficult, but these baseline variables were useful as control variables in the regression models.

In New Jersey, no such imputation was necessary. Representatives in New Jersey were not chosen until a consumer had been selected to be in the treatment group, after the baseline interview was completed. Therefore all responses to these questions in New Jersey consistently refer to the consumer.

APPENDIX D: TABLES

TABLE A.1. Description of Outcome Measures
In-Home Assistance from Caregivers During Past Two Weeks
Caregivers
Whether Received Assistance from Paid Caregivers (Live-In, Visiting, Any)
Whether Received Any Unpaid Care
Whether Had Multiple Paid Caregivers
Relationship of Caregiver to Client
Hours of Paid and Unpaid Assistance
Provided by Live-In Caregivers for the Household and for the Individual
Provided by Visiting Caregivers
Timing of Assistance
Before/After Business Hours
Weekends
Type of Care Received
Receipt of Types of In-Home Assistance (for example, with specific activities of daily living)
Equipment and Home Modifications Since Enrollment
Whether Consumer:
Obtained personal care supplies
Modified his or her house
Modified his or her car or van
Obtained special equipment for meal preparation or housekeeping
Obtained equipment to help with communication and personal activities
Repaired equipment
Community Services Since Enrollment
Whether Consumer:
Moved to new place with staff to help
Attended adult day care
Attended community/recreational program
Received home-delivered meals
Used transportation services to visit the doctor
Used transportation services to go other places
Was told about community services through nurse, case manager, counselor, or social worker
Had help arranging for services from family and friends
Quality Indicators
Satisfaction with Paid Caregivers' Reliability and Schedule
Whether Paid Caregiver Ever Failed to Complete Tasks in Past Nine Months
How Often Paid Caregiver Arrived Late or Left Early in Past Nine Months
Whether Visiting Paid Caregiver Did Not Come as Scheduled in Recent Two Weeks
How Satisfied with Times of Day Paid Caregiver Came in Recent Two Weeks
Whether Could Change Paid Caregiver's Schedule without Difficulty in Recent Two Weeks
Satisfaction with Paid Caregiver Performance ^a
How Satisfied with the Way Paid Caregiver Helped with Daily Living Activities in Recent Two Weeks
How Satisfied with the Way Paid Caregiver Helped Around the House/Community in Recent Two
Weeks
How Satisfied with the Way Paid Caregiver Helped with Routine Health Care in Recent Two Weeks

TABLE A.1 (continued)						
Satisfaction with Paid Caregiver Relationship and Attitude ^a						
How Satisfied with Relationship with Paid Caregivers Who Helped in Recent Two Weeks						
During Past Nine Months, Paid Caregiver:						
Neglected client						
Was rude or disrespectful						
Took money or other belongings without asking						
Gave unwanted help						
Satisfaction with Overall Care Arrangements and Transportation ^a						
How Satisfied with Overall Care Arrangements						
How Satisfied with Ability to Get Help with Transportation When Needed						
Unmet Needs for Personal Assistance ^b						
Whether Needed Help but Was Not Getting It or Needed More Help with:						
Daily living activities						
Household activities						
Transportation						
Routine health care						
Adverse Events ^c						
In Past Month:						
Was injured while receiving paid help						
Fell						
Saw a doctor because of a fall						
Saw a doctor because of cut, burn, or scald						
Health Problems ^c						
In Past Month:						
Had a urinary tract infection						
Had a respiratory infection						
Bedsores developed or worsened						
Contractures developed or worsened						
Shortness of breath developed or worsened						
General Health Status ^c						
Current Health is Poor Relative to that Of Peers						
Spent Night in Hospital or Nursing Home in Past Two Months						
Self-Care Knowledge and Behavior						
Whether Knows Enough About Chronic Conditions to Care for Them, Among Those With Chronic						
Conditions						
Whether Missed a Dose of Prescribed Medication in Past Week, Among Regular Users						
Functioning ^c						
In Recent Two Weeks:						
How difficult to bathe without help						
How difficult to get in or out of bed without help						
How difficult to use toilet without help						
Quality of Life ^d						
How Satisfied with Way Spending Life These Days						
Whether Health Problems or Lack of Assistance Limit:						
Recreational, cultural, religious or social activities						
Educational pursuits						
Ability to work for pay						
a. Adapted from Eustis et al. (1993) and Benjamin (1996).						
b. Adapted from Allen and Mor (1997).						
c. Adapted from Shaughnessy et al. (1994).						
d. Adapted from Woodill et al. (1994); Connally (1994); and Goode (1988).						

