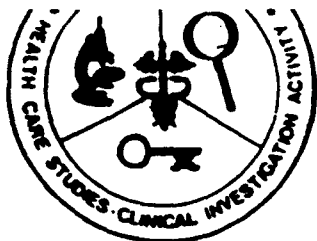


TRI-SERVICE CHAMPUS STATISTICAL

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(TCSDP)



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DETAILED ANALYSIS OF CHAMPUS  
PER CAPITA MENTAL HEALTH EXPENDITURES  
FOR BENEFICIARIES AGES 18 THROUGH 64,  
HEALTH SERVICES COMMAND CATCHMENT AREAS  
FISCAL YEARS 1988-1993

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**TRI-SERVICE CHAMPUS STATISTICAL  
DATABASE PROJECT  
(TCSDP)**

**DETAILED ANALYSIS OF CHAMPUS  
PER CAPITA MENTAL HEALTH EXPENDITURES  
FOR BENEFICIARIES AGES 18 THROUGH 64,  
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FISCAL YEARS 1988 - 1993**

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CR 94-002  
May 1994

**UNITED STATES ARMY  
MEDICAL DEPARTMENT CENTER AND SCHOOL  
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\* \* \* \* \*

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**SUMMARY OF RESULTS PERTAINING TO FORT BRAGG.**

Due to the high interest in the Fort Bragg Child and Adolescent Mental Health Demonstration Project, Fort Bragg catchment area results from the current study are summarized below.

The Demonstration Project, initiated in August 1989, provides a 'continuum of care' for mental health treatment of eligible beneficiaries under age 18. Several reports (#CR91-003, #RP92-006, #CR94-001) have compared the costs from the Fort Bragg Demonstration Project with corresponding costs from the other HSC catchment areas. These reports showed that the Fort Bragg Demonstration Project exhibited the greatest growth in pre- to post- demonstration period per capita monthly expenditure increase for mental health treatment of children and adolescents.

The current report, which examined treatment costs for eligible beneficiaries ages 18 to 64, closely follows the same analysis and study period used in the most recent report (#CR94-001) for beneficiaries less than 18. The major findings concerning the Fort Bragg catchment area are as follows:

<u>Monthly Costs Per 1000 Eligible Beneficiaries Ages 18 through 64</u>		<u>Fort Bragg's Ranking Within HSC Catchment Areas</u>
Pre-Demo Period (Oct 87-Jun 89)	\$6.24K	12 of 37
Post-Demo Period (Aug 89-Jun 93)		
Sep 89	\$7.84K	14 of 37
Sep 90	\$8.48K	9 of 37
Sep 91	\$6.58K	9 of 37
Sep 92	\$4.83K	18 of 37
Jun 93	\$2.29K	21 of 35

Fort Bragg's monthly rates of increase/decrease in government psychiatric costs per 1000 eligible beneficiaries were computed at the midpoints of the Pre- and Post-Demonstration periods and ranked in comparison to those found for the other catchment areas. The results are shown below together with the findings obtained in report #CR94-001 for those beneficiaries less than 18:

<u>Age</u>	<u>Pre-Demo Mid Point</u>	<u>Rank</u>	<u>Post-Demo Mid-Point</u>	<u>Rank</u>	<u>Pre/Post % Change</u>
under 18	+ \$139	24 of 37	+ \$495	1 of 37	256% increase
18 - 64	no trend	20 of 37	- \$91	25 of 37	100% decrease

DETAILED ANALYSIS OF CHAMPUS  
PER CAPITA MENTAL HEALTH EXPENDITURES  
FOR BENEFICIARIES AGES 18 THROUGH 64,  
HEALTH SERVICES COMMAND CATCHMENT AREAS  
FISCAL YEARS 1988-1993

INTRODUCTION

This technical report presents the results of a longitudinal examination of CHAMPUS mental health per capita expenditures for eligible beneficiaries ages 18 through 64 in all Health Services Command (HSC) catchment areas. The overall study period was from October 1987 to June 1993.

In August 1989, the Army Medical Department contracted with the state of North Carolina to provide all mental health services to the eligible beneficiaries less than 18 in the Fort Bragg catchment area. Several reports (#CR91-003, #RP92-006, #CR94-001) have examined the treatment expenditures under the Fort Bragg Demonstration Project as well as mental health expenditures for beneficiaries under age 18 in other HSC catchment areas. These reports showed that the Fort Bragg Demonstration Project exhibited the greatest growth in pre- to post-demonstration period per capita monthly expenditure increase for mental health treatment of children and adolescents.

The current report, for eligible beneficiaries ages 18 to 64, closely follows the same analysis and presentation of results that were used in the most recent report (#CR94-001) for beneficiaries less than 18. As described below, the same pre- and post-demonstration periods (from the Fort Bragg Demonstration Project) were used in this analysis. Results presented include monthly costs per 1000 eligible beneficiaries and the relative rankings of all HSC catchment areas for pre- and post-demonstration periods. Also included are regression analysis results for the two periods and the comparative rate of increase in government per capita expenditures for all Health Services Command catchment areas.

This report assesses the growth or reduction of CHAMPUS Adult Mental Health Costs per beneficiary per month. It is intended as an additional reference for the use of catchment area medical treatment facility commanders to measure the progress of their local initiatives. In addition, there will be commentary on Fort Bragg, Fort Campbell, and Fort Stewart, each having participated in the Fort Bragg Child and Adolescent Mental Health demonstration Project (see #CR94-01). There will be some comments on the Catchment Area Management (CAM) sites, Forts Carson and Sill.

METHODS

The source of all population data was the Defense Management Information System (DMIS) RAPS population module. All CHAMPUS data were derived from the Tri-Service CHAMPUS Statistical Database (TCSDB). This report included institutional services, inpatient and ambulatory professional services claims and vendor and consolidated



drug claims. All claims paid for eligible beneficiaries were retrieved through September 1993 to adjust for care date to claim payment date time lag.

