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Living Well and Medicaid: Better Health for Consumers -- Lower Costs for States

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July 2004

Research Report

Living Well and Medicaid: Better Health for Consumers, Lower Costs for States

The United States has the world's most expensive healthcare system. In 2002, health spending rose to nearly 15 percent of U.S. Gross Domestic Product.

Healthcare policymakers charged with balancing cost containment with quality healthcare for consumers are desperate for solutions (Levit, Smith, Cowan, Sensenig, and Catlin, 2004).

Background

Across the U.S. as Medicaid enrollments rise, states struggle with the increasing drain on their budgets; 45 states have now instituted measures to control growth in Medicaid spending (Kaiser Commission on Medicaid and the Underserved, 2002). From 1995 to 1999, Medicaid spending rose by 6.5 percent per year. In 2001 it increased by 10.2 percent, and in 2002 by 11.7 percent. Clearly, states desperately need solutions.

Medicaid is an entitlement program, but each state determines who is eligible based on income and characteristics (people with disabilities, families with children, etc.). In 1980, 33.6% of Medicaid spending went for beneficiaries with disabilities. By 2000, the 17.6% of Medicaid beneficiaries with disabilities accounted for 45.1% of Medicaid spending (Centers for Medicare and Medicaid Services, 2004). In just 20 years, the share of Medicaid spending for people with disabilities grew by 11.5%. Part of this may be attributable to their increased risk for secondary conditions, including expensive medical complications such as pressure ulcers and heart disease (Coyle, Santiago, Shank, Ma, & Boyd, 2000; Seekins, Clay & Ravesloot, 1994).

As part of a national health promotion movement for all people with disability, the Centers for Disease Control and Prevention (CDC) support our program of research, development, and services. Researchers at The University of Montana RTC: Rural and at the

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University of Kansas RTC/IL have developed and evaluated the Living Well with a Disability program, a health promotion program for adults with physical disabilities.

Based on independent living philosophy and rural traditions of self-care, Living Well is an eight-week workshop which introduces a goal-setting and goal clarification process, and teaches problem-solving skills. Living Well also provides tools for managing health and making healthy lifestyle changes, increasing physical activity, developing and maintaining healthy relationships, improving nutrition, avoiding depression and frustration, and advocating for community changes that help maintain gains. Living Well improves participants' health and reduces medical care costs over 12 months (Research Progress Reports #6 and #7).

The goal of this current research was to examine the effects of the Living Well with a Disability program on the cost of providing healthcare to Medicaid beneficiaries.

Research Process

Nine centers for independent living in eight states recruited a convenience sample of 122 adult Medicaid recipients with mobility impairments to attend a two-hour Living Well session each week for eight weeks. Of the recruits, 103 completed a pre-measure and at least one post-measure and 78 completed pre-, post-, 2-, and 4-month follow-up surveys. Our previous research included a 12-month follow-up survey, but the current study's sample was too small for a 12-month analysis. We used a staggered baseline experimental design with random assignment to treatment start date. We also used an extended baseline measure collected two months before the intervention to assess the study's internal validity.

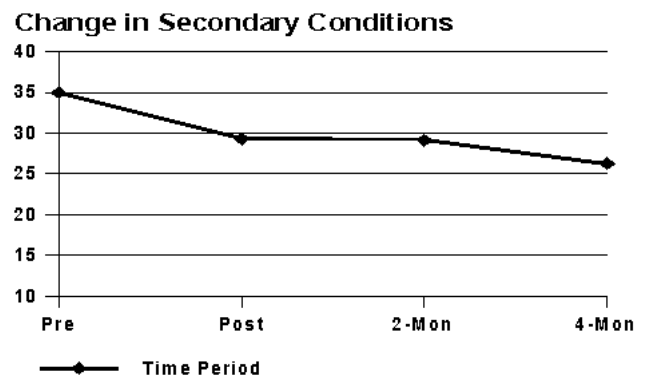
Respondents used the Secondary Condition Surveillance Instrument (Seekins, Clay, McCleary & Walsh, 1990) to rate the severity of limitation they experienced from each of 43 secondary conditions. To estimate respondents' healthcare costs, we used a 2-month retrospective recall of their physician and emergency room visits, outpatient surgeries and hospital days. We multiplied these utilization data by unit Medicare

cost estimates to generate medical costs which were depreciated by 30% to estimate Medicaid costs.