TABLE A.2. Baseline Characteristics of Respondents to the Nine Month Interview									
(Control variables) Nonelderly Adults by Evaluation Status									
	Arkansas		New Jersev		Florida				
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
Demographics									
Age in Years			1	1	1	1			
18 to 39	24.3	30.0	34.2	35.6	75.6	74.2			
40 to 64°	75.7	70.0	65.8	64.4	24.3	25.8			
Female	67.9	67.4	67.3	62.9	41.3**	49.7			
Race	07.0	C1 7	40.5	40.0	77 5	00.0			
Plack	07.2	01.7	49.5	49.2	//.S	80.2			
Other	20.1	5.0	42.7	6.8	10.0	15.6			
Of Hispanic Origin ^b	1.2	0.9	30.1	28.4	4.0 18.4*	23.8			
Language Spoken	1.2	0.5	50.1	20.4	10.4	20.0			
English	na	na	64.9	63.5	na	na			
Spanish	n.a.	n.a.	20.9	20.5	n.a.	n.a.			
Russian	n.a.	n.a.	0.9	0.9	n.a.	n.a.			
Other Language	n.a.	n.a.	2.3	3.0	n.a.	n.a.			
Living Arrangement/ Mari	tal Status								
			*						
Lives alone	39.1	39.1	34.8	33.6	8.8	8.7			
Lives with spouse	8.2	7.4	8.4	4.5	1.0	1.0			
only	50.7	50.5	50.0	00.0	00 F	00.0			
Lives with others but	52.7	53.5	56.8	62.3	90.5	90.6			
not married and lives									
with two or more									
others									
Education ^c									
8 years or fewer	21.8	27.6	22.7	25.8	5.6	4.9			
9 to 12 years (no	30.9	27.6	22.4	23.3	13.6	12.0			
diploma)									
High school diploma	25.9	25.4	26.9	26.4	26.7	25.3			
or GED									
At least some college	21.4	19.3	28.1	24.5	54.1	57.8			
Described Area of Residence as:									
Rural	38.0	35.3	8.7	10.6	16.1	14.5			
Not rural but high-	32.9	34.8	48.4	50.3	37.6	42.0			
adeguate public									
transportation									
Not rural not high-	29.1	29.9	42 9	39.1	46.3	43.5			
crime, having	20.1	20.0	12.0	00.1	10.0	10.0			
adequate public									
transportation									
Health and Functioning									
Relative Health Status									
	*								
Excellent or good	20.6	19.1	22.9	30.2	62.0	60.2			
Fair	31.4	23.3	30.2	30.8	23.7	23.9			
Poor	47.9	57.5	46.9	38.9	14.4	15.9			
TABLE A.2 (continued)									
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	Arkan	sas	New Je	ersey	Flori	da			
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
Compared to Past Year									
Health is now better	49.4	49.6	62.5	61.5	84.2	80.0			
or about the same									
Is now more	41.2	46.9	51.8	54.6	75.5	75.3			
physically active or									
about the same									
Next Year, Expects Healt	th to:								
Improve	18.5	21.3	37.5	35.7	25.8	28.3			
Stay the same	38.7	36.5	28.2	35.7	55.9	54.6			
Decline	30.0	30.9	16.9	13.1	9.1	11.5			
Doesn't know	12.8	11.3	17.1	15.4	9.3	5.6			
Not Independent in Past	Week in: ^d								
Getting in or out of	61.3	60.9	66.0	67.1	48.3	53.6			
bed									
Bathing	86.4	84.4	86.7	86.4	77.3	78.6			
Using toilet/diapers	61.7	55.2	68.1	71.2	61.8	64.3			
Cognitively Impaired	16.1	16.1	n.a.	n.a.	58.7	60.2			
(Inferred) ^e									
	Us	e of Person	al Assistance	!					
Received Any Help in Pa	st Week with:								
Household activities ^{b,t}	93.8	91.3	95.7	96.7	95.7*	98.0			
Personal care ^g	84.0	83.5	88.1	88.1	77.8	79.1			
Transportation ^h	70.0	68.3	68.0	72.1	83.3	85.2			
Routine health care ^l	69.1	62.6	76.5	80.1	80.4	77.3			
Used Special	35.0	38.4	62.2	62.0	55.6	58.2			
Transportation Services									
in Past Year									
Modified Home or	35.0	35.2	27.8	23.7	35.6	37.0			
Vehicle in Past Year									
Purchased Assistive	30.2	27.0	29.9	31.6	35.8	36.2			
Equipment in Past Year									
Number of Unpaid Careg	ivers Who Prov	<u>/ided Help ir</u>	n Past Week						
0	9.1	13.5	14.2	15.7	6.5	4.3			
1	24.3	28.3	23.8	19.9	19.9	19.9			
2	26.8	25.2	25.8	20.5	25.8	26.3			
3 or more	39.9	33.0	36.2	43.9	47.9	49.5			
Relationship of Primary In	nformal Caregiv	ver to Client							
Daughter or son	30.5	21.7	17.7	19.9	1.9	1.5			
Parent	18.5	23.5	26.7	30.6	75.7	69.9			
Spouse	6.2	6.5	8.1	6.5	1.2	3.1			
Other relative	20.6	17.0	17.1	14.2	9.3	14.0			
Nonrelative	15.2	17.0	15.4	12.2	5.5	6.1			
No primary informal	9.1	14.4	15.1	16.6	6.4	5.4			
caregiver									
Primary Unpaid	32.8	35.4	36.1	35.7	45.5	47.5			
Caregiver Is Employed									
Length of Time in PCS or	Waiver Progra	am at Enrolli	ment		1				
6 months or more	n.a.	n.a.	44.6	44.2	64.4	66.1			
Less than 6 months	n.a.	n.a.	55.4	55.8	35.6	33.9			

TABLE A.2 (continued)								
	Arkan	sas	New Je	ersey	Flori	da		
	Treatment	Control	Treatment	Control	Treatment	Control		
Characteristics	Group	Group	Group	Group	Group	Group		
Length of Time with Publi	cly Funded Ho	me Care:						
Less than 1 year	14.0	14.4	n.a.	n.a.	n.a.	n.a.		
1 to 3 years	18.9	14.4	n.a.	n.a.	n.a.	n.a.		
More than 3 years	17.7	17.8	n.a.	n.a.	n.a.	n.a.		
Respondent said no	7.8	14.8	n.a.	n.a.	n.a.	n.a.		
care in past week,								
but program says								
current user								
Not a current	41.6	38.7	n.a.	n.a.	n.a.	n.a.		
recipient								
Number of Paid Caregive	rs in Past Wee	k	ſ	r.	ſ	r		
0	44.9	45.7	16.8	14.5	40.1	37.5		
1	35.4	32.2	53.9	52.5	28.9	32.4		
2	14.4	16.5	17.7	22.3	17.0	17.6		
3 or more	5.4	5.7	11.6	10.7	14.1	12.5		
Comparison of Reported	Hours of Paid (Care to Hou	rs in Care Plan	1	ſ	r		
Same	n.a.	n.a.	41.2	43.6	n.a.	n.a.		
Less	n.a.	n.a.	19.1	17.5	n.a.	n.a.		
More	n.a.	n.a.	22.9	24.0	n.a.	n.a.		
Received Paid Help	11.5	13.5	13.6	16.6	14.4	17.4		
from Private Source in								
Past Week								
Had Live-In Paid	1.2	2.2	1.7	2.1	4.3	4.6		
Caregiver								
Weekly Allowance						<u> </u>		
\$0-\$149	n.a.	n.a.	24.1	21.4	27.5	28.1		
\$150-\$299	n.a.	n.a.	46.7	43.5	28.2	30.6		
\$300-\$499	n.a.	n.a.	23.5	27.4	18.9	18.1		
\$500 or more	n.a.	n.a.	5.8	1.1	25.5	23.2		
Weekly Hours	40.0	45.5	1	1	1	[
6 or less	16.8	15.5	n.a.	n.a.	n.a.	n.a.		
More than 6 up to 11	32.6	35.0	n.a.	n.a.	n.a.	n.a.		
More than 11 up to 15	45.9	44.8	n.a.	n.a.	n.a.	n.a.		
More than 15	4.7	4.7	n.a.	n.a.	n.a.	n.a.		
Lieux Catiafia duvith the M	Sa Sa	tistaction v	vith Paid Care			Deutine		
How Satisfied with the Wa	ay Paid Caregi	ver Helped	with Personal C	Jare, House	enoid Activities,	Routine		
			*					
Very satisfied	25.1	23.3	31.7	38.9	25.7	33.6		
Satisfied	14.0	13.6	25.2	27.1	13.9	12.3		
Dissatisfied	14.0	14.9	24.9	18.7	8.2	8.2		
No Paid Help with	46.9	48.3	18.2	15.4	52.2	45.9		
These Activities in Past								
Week								
How Satisfied with Time of	of Day Paid Wo	orker Helpeo	t in the second se					
Very satisfied	13.6	13.6	23.3	25.1	21.6	26.3		
Satisfied	9.9	12.3	22.7	23.6	14.4	14.0		
Dissatisfied	18.2	17.1	24.1	25.1	10.1	10.7		
No paid help in past	58.3	57.0	29.9	26.3	53.9	49.0		
week								