In this analysis, fiscal intermediary claims were adjusted upward to account for the fiscal intermediary claims processing overhead charges. Following these adjustments, monthly mental health government expenditures were divided by the eligible beneficiary population within each catchment area and longitudinal trends were examined. Two periods of analysis were considered: 1) pre-demonstration, October 1987 - July 1989; and 2) post-demonstration, August 1989 - June 1993. Two regression models were considered (linear and quadratic) for each of the two periods. The best fitting model was used; if no trend was exhibited, then no model was applied. These findings were compared to a list of CHAMPUS Alternate Use and GATEWAY TO CARE initiatives provided by the Managed Care Division of the MEDCOM. Any initiative approved through FY 93 was considered to have had an impact on the cost within a catchment area.

## RESULTS

In the period prior to the demonstration project at Fort Bragg (October 1987 - July 1989), Health Services Command average mental health per capita expenditures per 1000 eligible beneficiaries ages 18 through 64 ranged from a low of \$1.83K (Fort Wainwright) to a high of \$8.91K (Fort Sill) (Table 1, p. 5). The HSC average was \$4.88K/1000 beneficiaries. Fort Bragg averaged \$6.24K/1000 beneficiaries and ranked as 12th (out of 37) of all Health Services Command catchment areas in per capita average cost.

In September 1989, the approximate time of the onset of the demonstration project, Fort Bragg's per capita expenditures had risen slightly to \$7.84K/1000 beneficiaries (rank: 14 out of 37) (Table 2, p. 6), a 26% increase. HSC also experienced a rise with the command-wide average increasing to \$6.83K/1000 beneficiaries, a 40% increase. In September 1990, Fort Bragg's per capita expenditures had increased to \$8.48K/1000 beneficiaries (rank: 9 out of 37), a 8% increase. The HSC average declined to \$6.18K/1000, a 9.5% decrease. In September 1991, Fort Bragg's expenditures decreased to \$6.58K/1000 beneficiaries, a 22% decrease, and Fort Bragg ranked ninth out of 37 catchment areas in monthly expenditures per 1000 eligible beneficiaries. The HSC average declined again to \$5.53K/1000, a decrease of 10.5%. In September 1992, Fort Bragg's per capita expenditures had decreased to \$4.83K/1000 beneficiaries (rank: 18 out of 37), a 27% decrease. Meanwhile, the HSC average dropped again to \$4.72K/1000 beneficiaries, a decrease of 14.6%. In June 1993 these expenditures had decreased to \$2.29K/1000 beneficiaries (rank: 21 out of 35), a 53% decrease, and HSC averaged \$2.78K/1000, an estimated decrease of 21% for the period. (Note: For reporting purposes, two catchment areas: Fort Dix and Eustis, were transferred by June 1993 from HSC to the Air Force and Navy Coordinated Care offices, respectively).

In September 1989 Fort Polk demonstrated the highest rate of expenditures (\$16.84K/1000 beneficiaries), in September 1990 Walter Reed AMC had the highest rate (\$12.72K/1000 beneficiaries), in September 1991 Fort Polk again had the highest per capita expenditures (\$19.00K/1000 beneficiaries), in September 1992 Fort Huachuca demonstrated the highest expenditures (\$10.58K/1000 beneficiaries), and in June of 1993 Fort Rucker had the highest per capita expenditures (\$6.36K/1000 beneficiaries).

In Table 8 (p.12) are listed the pre- and post-rates of increase/decrease per month in per capita costs for all catchment areas. These rates were derived from the regression analyses itemized in Tables 4 through 7 (pp. 8-11). Prior to the demonstration project, 18 out of 37 Health Services Command catchment areas demonstrated a positive monthly rate of increase in per capita expenditures. Fort Bragg demonstrated no trend and ranked 19 out of 37 catchment areas in magnitude of monthly increase, indicating the monthly rate of increase was modest. By the end of this analysis period only one catchment area continued to exhibit a positive monthly rate of increase (Fort Gordon), and Fort Bragg ranked 25th with a monthly rate of decrease computed as \$91/1000 beneficiaries. Fourteen of the area experiencing decrease had instituted CHAMPUS Alternate Use in GATEWAY TO CARE adult mental health initiatives. The greatest decreases were shown by William Beaumont AMC (227%), Fitzsimons AMC (205%), Fort Polk (188%), and Fort Hood (188%).

When comparing the pre- and post-demonstration periods, only five of 37 Health Services Command catchment areas demonstrated a pre- to post-demonstration net growth in monthly rate of per capita expenditures. In three catchment areas there was no trend at all. In all of the other 28 catchment areas either the positive rate had decreased or the rate had actually reversed (i.e., the positive rate of growth had become negative).

The five catchment areas which showed a percent change increase were Tripler AMC (170%), Letterman AMC (100%), Fort Gordon (100% increase), Fort Belvoir (100%), and Fort Sill (30%). Fort Stewart had demonstrated the negative monthly rate of 165%, and Fort Campbell's rate of expenditure growth had decreased 153%.

Two to three Medical Centers were among the top 10 highest costs during the period (Table 3, p. 7). Both Walter Reed Army Medical Center (WRAMC) and Brooke Army Medical Center (BAMC) appeared in five of six periods. William Beaumont Army Medical Center (WBAMC) appeared three times and Tripler Army Medical Center (TAMC) appeared twice. The top ten highest cost catchment areas had a common denominator of large active duty soldier populations as a characteristic. In the September 1989 and 1992 listings, Fort Irwin was second highest, likely due to reoteness and changes in the active duty family population's mental health needs characteristics. There was some relationship to the appearance in the top 10 highest cost catchment areas and proximity to metropolitan areas. WRAMC, BAMC, WBAMC, TAMC, and Forts Carson, Belvoir, and Meade appeared with some consistency comprising from 20% of the list of top 10 during the period ending 9/90 to 50% of the lists during the periods ending 9/91 and 6/93.