Results

Participants reported striking reductions in their limitation from secondary conditions over the intervention period. These were maintained at the two- and four-month follow-up (Figure 1), and were consistent with previous reports on the effectiveness of the Living Well with a Disability program. Participants' average secondary condition ratings decreased by 25% between the pre- and the 4-month post-measure. Analysis of the extended baseline data supported the internal validity. No evident change over the baseline period was followed by substantial and statistically significant change during the intervention period.

Figure 1. Change in Secondary Conditions



Secondary Condition Severity Rating

Healthcare cost outcomes were very positively skewed, precluding the use of parametric statistics. Table 1 includes quartiles and mean for per person healthcare costs at pre-, post-, 2-month and 4-month post period. The Friedman non-parametric repeated measures test was not significant ($\chi^2 = 3.71, p = .29$), indicating that the change over time was no different than that expected by chance.

In order to increase the sample size and statistical power of the significance test, we also conducted the Wilcoxon paired samples test for the pre- and post-test. This indicated statistically

significant change (Wilcoxon $Z = 2.82$, $p = .005$) in healthcare costs over the pre- to post-intervention period.

analyzed when the distribution of data is skewed).

Conclusions and Next Steps

Table 1: Per-Person Healthcare Cost Quartiles for Each Measurement Period

| Measurement Period | Average Costs | Cost at Each Percentile | | |
|--------------------|---------------|-------------------------|---------------|----------|
| | | 25th | 50th (median) | 75th |
| Pre-Intervention | \$1,778.10 | \$0 | \$190.50 | \$569.50 |
| Post-intervention | \$657.60 | \$0 | \$119.00 | \$360.75 |
| 2-month post | \$518.80 | \$0 | \$130.00 | \$441.75 |
| 4-month post | \$735.10 | \$0 | \$89.50 | \$434.00 |

Next, we calculated the potential net benefit to Medicaid of implementing the Living Well program. The intervention cost \$596 per participant, including program implementation and expenses of training facilitators for 2 1/2 days in Kansas City, Missouri. Using the mean per-person healthcare cost for each measurement period, we calculated that the net saving to Medicaid would be \$2,828 per person over the six months from program implementation through four-month post follow-up. After accounting for Living Well implementation costs for 103 participants, this intervention saved the Medicaid program as much as \$291,284 (in 1998 dollars).

Limitations

These estimates may change substantially with other samples. This study was limited by:

- convenience sampling;
- self-report outcome measures; and
- interpretation of cost outcome data. Cost savings were estimated by summing the difference between baseline cost and the cost estimates from all three follow-up measures. Based on the Wilcoxon signed rank test, only the first post-measure was judged to be statistically different from the baseline measure. An additional limit is the calculation of cost savings using the arithmetic mean (which is sensitive to the exact sample being

States are in crisis as more people with disabilities come to depend upon Medicaid services. To meet their needs, Medicaid must consider alternative perspectives and new paradigms. This study is consistent with other research in demonstrating that the health promotion paradigm for people with chronic illness and disabilities is effective (e.g. Lorig et al., Chronic Disease Study). It is possible to improve the quality of an individual's life while controlling healthcare costs. Individuals with disabilities report they are limited by an average of 14 secondary conditions annually. In this study, secondary conditions decreased by 25% during the intervention period and the decrease was maintained for 4 months after the intervention. In a larger study, this decrease was maintained over 12 months and healthcare costs during the intervention period were reduced by 37% (Research Progress Report #7).

Living Well with a Disability represents two notable paradigm shifts. First, it uses the World Health Organization's social model of disability (International Classification of Function, 2001). This model recognizes that disability outcome is the result of how a person's functional abilities interact with the environment in which the person lives. Second, Living Well is consistent with Independent Living philosophy's emphasis on consumer choice and empowerment. Living Well encourages participants to improve their health as a way to pursue meaningful goals, such as employment and relationships.

If the status quo dictates future Medicaid policy for people with disabilities, we can predict disaster for individuals and state governments.

The solution is large scale demonstration programs that can validate and build on the success of programs such as Living Well with a Disability.

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