TABLE A.2 (continued)									
	Arkan	sas	New Je	ersey	Flori	da			
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
How Difficult to Change C	Caregiver's Sch	edule ^b							
Very difficult	n.a.	n.a.	30.8	36.8	19.5	20.0			
Somewhat difficult	n.a.	n.a.	17.5	16.6	13.6	16.1			
Not at all difficult	n.a.	n.a.	20.5	19.6	12.4	14.3			
No paid caregiver	n.a.	n.a.	31.1	27.0	54.5	49.7			
How Satisfied with Overa	ll Care					1			
Very satisfied	29.4	25.8	29.0	29.4	41.4	49.1			
Satisfied	25.1	29.0	32.0	35.0	32.5	27.3			
Dissatisfied	30.6	31.7	36.4	31.9	20.0	18.2			
No paid services or	14.9	13.6	2.7	3.7	6.0	5.5			
goods in past week									
Net Cetting Encursh Hale	Unmet N	leeds for P	ersonal Assis	tance					
Not Getting Enough Heip		70.4	04.0	70.0	<u> </u>	<u> </u>			
Household activities	75.9	76.4	81.9	79.2	69.6	66.9			
Transportation ^h	67.2	68.7	76.2	71.0	53.8	52.4			
Transportation	58.1	57.8	12.1	67.6	55.0	55.0			
How Satisfied with Way S	Sponding Lifo ^b	Quality	of Life						
Vory satisfied		12.5	10.2	117	0.6	5.0			
Setiofied	10.9	12.0	10.5	21.6	9.0	5.9			
Disastisfied	25.5	21.4	10.0	21.0	0.2	7.4			
Dissatisfied	39.3	41.1	40.9	33.5	7.Z	7.7			
Question not asked of	24.3	25.0	30.0	33.2	(7.1	79.0			
proxy	Attitudo T	oward Can	cumor Dirocto	d Cara					
Roing Allowed to Pay					60.0	60.6			
Eamily Mombors or	00.4	05.7	05.0	05.4	09.9	09.0			
Friends Was Vory									
	90.7	96.1	02.2	80.0	02.0	95.2			
Paid Worker's	00.7	00.1	92.2	09.9	02.0	05.2			
Schodulos Was Vory									
	99.1	96 F	02.6	01.1	00.2	01.2			
Tupos of Sorvicos	00.1	00.5	93.0	91.1	90.2	91.5			
Paceived Was Very									
Primary Informal	33.0	40.4	32.4	31.1	30.0	25.8			
Caragivar Expressed	55.9	40.4	52.4	51.1	30.0	25.0			
Interest in Being Paid									
Interest in Deing Faid	Work Eyne	rience and	Community A	ctivities					
Ever Supervised			36 0	32.1	66.4	68.6			
Someone ^c		07.0	00.0	02.1	00.4	00.0			
Ever Hired Someone	44.6	38.4	32.8	29.7	68.5	68.6			
Privately ^c	1 1.0	00.7	02.0	20.1	00.0	00.0			
Ever Worked for Pav ^c	83.1	76.5	76.2	71.5	94.8	95.2			
Work for Pay Now ^{b,c}	4.7	6.1	2.9*	5.6	44.9	45.8			
Attended Social/	11.6	7.9	17.4	19.0	42.3	43.9			
Recreational Programs						.0.0			
in Past Year									
Attended Adult Day	4.5	48	16.4	20.2	41.9	40.4			
Care in Past Year									

TABLE A.2 (continued)									
	Arkan	sas	New Je	rsey	Florida				
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
Other									
Proxy Completed All or Most of Survey	23.5	23.9	29.3	32.6	77.6	79.3			
Appointed a	25.9	28.7	n.a.	n.a	85.7	85.5			
Representative of									
Enrollment									
Enrollment Month Was in	:								
First half of period	56.0	55.7	51.3	52.2	59.2	59.2			
Second half of period ^k	44.0	44.4	48.7	47.8	40.8	40.8			
Feeder Program									
Department of Elder	n.a.	n.a.	n.a.	n.a.	0.0	0.0			
Affairs									
Developmental	n.a.	n.a.	n.a.	n.a.	89.5	87.8			
Services									
Adult Services	n.a.	n.a.	n.a.	n.a.	10.5	12.2			
Sample Size	243	230	341	332	419	392			

SOURCE: MPR's baseline evaluation interview, conducted between December 1998 and April 2001 in Arkansas, between November 1999 and July 2000 in New Jersey, and between June 2000 and July 2002 in Florida.

NOTE: Chi-square tests were used to test significances for categorical variables and t-tests were used to test significances for all other variables.