The HSC average decrease in adult mental health catchment area costs was slightly better than 94% for all areas when comparing pre- to post-demonstration periods.

#### SUMMARY

In general, with the exception of the period ending September 1990, the Health Services Command arrested growth of the average cost per 1000 beneficiaries per month for the periods reviewed. This savings was achieved by better local management, CHAMPUS Alternate Use and GATEWAY TO CARE initiatives, and the maturation of the CHAMPUS Mental Health (CHAMP-MH) program.

When compared to the other 37 Health Services Command catchment areas, Fort Bragg exhibited a fair amount of decrease in post-demonstration period rate in per capita monthly expenditure (rank: 25 out of 37). Fort Stewart is ranked as 30th and Fort Campbell as 11th. Prior to the demonstration project, Fort Bragg catchment area ranked 12th out of 37 catchment areas in average per capita expenditures. By the end of the analysis period (93/06), Fort Bragg ranked 21st out of 35 catchment areas (Table 2, p.6).

When comparing estimated trends in per capita monthly expenditures, the 100% rate of decrease at Fort Bragg locates Womack AH in the middle of the ranking list.

This review may be useful to review against regional and national cost norms such as the Health Maintenance Organization Employer Data Information Set.

TABLE 1  
 GOVERNMENT PSYCHIATRIC COSTS  
 AVERAGE MONTHLY COST  
 PER 1000 ELIGIBLE BENEFICIARIES AGES 18 THROUGH 64  
 PRE-DEMO PERIOD (OCT 87 - JUL 89)  
 HEALTH SERVICES COMMAND CATCHMENT AREAS

CATCHMENT AREA	AVG COST (000'S)	RANK (N=37)	MINIMUM (000'S)	MAXIMUM (000'S)
FOX AH REDSTONE ARSENAL	2.58	33	1.06	3.98
NOBLE AH FT MCCLRELLAN	3.50	29	0.90	5.24
LYSTER AH FT RUCKER	3.91	26	1.22	6.63
BASSETT AH FT WAINWRIGHT	1.83	37	0.21	6.14
BLISS AH FT HUACHUCA	7.93	3	3.35	15.07
LETTERMAN AMC	2.74	31	1.42	5.27
HAYS AH FT ORD	4.57	18	2.33	7.09
FITZSIMONS AMC	4.26	22	2.31	6.39
USA HOSP FT CARSON	5.62	13	2.90	7.98
WALTER REED AMC	4.96	15	2.22	9.59
EISENHOWER AMC FT GORDON	1.97	35	0.96	3.27
MARTIN AH FT BENNING	4.54	19	2.31	7.47
USA HOSP FT STEWART	7.47	5	4.45	14.83
TRIPLER AMC	7.23	7	3.92	12.98
IRWIN AH FT RILEY	4.73	16	2.38	7.18
MUNSON AH FT LEAVENWORTH	5.53	14	3.34	10.12
BLANCHFIELD AH FT CAMPBELL	1.83	36	0.99	3.10
IRELAND AH FT KNOX	6.57	8	4.02	10.09
USA HOSP FT POLK	7.88	4	2.50	14.91
KIMBROUGH AH FT MEADE	3.88	27	2.07	5.99
CUTLER AH FT DEVENS	4.10	24	2.54	6.94
WOOD AH FT LEONARD WOOD	4.51	20	1.22	10.53
PATTERSON AH FT MONMOUTH	4.25	23	2.05	7.92
WALSON AH FT DIX	4.03	25	1.20	7.05
KELLER AH US MILITARY ACAD	3.52	28	1.59	7.25
WOMACK AH FT BRAGG	6.24	12	3.63	7.86
REYNOLDS AH FT SILL	8.91	1	4.94	13.23
MONCRIEF AH FT JACKSON	2.26	34	0.38	5.89
BEAUMONT AMC FT BLISS	7.30	6	3.32	11.46
BROOKE AMC FT SAM HOUSTON	6.30	10	3.90	9.57
DARNALL AH FT HOOD	6.32	9	4.66	9.97
MCDONALD AH FT EUSTIS	4.43	21	2.44	8.23
KENNER AH FT LEE	7.95	2	4.84	11.84
DEWITT AH FT BELVOIR	6.24	11	3.08	9.74
MADIGAN AMC FT LEWIS	2.74	32	1.81	4.53
WEED AH FT IRWIN	4.66	17	0.47	24.73
HAWLEY AH FT BENJAMIN HARRISON	3.18	30	1.24	7.30
-----				
AVERAGE	4.88			
MEDIAN	4.54			

TABLE 2  
 GOVERNMENT PSYCHIATRIC MONTHLY COSTS  
 PER 1000 ELIGIBLE BENEFICIARIES AGES 18 THROUGH 64  
 SEP 89, 90, 91, 92, AND JUN 93 RANKINGS OF POST-DEMO PERIOD  
 HEALTH SERVICES COMMAND CATCHMENT AREAS