- a. The samples in Arkansas and New Jersey included individuals age 18-64. The sample used for Florida included individuals age 18-59 about 90 percent of whom had developmental disabilities.
- b. Because this characteristic was rare or had a very high mean value for one or two of the states, we did not include it in our logit models for those states.
- c. For Florida, the percentages reflect the characteristics of those people who would make decisions under Consumer Directed Care, be they demonstration enrollees or their representative (if the person responding to the interview was the representative, as was typically the case in Florida, where most consumers had developmental disabilities). For New Jersey and Arkansas, the percentages reflect the characteristics of demonstration enrollees, regardless of whether they would use a representative in their state's consumer-directed program. See Appendix for description of the imputation procedures used when the education and employment variables of the decision maker were not observed.
- d. Needed hands-on or standby help or did not perform activity at all.
- e. We inferred the presence of a cognitive impairment if sample member appointed a representative upon enrollment and was physically or mentally unable to respond to the baseline survey.
- f. Household activities may include meal preparation, laundry, housework, and yard work.
- g. Personal care activities may include eating and bathing.
- h. Transportation may include transportation to a doctor's office, shopping, school, work, or social and recreational activities.
- i. Routine health care may include checking blood pressure or doing exercises.
- j. First Half Enrollment was from 1998 or 1999 for Arkansas, June 1, 2000 to May 31, 2001 for Florida and November 1, 1999 to December 31, 2000 for New Jersey.
- k. Second Half Enrollment was from 2000 or 2001 for Arkansas, June 1, 2001 to July 31, 2002 for Florida and January 1, 2001 to July 31, 2002 for New Jersey.

* Difference between treatment and control groups significantly different from 0 at the .10 level, two-tailed test.

** Difference between treatment and control groups significantly different from 0 at the .05 level, two-tailed test.

*** Difference between treatment and control groups significantly different from 0 at the .01 level, two-tailed test.

TABLE A.3. Baseline Characteristics of Respondents to the Nine Month Interview										
	Fiderly	(Control) Adults by	Variables)	atus						
	Arkan	sas	New Je	ersev	Flori	da				
	Treatment	Control	Treatment	Control	Treatment	Control				
Characteristics	Group	Group	Group	Group	Group	Group				
Demographics										
Age in Years	1		1							
2					**					
65 to 79 ^a	49.1	50.8	59.7	56.2	56.8	49.0				
80 or older	50.9	49.2	40.3	43.8	43.2	51.0				
Female	81.9	82.5	81.6	78.2	80.4	76.9				
Race	1		4.4	1	1	1				
	50 5		**			74.0				
VVhite	59.5	60.8	54.6	63.8	69.0	/1.6				
Black	35.2	32.8	33.2	27.7	28.1	24.6				
	5.3	6.4	12.1	8.5	2.8	3.8				
Of Hispanic Origin	1.4	0.8	38.2	43.6	33.0	36.6				
Language Spoken	Γ			044	1	[
English	n.a.	n.a.	36.6	34.1	n.a.	n.a.				
Spanish	n.a.	n.a.	33.1	39.6	n.a.	n.a.				
Russian	n.a.	n.a.	8.7	8.1	n.a.	n.a.				
Uther Language n.a. n.a. 9.0 6.0 n.a. n.a.										
Living Arrangement/ Man		20.4	22.0	20.2	07.4	20.0				
Lives alone	30.8	30.1	33.8	38.3	27.4	30.9				
Lives with spouse	9.0	9.1	11.2	13.1	12.9	12.7				
Lives with others but	60.1	60.7	56.0	10.1	50.9	56.9				
not married or	00.1	00.7	50.0	49.1	59.0	50.0				
married and lives										
with two or more										
others										
8 years or fewer	66.0	66.2	54.2	55.3	12.3	14.5				
9 to 12 years (no	18.8	16.7	15.7	13.1	18.4	17.6				
diploma)	1010		1011							
High school diploma	12.2	14.1	13.1	13.6	21.1	22.9				
or GED										
At least some college	3.0	3.0	17.0	18.0	48.2	45.0				
Described Area of Reside	ence as:				-					
Rural	40.3	40.6	13.5	10.1	10.8	11.1				
Not rural but high-	28.1	24.8	40.0	36.2	42.0	43.5				
crime or lacking in										
adequate public										
transportation										
Not rural, not high-	31.7	34.6	46.5	53.7	47.2	45.5				
crime, having										
adequate public										
transportation										

		TABLE A.3	(continued)						
	Arkan	sas	New Je	ersey	Flori	da			
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
	ŀ	lealth and	Functioning						
Relative Health Status	ſ	r	1	r	r				
Excellent or good	21.7	18.6	18.8	16.3	25.1	24.4			
Fair	31.6	33.6	38.2	45.0	34.3	41.1			
Poor	46.6	47.7	43.0	38.7	40.5	34.4			
Compared to Past Year	ſ	r		r	[
Health is now better	45.5	47.0	42.3**	50.7	49.9	53.6			
or about the same									
Is now more	33.2***	40.9	31.8	30.3	37.8	39.1			
physically active or									
about the same									
Next Year, Expects Healt	h to:	r	1	r	1				
Improve	13.9	14.3	26.8	27.1	19.9	23.2			
Stay the same	27.0	28.0	22.8	24.7	33.1	29.3			
Decline	39.3	41.0	29.8	27.6	35.2	35.4			
Doesn't know	19.9	16.7	20.7	20.5	11.8	12.2			
Not Independent in Past	Week in: ^a								
Getting in or out of	65.7	68.1	67.8	64.3	65.7	65.5			
bed									
Bathing	90.3*	93.1	87.3	87.1	89.0	88.1			
Using toilet/diapers	67.4	67.8	66.0	64.0	67.3	66.1			
Cognitively Impaired	27.1	31.1	n.a.	n.a.	44.0	45.2			
(Inferred) ^e									
Use of Personal Assistance									
Received Any Help in Pa	st Week with:								
Household activities ^{b,t}	96.1	96.8	96.0	96.6	96.5	97.3			
Personal care ⁹	89.4	90.3	86.3	88.2	88.5	88.4			
Transportation ^h	57.8	59.9	58.4	59.0	57.6	61.4			
Routine health care	77.4	77.2	80.8	82.9	74.3	78.0			
Used Special	24.3	23.6	47.0	51.1	44.1	41.9			
Transportation Services									
in Past Year									
Modified Home or	39.8	36.6	19.8	19.6	42.1	41.0			
Vehicle in Past Year									
Purchased Assistive	31.1	33.4	31.7**	24.5	35.8	36.3			
Equipment in Past Year									
Number of Unpaid Careg	ivers Who Prov	vided Help ir	n Past Week	•		•			
0	8.6	7.9	15.7	14.4	17.2	12.4			
1	29.0	30.3	26.1	29.1	27.4	28.7			
2	29.4	28.3	22.6	23.6	23.9	26.0			
3 or more	33.0	33.6	35.6	32.8	31.5	32.9			
Relationship of Primary Ir	formal Caregiv	ver to Client	L	L	L				
<u>/</u>	*				*				
Daughter or son	64.0	68.6	60.5	60.4	55.5	54.3			
Parent	0.0	0.0	0.0	0.5	0.5	0.8			
Spouse	5.0	4.2	5.7	9.2	12.1	9.6			
Other relative	15.7	15.5	11.9	11.0	8.9	11.9			
Nonrelative	6.5	3.4	4.5	4.2	5.6	10.5			
No primary informal	8.7	8.3	17.4	14.7	17.4	13.0			
caregiver		-				-			

		TABLE A.3	(continued)						
	Arkan	sas	New Je	ersey	Flori	da			
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
Primary Unpaid	32.7	32.5	44.9	41.5	31.2	34.4			
Caregiver Is Employed		00			• · · -	• • • •			
Length of Time in PCS or	Waiver Progra	am at Enroll	ment:						
6 months or more	na	na	46.0	47.8	70.0	69.4			
Less than 6 months	n a	n a	54.0	52.2	30.0	30.6			
Length of Time with Publi	cly Funded Ho	me Care:	0110	02.2	0010	00.0			
Less than 1 year	22.5	22.4	na	na	na	na			
1 to 3 years	25.0	23.3	n.a.	n.a.	n.a.	n.a.			
More than 3 years	22.5	22.8	n a	n a	n a	n a			
Respondent said no	9.1	11 1	n.a.	na.	n.a.	n.a.			
care in past week	5.1		n.a.	n.a.	n.a.	n.a.			
but program says									
current user									
Not a current	20.8	20.4	na	na	na	na			
recipient	20.0	20.4	n.a.	n.a.	n.a.	n.a.			
Number of Paid Caregive	rs in Past Waa	k							
Number of Faid Caregive			**						
0	27.5	28.2	16.4	15.2	0.7	11.0			
1	42.2	20.2	63.7	50.2	47.0	47.0			
	42.2	41.0	11.0	10.2	47.9	47.9			
2 3 or more	20.0	10.2	9.0	63	15.2	12.5			
Comparison of Perperted Hours of Poid Care to Hours in Care Plan									
Some				51 2	n 0	n 0			
	n.a.	n.a.	14.0	01.3 14.7	n.a.	n.a.			
Less	n.a.	n.a.	14.9	14.7	n.a.	n.a.			
Received Daid Help	11.d.	11.a.	17.4	11.0	10.0	11.d.			
	14.4	11.9	15.7	11.0	10.2	14.0			
Doot Wook									
Had Live In Daid	17	1 1	2.0*	0.5	4.2	E O			
	1.7	1.1	2.0	0.5	4.3	5.0			
					**				
¢0 ¢1 40		n 0	07.6	22.4		FO 1			
ΦU-Φ149 \$150 \$200	n.a.	n.a.	27.0	∠3.1 42.2	40.4	22.1			
\$150-\$299	n.a.	n.a.	40.0	43.3	30.0	32.0			
\$500-\$499 \$500 or more	n.a.	n.a.	27.0	29.7	10.4	10.7			
	11.d.	11.a.	4.0	5.9	1.0	4.1			
	24.9	20.2		n 0	22				
0 OF IESS	24.0	20.2	n.a.	n.a.	n.a.	n.a.			
More than 6 up to 11	39.3	30.3	n.a.	n.a.	n.a.	n.a.			
More than 15	34.3	34.7	n.a.	n.a.	n.a.	n.a.			
More than 15	1.4		n.a.	n.a.	n.a.	n.a.			
Llow Cotiofic dwith the M	Sa Sa	tistaction v	vith Paid Care			Deutine			
How Satisfied with the W	ay Paid Caregi	ver Helped	with Personal C	Jare, House	enola Activities,	Routine			
Very satisfied	31.3	34.5	33.8	38.0	43.9	44.1			
Satisfied	25.0	20.6	30.8	26.3	28.1	28.5			
Dissatisfied	14.3	15.9	17.0	18.6	16.4	15.0			
No Paid Help with	29.3	29.1	18.3	17.0	11.7	12.4			
These Activities in Past									
Week									