CATCHMENT AREA	89/09 (000'S)	RANK (N=37)	90/09 (000'S)	RANK (N=37)	91/09 (000'S)	RANK (N=37)	92/09 (000'S)	RANK (N=37)	93/06 (000'S)	RANK (N=35)
FOX AH REDSTONE ARSENAL	3.74	30	4.19	29	4.26	25	2.77	32	2.18	23
MOBLE AH FT MCCLELLAN	2.92	36	4.25	28	3.15	30	4.04	22	2.40	18
LYSTER AH FT RUCKER	3.67	31	5.16	24	5.30	17	7.42	3	6.36	1
BASSETT AH FT WAINWRIGHT	2.82	37	5.60	21	2.38	36	2.27	35	1.16	31
BLISS AH FT HUACHUCA	10.41	6	8.52	8	5.93	13	10.58	1	2.99	14
LETTERMAN AMC	4.10	7	4.87	25	4.38	23	5.16	16	2.18	24
HAYS AH FT OKD	8.31	12	3.51	31	1.88	37	3.02	29	1.01	32
FITZSIMONS AMC	7.53	15	6.59	15	5.06	20	3.35	25	2.37	19
USA HOSP FT CARSON	7.24	16	6.29	16	6.65	8	4.11	21	3.37	9
WALTER REED AMC	8.75	10	12.72	1	6.96	7	6.17	8	3.43	8
EISENHOWER AMC FT GORDON	3.03	34	2.82	34	2.97	31	2.74	33	0.92	34
MARTIN AH FT BENNING	6.16	20	6.06	18	2.62	35	5.44	13	2.37	20
USA HOSP FT STEWART	9.44	7	4.49	26	5.05	21	6.69	5	3.24	10
TRIPLER AMC	8.58	11	8.57	7	5.00	22	5.55	11	2.95	15
IRVIN AH FT RILEY	6.13	21	8.99	6	9.80	3	5.49	12	3.18	12
MUNSON AH FT LEAVENWORTH	7.09	17	9.01	5	5.46	16	5.31	14	1.62	27
BLANCHFIELD AH FT CAMPBELL	3.29	33	2.71	35	3.75	27	1.49	37	1.52	28
IRELAND AH FT KNOX	6.51	19	6.17	17	5.22	18	7.00	4	2.76	17
USA HOSP FT POLK	16.84	1	8.26	10	19.00	1	4.50	19	1.17	30
KIMBROUGH AH FT MEADE	7.87	13	6.00	20	6.45	10	5.31	15	3.62	7
CUTLER AH FT DEVENS	6.00	23	5.28	23	6.10	12	4.85	17	2.78	16
WOOD AH FT LEONARD WOOD	3.36	32	2.11	37	2.89	33	3.89	23	0.85	35
PATTERSON AH FT MONMOUTH	9.18	8	3.56	30	2.90	32	3.22	27	2.17	25
WALSON AH FT DIX	4.48	25	3.28	32	5.20	19	2.98	30	.	.
KELLER AH US MILITARY ACAD	5.46	24	9.06	4	5.58	15	4.28	20	5.16	3
WOMACK AH FT BRAGG	7.84	14	8.48	9	6.58	9	4.83	18	2.29	21
REYNOLDS AH FT SILL	10.72	4	8.21	11	3.62	28	3.20	28	3.12	13
MONCRIEF AH FT JACKSON	3.81	29	4.42	27	4.32	24	2.71	34	2.15	26
BEAUMONT AMC FT BLISS	11.11	3	6.80	14	10.18	2	2.89	31	2.23	22
BROOKE AMC FT SAN HOUSTON	9.16	9	7.93	12	7.32	5	6.53	6	6.08	2
DARNALL AH FT HOOD	10.67	5	10.14	3	7.25	6	5.73	10	4.70	5
MCDONALD AH FT EUSTIS	4.39	26	6.00	19	5.73	14	3.37	24	.	.
KENNER AH FT LEE	7.08	18	10.78	2	9.26	4	5.96	9	4.54	6
DEWITT AH FT BELVOIR	6.07	22	6.92	13	6.35	11	6.46	7	5.01	4
MADIGAN AMC FT LEWIS	2.96	35	2.41	36	2.65	34	2.20	36	1.29	29
WEED AH FT IRVIN	11.91	2	5.42	22	3.25	29	9.98	2	3.20	11
HAWLEY AH FT BENJAMIN HARRISON	4.06	28	2.95	33	4.04	26	3.27	26	1.00	33
AVERAGE	6.83		6.18		5.53		4.72		2.78	
MEDIAN	6.51		6.00		5.20		4.50		2.40	

Notes:

<sup>a</sup>For reporting purposes, transferred from HSC to Air Force or Navy before 9306.

TABLE 3  
 GOVERNMENT PSYCHIATRIC COSTS  
 AVERAGE MONTHLY COST  
 PER 1000 ELIGIBLE BENEFICIARY AGES 18 THROUGH 64  
 ALL PERIODS REVIEWED  
 TOP TEN HIGH COST CATCHMENT AREAS <sup>a</sup> BY PERIOD ENDING

RANK	89/06	89/09	90/09	91/09	92/09	93/06
1.	SILL	POLK	WRAMC	POLK	HUACHUCA	RUCKER
2.	LEE	IRWIN	LEE	WBAMC	IRWIN	BAMC
3.	HUACHUCA	WBAMC	HOOD	RILEY	RUCKER	W.POINT
4.	POLK	SILL	W.POINT	LEE	KNOX	BELVOIR
5.	STEWART	HOOD	L'WORTH	BAMC	STEWART	HOOD
6.	WBAMC	HUACHUCA	RILEY	HOOD	BAMC	LEE
7.	TAMC	STEWART	TAMC	WRAMC	BELVOIR	MEADE
8.	KNOX	MONMOUTH	HUACHUCA	CARSON	WRAMC	WRAMC
9.	HOOD	BAMC	BRAGG	BRAGG	LEE	CARSON
10.	BAMC	WRAMC	POLK	MEADE	HOOD	STEWART

<sup>a</sup> BAMC = Brooke Army Medical Center  
 TAMC = Tripler Army Medical Center  
 WBAMC = William Beaumont Army Medical Center  
 WRAMC = Walter Reed Army Medical Center

TABLE 4  
 GOVERNMENT PSYCHIATRIC COSTS  
 PER ELIGIBLE BENEFICIARY AGES 18 THROUGH 64  
 BASED ON DATE OF CARE<sup>a</sup>  
 FY 1988 THROUGH JUL 1989 BY MONTH/YEAR  
 HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
 PRE-DEMO LINEAR MODEL

CATCHMENT AREA	N (MONTHS)	INTERCEPT	DATE	R <sup>2</sup>	P VALUE <sup>b</sup>
FOX AH REDSTONE ARSENAL	22	6.81	-0.0004	0.01	0.6814
NOBLE AH FT MCCLELLAN	22	-33.92	0.0036	0.29	0.0094*
LYSTER AH FT RUCKER	22	-1.44	0.0005	0.01	0.7223
BASSETT AH FT WAINWRIGHT	22	-11.47	0.0013	0.04	0.3856
BLISS AH FT HUACHUCA	22	-110.68	0.0113	0.48	0.0004*
LETTERMAN AMC	22	15.92	-0.0013	0.06	0.2842
HAYS AH FT ORD	22	-29.03	0.0032	0.23	0.0255*
FITZSIMONS AMC	22	-23.72	0.0027	0.26	0.0146*
USA HOSP FT CARSON	22	-35.03	0.0039	0.34	0.0043
WALTER REED AMC	22	-79.80	0.0081	0.56	0.0001*
EISENHOWER AMC FT GORDON	22	-9.50	0.0011	0.09	0.1832
MARTIN AH FT BENNING	22	-0.27	0.0005	0.004	0.7710
USA HOSP FT STEWART	22	-47.27	0.0052	0.20	0.0383*
TRIPLER AMC	22	58.27	-0.0049	0.21	0.0337*
IRWIN AH FT RILEY	22	-32.67	0.0036	0.29	0.0094
MUNSON AH FT LEAVENWORTH	22	-6.21	0.0011	0.02	0.5597
BLANCHFIELD AH FT CAMPBELL	22	-14.64	0.0016	0.24	0.0214*
IRELAND AH FT KNOX	22	-14.87	0.0021	0.07	0.2496
USA HOSP FT POLK	22	-108.42	0.0111	0.41	0.0014*
KIMBROUGH AH FT MEADE	22	-0.78	0.0004	0.01	0.7050
CUTLER AH FT DEVENS	22	-1.56	0.0005	0.01	0.6473
WOOD AH FT LEONARD WOOD	22	16.53	-0.0011	0.01	0.6301
PATTERSON AH FT MONMOUTH	22	-70.14	0.0071	0.60	0.0001*
WALSON AH FT DIX	22	-45.93	0.0048	0.33	0.0049*
KELLER AH US MILITARY ACAD	22	-0.60	0.0004	0.002	0.8246
WOMACK AH FT BRAGG	22	-7.34	0.0013	0.07	0.2362
REYNOLDS AH FT SILL	22	74.75	-0.0063	0.30	0.0094*
MONCRIEF AH FT JACKSON	22	-46.59	0.0047	0.44	0.0007*
BEAUMONT AMC FT BLISS	22	-53.70	0.0059	0.34	0.0046*
BROOKE AMC FT SAM HOUSTON	22	-14.22	0.0020	0.06	0.2530
DARNALL AH FT HOOD	22	-39.59	0.0044	0.46	0.0005*
MCDONALD AH FT EUSTIS	22	11.92	-0.0007	0.01	0.6357
KENNER AH FT LEE	22	14.08	-0.0006	0.004	0.7948
DEWITT AH FT BELVOIR	22	58.10	-0.0050	0.27	0.0124
MADIGAN AMC FT LEWIS	22	-4.47	0.0007	0.05	0.3045
WEED AH FT IRWIN	22	-138.39	0.0137	0.20	0.0356
HAWLEY AH FT BENJAMIN HARRISON	22	11.52	-0.0008	0.01	0.6199

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Pre-Demo period was 8710-8907.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. 1.e. .10.

TABLE 5  
 GOVERNMENT PSYCHIATRIC COSTS  
 PER ELIGIBLE BENEFICIARY AGES 18 THROUGH 64  
 BASED ON DATE OF CARE<sup>a</sup>  
 FY 1988 THROUGH JUL 1989 BY MONTH/YEAR  
 HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
 PRE-DEMO QUADRATIC MODEL