TABLE A.3 (continued)									
	Arkan	sas	New Je	ersey	Flori	da			
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
How Satisfied with Time of	of Day Paid Wo	orker Helpec							
Very satisfied	22.1	23.5	24.3	21.2	27.5	29.2			
Satisfied	19.6	17.2	24.8	25.9	26.4	24.7			
Dissatisfied	15.5	16.7	21.6	21.7	23.4	20.8			
No paid help in past	42.7	42.6	29.3	31.2	22.6	25.3			
week									
How Difficult to Change C	Caregiver's Sch				07.0				
Very difficult	n.a.	n.a.	28.0	26.2	27.3	29.3			
Somewhat difficult	n.a.	n.a.	17.5	19.7	22.6	21.6			
Not at all difficult	n.a.	n.a.	23.5	21.9	27.0	23.3			
No paid caregiver	n.a.	n.a.	31.0	32.2	23.1	25.9			
How Satisfied with Overa	II Care								
Very estistical	40.7	45.4	20.2	24.2	20.0	44 7			
Very satisfied	42.7	45.1	30.3	34.3	38.8	41.7			
Dispetiefied	35.7	33.1	38.9	37.8	39.8	37.8			
Dissatistied	15.2	11.7	25.4	21.3	20.8	18.0			
No paid services of	0.3	10.2	5.3	0.0	1.1	2.0			
goods in past week	Linmot N	loods for B	orconal Accia	tanaa					
Not Cotting Enough Help	with:	leeds for P	ersonal Assis	tance					
	WIUI.	62.0	76.0	76.7	75.0	747			
Porcenel core ⁹	50.2*	64.2	70.0	70.7	75.0	74.7 62.0			
Transportation ^h	39.2 40.0	45.0	67.0	66.9	64.3 57.0	57.7			
Transportation	40.9	AU2		00.0	57.0	51.1			
How Satisfied with Way S	Spending Life ^b	Quanty							
Very satisfied	14.0	14.0	12.2	13.4	10.2	10.6			
Satisfied	16.4	13.1	17.7	14.2	14.6	14.8			
Dissatisfied	11.4	14.2	19.0	15.5	15.4	13.1			
Question not asked of	58.3	58.7	50.9	56.7	59.9	61.6			
proxv	00.0	0011	0010	0011	00.0	0110			
	Attitude T	oward Con	sumer-Directe	ed Care					
Being Allowed to Pay	85.9	85.9	85.1	85.8	77.8	78.5			
Family Members or									
Friends Was Very									
Important									
Having a Choice About	81.1	79.8	85.1	86.4	82.6	83.5			
Paid Worker's									
Schedules Was Very									
Important									
Having a Choice About	84.9	86.9	89.8	89.5	90.9	90.9			
Types of Services									
Received Was Very									
Important									
Primary Informal	28.6*	33.1	27.6	32.9	30.0**	22.7			
Caregiver Expressed									
Interest in Being Paid									
	Work Expe	rience and	Community A	ctivities					
Ever Supervised	24.0	25.1	32.2	29.6	61.7	57.5			
Someone									
Ever Hired Someone	28.7	28.7	30.4	26.1	63.0	62.4			
Privately									

		TABLE A.3	(continued)						
	Arkan	sas	New Je	ersey	Flori	da			
	Treatment	Control	Treatment	Control	Treatment	Control			
Characteristics	Group	Group	Group	Group	Group	Group			
Ever Worked for Pay ^c	84.1	85.6	80.8	79.8	96.5	94.8			
Work for Pay Now ^{b,c}	8.1	8.9	0.3	0.3	24.1	25.1			
Attended Social/	8.4	8.2	13.9	14.7	12.4	15.2			
Recreational Programs									
in Past Year									
Attended Adult Day	5.9	5.3	11.4	14.0	13.1	15.4			
Care in Past Year									
Other									
Proxy Completed All or	57.0	57.7	50.8	51.2	58.5	60.3			
Most of Survey									
Appointed a	46.4	50.8	n.a.	n.a	70.5	71.1			
Representative of									
Enrollment									
Enrollment Month Was in									
First half of period	47.4	48.9	49.3	48.8	31.4	28.7			
Second half of period ^k	52.7	51.1	49.5	55.4	68.6	71.4			
Feeder Program									
Department of Elder	n.a.	n.a.	n.a.	n.a.	97.9	97.3			
Affairs									
Developmental	n.a.	n.a.	n.a.	n.a.	2.1	2.8			
Services									
Adult Services	n.a.	n.a.	n.a.	n.a.	0.0	0.0			
Sample Size	642	624	402	381	373	363			

SOURCE: MPR's baseline evaluation interview, conducted between December 1998 and April 2001 in Arkansas, between November 1999 and July 2000 in New Jersey, and between June 2000 and July 2002 in Florida.

NOTE: Chi-square tests were used to test significances for categorical variables and t-tests were used to test significances for all other variables.

- a. The samples in Arkansas and New Jersey included individuals age 65 and older. The sample used for Florida included individuals age 60 and older.
- b. Because this characteristic was rare or had a very high mean value for one or two of the states, we did not include it in our logit models for those states.
- c. For Florida, the percentages reflect the characteristics of those people who would make decisions under Consumer Directed Care, be they demonstration enrollees or their representative (if the person responding to the interview was the representative, as was typically the case in Florida, where most consumers had developmental disabilities). For New Jersey and Arkansas, the percentages reflect the characteristics of demonstration enrollees, regardless of whether they would use a representative in their state's consumer-directed program. See Appendix for description of the imputation procedures used when the education and employment variables of the decision maker were not observed.
- d. Needed hands-on or standby help or did not perform activity at all.
- e. We inferred the presence of a cognitive impairment if sample member appointed a representative upon enrollment and was physically or mentally unable to respond to the baseline survey.
- f. Household activities may include meal preparation, laundry, housework, and yard work.
- g. Personal care activities may include eating and bathing.
- h. Transportation may include transportation to a doctor's office, shopping, school, work, or social and recreational activities.

TABLE A.3 (continued) i. Routine health care may include checking blood pressure or doing exercises. First Half Enrollment was from 1998 or 1999 for Arkansas, June 1, 2000 to May 31, 2001 for j. Florida and November 1, 1999 to December 31, 2000 for New Jersey. k. Second Half Enrollment was from 2000 or 2001 for Arkansas, June 1, 2001 to July 31, 2002 for Florida and January 1, 2001 to July 31, 2002 for New Jersey.

* Difference between treatment and control groups significantly different from 0 at the .10 level, two-tailed test. ** Difference between treatment and control groups significantly different from 0 at the .05 level, two-tailed test. *** Difference between treatment and control groups significantly different from 0 at the .01 level, two-tailed test.

TABLE A.4. Minimum Detectable Effects (Percentage Points)										
	Arka	nsas	New Je	ersey	Florida					
Binary Variable	Ages 18-64	Ages 65+	Ages 18-64	Ages 65+	Ages 18-59	Ages 60+				
Mean	(n = 473)	(n = 1,266)	(n = 682)	(n = 783)	(n = 811)	(n = 736)				
.50	12.9	7.9	10.7	10.0	9.8	10.3				
.30 or .70	11.8	7.2	9.8	9.2	9.0	9.5				
.10 or .90	7.7	4.7	6.4	6.0	5.9	6.2				
NOTE: Numbers in	n table assume	80 percent po	wer to detect ir	npacts using	two-tailed tests	at the .05				
significance level.										

TABLE A.5. Distribution of Hours of Care Received in the Past Two Weeks for Adults Nonelderly									
	Arka	nsas	New J	ersev	Florida				
Outcome	Treatment Group Predicted Mean (Percent)	Control Group Predicted Mean (Percent)	Treatment Group Predicted Mean (Percent)	Control Group Predicted Mean (Percent)	Treatment Group Predicted Mean (Percent)	Control Group Predicted Mean (Percent)			
Total Help Received	, , , ,								
	**		*						
0 to 42 hours (0 to 3 per dav)	38.1	36.3	20.8	24.8	13.6	13.9			
43 to 126 hours (3 to 9 per day)	33.2	22.4	34.1	25.1	21.4	20.2			
127 to 210 hours (9 to 15	18.1	21.5	20.5	20.1	30.6	28.4			
211 or more hours (more than 15 per day)	10.7	19.7	24.6	30.0	34.4	37.4			
Sample Size	205	223	293	323	360	366			
Among Those with Paid Care, F	Received:								
	***		***		*				
1 to 14 paid hours (less than 1 per day)	18.0	31.1	5.6	10.5	19.8	28.8			
15 to 70 paid hours (1 to 5	75.8	53.0	83.6	72.3	51.0	48.1			
71 or more paid hours (5 or more per day)	6.2	15.9	10.8	17.2	29.3	23.2			
Sample Size	178	132	250	238	253	233			

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003. **NOTES**: This analysis includes only those with complete data for each component of total hours.

* A chi-square test indicates that the distribution of hours for the treatment group was significantly different from that of the control group at the .10 level.

** A chi-square test indicates that the distribution of hours for the treatment group was significantly different from that of the control group at the .05 level.

*** A chi-square test indicates that the distribution of hours for the treatment group was significantly different from that of the control group at the .01 level.

TABLE A	TABLE A.6. Estimated Effects of Cash and Counseling on the Type of Care Received During Past Two Weeks Nonelderly									
	Ar	rkansas (n=47	73)	Ne	w Jersey (n=6	682)	F	Florida (n=81	I)	
Outcome	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	
Received Paid or	Unpaid Assista	nce with:								
Medicine	73.2	66.2	7.0* (.082)	76.6	73.2	3.3 (.293)	68.4	65.1	3.3 (.263)	
Routine health care	57.2	54.4	2.8 (.523)	66.5	60.5	5.9* (.085)	58.1	54.9	3.2 (.315)	
Eating	63.5	51.0	12.5*** (.003)	69.6	67.0	2.6 (.441)	65.6	63.3	2.3 (.410)	
Getting in and out of bed	63.1	54.3	8.8** (.026)	71.7	64.0	7.7** (.019)	49.6	50.6	-1.1 (.690)	
Using toilet	54.1	45.7	8.5** (.043)	62.7	58.6	4.1 (.239)	46.5	49.0	-2.5 (.399)	
Bathing or showering	87.3	80.8	6.6* (.057)	84.0	79.2	4.8* (.084)	75.3	74.1	1.1 (.598)	
Other personal care	83.8	68.9	14.9*** (.000)	82.8	75.9	6.9** (.019)	76.1	77.0	-0.9 (.691)	
Bringing or preparing meals	88.9	85.2	3.8 (.238)	91.1	85.4	5.7** (.018)	92.8	91.9	0.9 (.581)	
Light housework	94.3	90.9	3.4 (.202)	92.2	88.9	3.4 (.126)	92.1	91.8	0.3 (.853)	
Shopping	90.8	84.0	6.8** (.032)	90.7	87.1	3.5 (.139)	91.2	92.5	-1.2 (.482)	
Transportation	80.2	68.5	11.7*** (.003)	69.8	62.9	6.8** (.049)	86.1	86.5	-0.3 (.866)	
Other things around house or community	90.4	76.6	13.8*** (.000)	84.1	79.2	4.9* (.089)	89.6	84.8	4.8** (.026)	

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003. NOTES: Means were predicted using logit models. Because of item nonresponse, the sample sizes vary by one to three observations across outcomes.

TABLE A.7. Estimated Effects of Cash and Counseling on Community Service Use Nonelderly									
	Arkansas (n=471)			New Jersey (n=682)			Florida (n=811)		
Outcome	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Since Enrollment:				-		-		-	
Moved to new place with staff to help	11.9	14.9	-2.9 (.321)	10.4	8.1	2.3 (.315)	7.5	8.3	-0.8 (.688)
Attended adult day care ^a	3.1	3.5	-0.4 (.760)	14.4	19.9	-5.5** (.023)	40.9	39.0	1.9 (.440)
Attended community/ recreational program ^a	6.3	7.5	-1.3 (.479)	15.1	21.4	-6.3** (.028)	38.7	37.9	0.9 (.776)
Received home- delivered meals ^b	4.1	12.2	-8.2*** ^c (.004)	5.4	7.5	-2.2 (.256)	3.8	4.1	-0.3 (.835)
Used transportation services to visit doctor	32.4	28.8	3.6 (.290)	49.2	52.7	-3.5 (.294)	43.4	43.3	0.1 (.969)
Used transportation services to go other places	30.4	26.0	4.4 (.183)	40.8	42.5	-1.7 (.602)	12.7	13.2	-0.6 (.794)
Had help arranging for services from case manager	23.1	19.5	3.6 (.355)	25.3	25.1	0.1 (.966)	43.2	49.6	-6.3* (.068)
Had help arranging for services from family and friends	7.8	11.6	-3.9 (.197)	14.1	13.7	0.4 (.870)	23.8	23.1	0.7 (.811)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003. NOTES: Means were predicted using logit models. Because of differences in item nonresponse, the sample size is slightly smaller (by up to 15) for some outcome measures.

Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in the model. Effects for Florida were estimated using a simple t-test. Basic model was changed slightly by deleting seven control variables to avoid perfect classification. a.

b.

c.