CATCHMENT AREA	N	INTERCEPT	DATE	(DATE) <sup>2</sup>	R <sup>2</sup>	P VALUE <sup>b</sup>
	(MONTHS)					
FOX AH REDSTONE ARSENAL	22	-1007.55	-0.1919	0.000009	0.14	0.2415
NOBLE AH FT MCCLELLAN	22	-1091.39	0.2060	-0.00001	0.35	0.0156
LYSTER AH FT RUCKER	22	-604.62	0.1159	-0.0000006	0.03	0.7591
BASSETT AH FT WAINWRIGHT	22	-697.91	0.1326	-0.000006	0.07	0.5275
BLISS AH FT HUACHUCA	22	-2173.61	0.4061	-0.00002	0.52	0.0010
LETTERMAN AMC	22	-1335.41	0.2573	-0.00001	0.22	0.0953*
HAYS AH FT ORD	22	141.33	-0.0294	0.000002	0.23	0.0865
FITZSIMONS AMC	22	135.07	-0.0278	0.000001	0.27	0.0532
USA HOSP FT CARSON	22	-2022.38	0.3842	-0.00002	0.56	0.0004*
WALTER REED AMC	22	403.12	-0.0843	0.00004	0.56	0.0004
EISENHOWER AMC FT GORDON	22	-179.43	0.0990	-0.000002	0.09	0.3999
MARTIN AH FT BENNING	22	-2871.63	0.5499	-0.00003	0.42	0.0055*
USA HOSP FT STEWART	22	457.43	-0.0913	0.000005	0.20	0.1173
TRIPLER AMC	22	710.08	-0.1296	-0.000006	0.22	0.1000
IRWIN AH FT RILEY	22	-1406.13	0.2664	-0.00001	0.40	0.0080*
MUNSON AH FT LEAVENWORTH	22	-1787.88	0.3421	-0.00002	0.12	0.2814
BLANCHFIELD AH FT CAMPBELL	22	-133.70	0.0244	-0.000001	0.24	0.0729
IRELAND AH FT KNOX	22	1979.19	-0.3795	0.00002	0.22	0.0952*
USA HOSP FT POLK	22	292.25	-0.0656	-0.000004	0.41	0.0069
KIMBROUGH AH FT MEADE	22	-595.87	0.1143	-0.000005	0.04	0.6816
CUTLER AH FT DEVENS	22	-352.06	0.0676	-0.000003	0.02	0.8118
WOOD AH FT LEONARD WOOD	22	-354.10	0.0698	-0.000003	0.01	0.8674
PATTERSON AH FT MONMOUTH	22	1001.52	-0.1980	0.000010	0.64	0.0001
ALSON AH FT DIX	22	-68.65	0.0091	-0.0000002	0.33	0.0212
KELLER AH US MILITARY ACAD	22	-894.93	0.1715	-0.000008	0.03	0.7165
WOMACK AH FT BRAGG	22	-359.63	0.0687	-0.000003	0.08	0.4435
REYNOLDS AH FT SILL	22	-1887.74	0.3693	-0.00002	0.36	0.0139
MONCRIEF AH FT JACKSON	22	162.85	-0.0354	0.000002	0.45	0.0037*
BEAUMONT AMC FT BLISS	22	-479.83	0.0874	-0.000004	0.34	0.0188
BROOKE AMC FT SAM HOUSTON	22	-629.81	0.1198	-0.000006	0.08	0.4503
DARNALL AH FT HOOD	22	365.73	-0.0731	0.000004	0.47	0.0024
MCDONALD AH FT EUSTIS	22	-906.55	0.1750	-0.000008	0.06	0.5671
KENNER AH FT LEE	22	-1085.46	0.2098	-0.00001	0.03	0.7232
DEWITT AH FT BELVOIR	22	-1685.26	0.3287	-0.00002	0.36	0.0150*
MADIGAN AMC FT LEWIS	22	-700.74	0.1339	-0.000006	0.19	0.1427
WEED AH FT IRWIN	22	7523.31	-1.4525	0.00007	0.36	0.0145*
HAWLEY AH FT BENJAMIN HARRISON	22	-1750.97	0.3365	-0.00002	0.16	0.1825

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Pre-Demo period was 8710-8907.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. l.e. .10.



TABLE 6  
 GOVERNMENT PSYCHIATRIC COSTS  
 PER ELIGIBLE BENEFICIARY AGES 18 THROUGH 64  
 BASED ON DATE OF CARE<sup>a</sup>  
 AUG 1989 THROUGH JUN 1993 BY MONTH/YEAR  
 HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
 POST-DEMO LINEAR MODEL

CATCHMENT AREA	N (MONTHS)	INTERCEPT	DATE	R <sup>2</sup>	P VALUE <sup>b</sup>
FOX AH REDSTONE ARSENAL	47	-0.87	0.0003	0.02	0.3851
NOBLE AH FT MCCLELLAN	47	10.77	-0.0006	0.04	0.163
LYSTER AH FT RUCKER	47	4.50	0.00002	0.00	0.963
BASSETT AH FT WAINWRIGHT	47	6.70	-0.0004	0.01	0.4614
BLISS AH FT HUACHUCA	47	63.90	-0.0049	0.49	0.0001*
LETTERMAN AMC	47	-2.54	0.0005	0.03	0.2803
HAYS AH FT ORD	47	26.84	-0.0004	0.44	0.0001
FITZSIMONS AMC	47	36.34	-0.0003	0.65	0.0001*
USA HOSP FT CARSON	47	25.32	-0.0018	0.34	0.0001*
WALTER REED AMC	47	44.34	-0.0033	0.35	0.0001*
EISENHOWER AMC FT GORDON	47	9.38	-0.0002	0.15	0.0077*
MARTIN AH FT BENNING	47	39.44	-0.0031	0.63	0.0001*
USA HOSP FT STEWART	47	45.09	-0.0034	0.39	0.0001*
TRIPLER AMC	47	45.08	-0.0034	0.63	0.0001*
IRWIN AH FT RILEY	47	34.49	-0.0025	0.27	0.0002
MUNSON AH FT LEAVENWORTH	47	26.28	-0.0018	0.23	0.0007
BLANCHFIELD AH FT CAMPBELL	47	11.33	-0.0008	0.17	0.0045
IRELAND AH FT KNOX	47	13.95	-0.0007	0.02	0.3256
USA HOSP FT POLK	47	120.86	-0.0098	0.55	0.0001*
KIMBROUGH AH FT MEADE	47	5.25	0.00008	0.001	0.8447
CUTLER AH FT DEVENS	47	17.70	-0.0011	0.11	0.0183
WOOD AH FT LEONARD WOOD	47	33.26	-0.0027	0.39	0.0001*
PATTERSON AH FT MONMOUTH	47	33.20	-0.0026	0.30	0.0001*
WALSON AH FT DIX <sup>c</sup>	38	43.06	-0.0035	0.38	0.0001*
KELLER AH US MILITARY ACAD	47	16.09	-0.0011	0.07	0.0687*
WOMACK AH FT BRAGG	47	38.20	-0.0029	0.52	0.0001
REYNOLDS AH FT SILL	47	55.70	-0.0044	0.50	0.0001*
MONCRIEF AH FT JACKSON	47	13.39	-0.0009	0.21	0.0012*
BEAUMONT AMC FT BLISS	47	91.87	-0.0074	0.71	0.0001*
BROOKE AMC FT SAM HOUSTON	47	22.02	-0.0006	0.10	0.0338*
DARNALL AH FT HOOD	47	51.29	-0.0039	0.55	0.0001*
MCDONALD AH FT EUSTIS <sup>c</sup>	40	25.74	-0.0019	0.22	0.0022
KENNER AH FT LEE	47	13.58	-0.0006	0.03	0.2787
DEWITT AH FT BELVOIR	47	1.04	0.0003	0.02	0.3763
MADIGAN AMC FT LEWIS	47	12.36	-0.0009	0.59	0.0001*
WEED AH FT IRWIN	47	42.29	-0.0032	0.09	0.0424
HAWLEY AH FT BENJAMIN HARRISON	47	9.27	-0.0003	0.06	0.1081

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Post-Demo period was 8908-9306.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. l.e. .10.

<sup>c</sup>For reporting purposes, transferred from HSC to Air Force or Navy before 9306.

TABLE 7  
 GOVERNMENT PSYCHIATRIC COSTS  
 PER ELIGIBLE BENEFICIARY AGES 18 THROUGH 64  
 BASED ON DATE OF CARE<sup>a</sup>  
 AUG 1989 THROUGH JUN 1993 BY MONTH/YEAR  
 HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
 POST-DEMO QUADRATIC MODEL

CATCHMENT AREA	N	INTERCEPT	DATE	(DATE) <sup>2</sup>	R <sup>2</sup>	P VALUE <sup>b</sup>
	(MONTHS)					
FOX AH REDSTONE ARSENAL	47	-200.53	0.0351	-0.000002	0.06	0.2462
NOBLE AH FT MCCLELLAN	47	-305.33	0.0544	-0.000002	0.12	0.0546*
LYSTER AH FT RUCKER	47	-591.74	0.1038	-0.000005	0.23	0.0029*
BASSETT AH FT WAINWRIGHT	47	-95.11	0.0174	-0.0000008	0.02	0.6525
BLISS AH FT HUACHUCA	47	95.45	-0.0104	0.0000002	0.49	0.0001
LETTERMAN AMC	47	-233.38	0.0406	-0.000002	0.08	0.1663
HAYS AH FT ORD	47	277.22	-0.0457	0.000002	0.48	0.0001*
FITZSIMONS AMC	47	-4.72	0.0043	-0.0000003	0.65	0.0001
USA HOSP FT CARSON	47	-78.93	0.0164	-0.0000008	0.35	0.0001
WALTER REED AMC	47	199.60	-0.0304	0.000001	0.35	0.0001
EISENHOWER AMC FT GORDON	47	-92.75	0.0171	-0.0000008	0.17	0.0153
MARTIN AH FT BENNING	47	225.01	-0.0354	0.000001	0.65	0.0001
USA HOSP FT STEWART	47	-61.99	0.0152	-0.0000008	0.40	0.0001
TRIPLER AMC	47	139.99	-0.0200	0.0000007	0.64	0.0001
IRWIN AH FT RILEY	47	-562.94	0.1015	-0.000005	0.40	0.0001*
MUNSON AH FT LEAVENWORTH	47	-381.02	0.0691	-0.000003	0.31	0.0002*
BLANCHFIELD AH FT CAMPBELL	47	-176.32	0.0319	-0.000001	0.24	0.0027*
IRELAND AH FT KNOX	47	-539.94	0.0957	-0.000004	0.12	0.0539*
USA HOSP FT POLK	47	-500.87	0.0984	-0.000005	0.57	0.0001
KIMBROUGH AH FT MEADE	47	-70.64	0.0131	-0.0000006	0.01	0.8598
CUTLER AH FT DEVENS	47	-312.84	0.0564	-0.000003	0.20	0.0081*
WOOD AH FT LEONARD WOOD	47	-1.70	0.0034	-0.0000003	0.39	0.0001
PATTERSON AH FT MONMOUTH	47	368.80	-0.0610	0.000003	0.34	0.0001
WALSON AH FT DIX <sup>c</sup>	38	-90.80	0.0201	-0.000001	0.39	0.0002
KELLER AH US MILITARY ACAD	47	101.98	-0.0160	0.0000007	0.08	0.1784
WOMACK AH FT BRAGG	47	-289.02	0.0541	-0.000002	0.57	0.0001*
FEYNOLDS AH FT SILL	47	398.66	-0.0641	0.000003	0.52	0.0001
MCNICRIEF AH FT JACKSON	47	83.26	-0.0131	0.0000005	0.22	0.0043
BEADMONT AMC FT BLISS	47	-329.98	0.0660	-0.000003	0.73	0.0001
BROOKE AMC FT SAM HOUSTON	47	-108.48	0.0214	-0.000001	0.10	0.0893
DARNALL AH FT HOOD	47	-31.51	0.0105	-0.0000006	0.55	0.0001
MCDONALD AH FT EUSTIS <sup>c</sup>	40	-909.57	0.1624	-0.000007	0.55	0.0001*
KENNER AH FT LEE	47	-480.75	0.0854	-0.000004	0.15	0.0298*
DEWITT AH FT BELVOIR	47	-65.86	0.0120	-0.0000005	0.02	0.6011
MADIGAN AMC FT LEWIS	47	-29.20	0.0063	-0.0000003	0.60	0.0001
WEED AH FT IRWIN	47	975.77	-0.1657	0.000007	0.15	0.0309*
HAWLEY AH FT BENJAMIN HARRISON	47	-185.44	0.0333	-0.000001	0.11	0.0788*

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Post-Demo period was 8908-9306.

\* = Best model for given catchment area, significant at Prob. l.e. .10.

<sup>c</sup>For reporting purposes, transferred from HSC to Air Force or Navy before 9306.