TABLE A.8. Distribution of Hours of Care Received in the Past Two Weeks for Adults										
Elderly										
	Arka	nsas	New J	ersey	Florida					
Outcome	Treatment Group Predicted Mean (Percent)	Control Group Predicted Mean (Percent)	Treatment Group Predicted Mean (Percent)	Control Group Predicted Mean (Percent)	Treatment Group Predicted Mean (Percent)	Control Group Predicted Mean (Percent)				
Total Help Received	((1.0.0011)	(((! ! ! ! ! ! !				
0 to 42 hours (0 to 3 per day)	34.8	34.1	28.5	29.1	31.7	32.2				
43 to 126 hours (3 to 9 per day)	23.0	20.8	28.5	26.8	20.4	16.4				
127 to 210 hours (9 to 15 per day)	19.9	20.8	20.4	15.9	16.6	16.7				
211 or more hours (more than 15 per day)	22.3	24.3	22.5	28.2	31.3	34.6				
Sample Size	534	577	333	347	284	335				
Among Those with Paid Care, R	Among Those with Paid Care, Received:									
1 to 14 paid hours (less than 1 per day)	16.1	38.2	7.2	11.4	28.2	39.1				
15 to 70 paid hours (1 to 5 per day)	80.1	56.0	75.8	79.2	62.8	46.0				
71 or more paid hours (5 or more per day)	3.9	5.8	17.0	9.5	9.0	14.9				
Sample Size	411	343	277	264	234	276				

SOURCE: MPRs nine month evaluation interview, conducted between September 1999 and June 2003. **NOTES**: This analysis includes only those with complete data for each component of total hours.

* A chi-square test indicates that the distribution of hours for the treatment group was significantly different from that of the control group at the .10 level.

** A chi-square test indicates that the distribution of hours for the treatment group was significantly different from that of the control group at the .05 level.

*** A chi-square test indicates that the distribution of hours for the treatment group was significantly different from that of the control group at the .01 level.

TABLE A.9. Estimated Effects of Cash and Counseling on the Type of Care Received During Past Two Weeks Elderly									
	Arkansas (n=1,261)			New Jersey (n=782)			Florida (n=736)		
Outcome	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Received Paid or U	Inpaid Assistar	nce with:							
Medicine	69.7	69.6	0.1 (.961)	79.2	77.2	2.0 (.461)	68.3	66.7	1.7 (.578)
Routine health care	54.4	49.8	4.6* (.096)	66.9	64.6	2.3 (.452)	53.6	53.9	-0.4 (.914)
Eating	59.6	57.2	2.4 (.373)	65.2	60.9	4.4 (.168)	59.7	60.5	-0.8 (.791)
Getting in and out of bed	57.5	55.2	2.3 (.380)	66.5	64.5	2.0 (.497)	60.3	61.6	-1.3 (.671)
Using toilet	54.2	51.8	2.5 (.364)	60.7	57.0	3.7 (.251)	52.8	52.3	0.5 (.879)
Bathing or showering	78.2	77.9	0.3 (.894)	80.4	77.2	3.2 (.238)	78.0	81.4	-3.3 (.211)
Other personal care	74.3	72.8	1.5 (.547)	75.8	73.0	2.8 (.332)	76.6	74.1	2.5 (.391)
Bringing or preparing meals	79.2	77.2	2.0 (.391)	84.2	86.1	-1.9 (.420)	79.2	77.0	2.2 (.432)
Light housework	83.4	82.6	0.8 (.699)	88.0	90.6	-2.6 (.224)	89.4	89.3	0.1 (.966)
Shopping	81.6	82.9	-1.3 (.538)	89.1	88.1	1.0 (.653)	87.8	86.1	1.7 (.475)
Transportation	58.2	55.9	2.3 (.397)	61.1	57.9	3.2 (.332)	59.7	62.3	-2.6 (.439)
Other things around house or community	77.3	75.9	1.4 (.557)	80.1	80.0	0.1 (.971)	82.6	77.1	5.5* (.061)

SOURCE: MPR's nine month evaluation interview, conducted between September 1999 and June 2003. NOTES: Means were predicted using logit models. Because of item nonresponse, the sample sizes vary by up to four observations across outcomes.

TABLE A.10. Estimated Effects of Cash and Counseling on Community Service Use Elderly									
	Arkansas (n=1,258)			New Jersey (n=783)			Florida (n=736)		
Outcome	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)	Predicted Treatment Group Mean (Percent)	Predicted Control Group Mean (Percent)	Estimated Effect (p-value)
Since Enrollment:									
Moved to new place with staff to help	11.7	10.6	1.1 (.548)	4.9	6.2	-1.4 (.414)	6.8	4.3	2.4 (.178)
Attended adult day care ^a	5.4	5.7	-0.2 (.845)	15.2	14.4	0.8 (.712)	7.8	13.4	-5.6*** (.004)
Attended community/rec reational program ^a	8.3	9.5	-1.1 (.474)	10.0	10.8	-0.8 (.712)	10.6	13.1	-2.5 (.259)
Received home- delivered meals	45.6	47.6	-1.9 (.476)	11.1	11.9	-0.9 (.696)	40.5	53.5	-12.9*** (.000)
Used transportation services to visit doctor	17.3	19.8	-2.4 (.205)	38.4	41.1	-2.7 (.383)	34.9	36.1	-1.2 (.691)
Used transportation services to go other places	14.6	17.6	-3.0* (.097)	34.4	37.2	-2.8 (.344)	28.7	29.2	-0.5 (.852)
Had help arranging for services from case manager	38.1	34.1	3.9 (.147)	27.2	20.4	6.8** (.029)	42.5	40.7	1.8 (.622)
Had help arranging for services from family and friends SOURCE: MPR's I	12.8 nine month eva	11.6	1.2 (.508) ew, conducted I	15.8 between Septe	13.4 mber 1999 an	2.4 (.334) d June 2003.	15.8	14.1	1.8 (.499)

NOTES: Means were predicted using logit models. Because of differences in item nonresponse, the sample size is slightly smaller (by 2 to 4 percent) for some of these outcomes.

a. Effects were estimated by pooling the two age groups and including an age*treatment status interaction term in the model.