TABLE 8  
RATE OF INCREASE/DECREASE PER MONTH  
OF GOVERNMENT PSYCHIATRIC COSTS  
HEALTH SERVICES COMMAND CATCHMENT AREAS<sup>a, b</sup>

(\$ PER 1000 ELIGIBLE BENEFICIARIES AGES 18 THROUGH 64)

CATCHMENT AREA	PRE-DEMO <sup>c</sup> (=< 8907)		POST DEMO <sup>c</sup> (> 8907)		PRE->POST % CHANGE AT MID POINTS <sup>d</sup>
	MID POINT (8808-8809)	RANK (N=37)	MID POINT (9107-9108)	RANK (N=37)	
FOX AH REDSTONE ARSENAL <sup>f</sup>	NO TREND	19	NO TREND	2	NO CHANGE <sup>e</sup>
NOBLE AH FT MCCLELLAN	+ 111 L	13	- 22 Q	9	120% DECREASE <sup>e</sup>
LYSTER AH FT RUCKER	NO TREND	19	- 3 Q	7	100% DECREASE <sup>e</sup>
BASSETT AH FT WAINWRIGHT	NO TREND	19	NO TREND	2	NO CHANGE <sup>e</sup>
BLISS AH FT HUACHUCA	+ 352 L	2	- 153 L	36	143% DECREASE
LETTERMAN AMC <sup>h</sup>	- 40 Q	34	NO TREND	2	100% INCREASE <sup>e</sup>
HAYS AH FT ORD <sup>h</sup>	+ 100 L	15	- 64 Q	20	164% DECREASE
FITZSIMONS AMC <sup>f</sup>	+ 83 L	16	- 87 L	24	205% DECREASE
USA HOSP FT CARSON <sup>g</sup>	+ 120 Q	12	- 54 L	18	145% DECREASE
WALTER REED AMC	+ 251 L	4	- 103 L	28	141% DECREASE
EISENHOWER AMC FT GORDON	NO TREND	19	+ 21 L	1	100% INCREASE <sup>e</sup>
MARTIN AH FT BENNING <sup>f</sup>	+ 130 Q	11	- 96 L	27	174% DECREASE
USA HOSP FT STEWART <sup>f</sup>	+ 162 L	7	- 106 L	30	165% DECREASE
TRIPLER AMC <sup>h</sup>	- 152 L	35	- 107 L	31	170% INCREASE
IRWIN AH FT RILEY <sup>f</sup>	+ 110 Q	14	- 81 Q	21	174% DECREASE
MUNSON AH FT LEAVENWORTH <sup>f</sup>	NO TREND	19	- 59 Q	19	100% DECREASE <sup>e</sup>
BLANCHFIELD AH FT CAMPBELL <sup>f</sup>	+ 49 L	18	- 26 Q	11	153% DECREASE
IRELAND AH FT KNOX	+ 64 Q	17	- 26 Q	11	141% DECREASE
USA HOSP FT POLK <sup>f</sup>	+ 345 L	3	- 304 L	29	188% DECREASE
KIMBROUGH AH FT MEADE	NO TREND	19	NO TREND	2	NO CHANGE <sup>e</sup>
CUTLER AH FT DEVENS	NO TREND	19	- 37 Q	16	100% DECREASE <sup>e</sup>
WOOD AH FT LEONARD WOOD <sup>f</sup>	NO TREND	19	- 82 L	23	100% DECREASE <sup>e</sup>
PATTERSON AH FT MONMOUTH <sup>f</sup>	+ 221 L	5	- 81 L	21	137% DECREASE
WALSON AH FT DIX	+ 148 L	8	- 108 L	32	173% DECREASE
KELLER AH US MILITARY ACAD	NO TREND	19	- 33 L	15	100% DECREASE <sup>e</sup>
WOMACK AH FT BRAGG	NO TREND	19	- 91 Q	25	100% DECREASE <sup>e</sup>
REYNOLDS AH FT SILL <sup>g</sup>	- 195 L	37	- 136 L	35	30% INCREASE
MONCRIEF AH FT JACKSON <sup>f</sup>	+ 145 L	9	- 29 Q	14	120% DECREASE
BEAUMONT AMC FT BLISS <sup>f</sup>	+ 181 L	6	- 230 L	37	227% DECREASE
BROOKE AMC FT SAM HOUSTON	NO TREND	19	- 40 L	17	100% DECREASE <sup>e</sup>
DARNALL AH FT HOOD <sup>f</sup>	+ 136 L	10	- 120 L	34	188% DECREASE
MCDONALD AH FT EUSTIS	NO TREND	19	- 111 Q	33	100% DECREASE <sup>e</sup>
KENNER AH FT LEE <sup>f</sup>	NO TREND	19	- 23 Q	10	100% DECREASE <sup>e</sup>
SWITT AH FT BELVOIR	- 155 Q	36	NO TREND	2	100% INCREASE <sup>e</sup>
MADIGAN AMC FT LEWIS <sup>f</sup>	NO TREND	19	- 28 L	13	100% DECREASE <sup>e</sup>
WEED AH FT IRWIN <sup>h</sup>	+ 427 Q	1	- 94 Q	26	122% DECREASE
HAWLEY AH FT BENJAMIN HARRISON	NO TREND	19	- 19 Q	8	100% DECREASE <sup>e</sup>

**Notes:**

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time.

<sup>b</sup>Facilities with a Pre- to Post-Demo rate of change increase are highlighted.

<sup>c</sup>Based on model with best fit: L = linear model, Q = quadratic model. If "no trend", then no model was used. In Pre-Demo period fifteen "no trend" catchment areas have rank 19; in Post-Demo period five have rank 2.

<sup>d</sup>Represents the % of change from Pre-Demo to Post-Demo mid-point rate. "No change" shown if neither pre- nor post-periods showed trends.

<sup>e</sup>Zero rate of increase/decrease used for single "no trend" periods when finding % change.

<sup>f</sup>Initiated adult mental health CHAMPUS Alternate Use or GATEWAY TO CARE initiatives during the period of the analysis, many after the midpoint.

<sup>g</sup>Catchment Area Management Site as well as using CHAMPUS Alternate Use and GATEWAY TO CARE initiatives.

<sup>h</sup>California/Hawaii CHAMPUS Reform Initiative affects area.

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