

Appendix I  
Estimated Impact of an Annual  
Per-Beneficiary Outpatient Occupational  
Therapy Cap for CY 2002

## Key to Appendix I:

The tables in Appendix I provide an estimate of the number and percent of beneficiaries that might have been impacted by the outpatient therapy limitation in CY 2002 had it been applied to occupational therapy (OT) services as a separate cap.

Adjusting the \$1500 statutory cap per the Medicare Economic Index (MEI), the CY 2002 annual per-beneficiary limitation would have been \$1540 for incurred expenses (allowed amount)<sup>1</sup>. The Medicare paid amount represents the limitation after applicable deductible and coinsurance (20 percent) is applied. We estimate that in CY 2002, the average payment threshold before the cap limits were surpassed was \$1232<sup>2</sup>.

**The first column** in each table represents the demographic groups represented (e.g. age, gender, state of residence, principal claim diagnosis)<sup>3</sup>.

**The ‘Beneficiaries receiving OT services’ column** represents the total number of beneficiaries within each subgroup that received outpatient OT services in CY 2002.

**The “Beneficiaries surpassing OT cap threshold” column** identifies the estimated number of beneficiaries that surpassed the OT financial limitation threshold in CY 2002.

**The “Percent of beneficiaries surpassing OT cap threshold” column** represents the estimated percentage of beneficiaries within all outpatient occupational therapy patients in each subgroup that would have surpassed the financial limitations in CY 2002.

**The “Average paid above OT cap threshold” column** represents the estimated average Medicare payment above the OT cap threshold for all beneficiaries listed in the “Beneficiaries surpassing OT cap threshold” column. For example, If Medicare paid \$2332, the payment above the cap threshold would be \$1000 ( $\$2332 \text{ paid} - \$1232 \text{ cap threshold} = \$1000$ ).

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<sup>1</sup> Medicare Claims Processing Manual (Pub. 104), Chapter 5, Section 10.2 *The Financial Limitation*.

<sup>2</sup> Preliminary data analysis revealed that the average Medicare payment amount for outpatient therapy services was about 78-79 percent of the allowed fee schedule prices indicating that the deductible has negligible impact across all beneficiaries that received outpatient therapy services. This may be in part due to the referral requirement for outpatient therapy services. In most situations, the beneficiary's deductible is probably applied against the referring physician claim or other Part B claim that occurred earlier during the calendar year. The \$1232 threshold estimate is based upon the 20 percent coinsurance only ( $\$1540 * 80\% = \$1232$ ).

<sup>3</sup> Although beneficiaries may experience multiple episodes of one condition, or of separate conditions during a calendar year, this analysis classifies a beneficiary's diagnosis for the entire year based only upon the principal claim diagnosis first reported during the year for that therapy type.

**The “Total paid above OT cap” threshold column** represents the estimated total Medicare expenditures above an OT cap threshold in CY 2002 (“Total paid above OT cap” = “Beneficiaries surpassing OT cap threshold” \* “Average paid above OT cap threshold”).

**The “Beneficiaries that did not or could not access hospital outpatient OT” columns** represents the estimated likelihood of beneficiaries surpassing the cap threshold limits when they are unable to, or choose not to receive outpatient OT services from an outpatient hospital provider.

**Appendix I-Table 1 Occupational Therapy Cap Impact by Beneficiary Age**

Age group	Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold	Beneficiaries that did not or could not access hospital outpatient OT	
						Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold
<b>Total</b>	<b>745,240</b>	<b>129,509</b>	<b>17.4%</b>	<b>\$1,237</b>	<b>\$160,209,108</b>	<b>126,488</b>	<b>97.7%</b>
<65	85,795	11,184	13.0%	\$1,481	\$16,562,833	10,877	97.3%
65-69	82,326	10,506	12.8%	\$1,301	\$13,672,824	10,129	96.4%
70-74	103,382	15,062	14.6%	\$1,284	\$19,346,235	14,576	96.8%
75-79	126,700	21,244	16.8%	\$1,263	\$26,840,519	20,616	97.0%
80-84	134,940	26,535	19.7%	\$1,217	\$32,286,727	25,957	97.8%
85-89	116,649	24,940	21.4%	\$1,173	\$29,258,860	24,537	98.4%
90+	95,448	20,038	21.0%	\$1,110	\$22,248,592	19,796	98.8%

**Appendix I-Table 2 Occupational Therapy Cap Impact by Beneficiary Gender**

Gender group	Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold	Beneficiaries that did not or could not access hospital outpatient OT	
						Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold
<b>Total</b>	<b>745,240</b>	<b>129,509</b>	<b>17.4%</b>	<b>\$1,237</b>	<b>\$160,209,108</b>	<b>126,488</b>	<b>97.7%</b>
Female	510,081	91,681	18.0%	\$1,222	\$112,058,936	89,594	97.7%
Male	235,156	37,826	16.1%	\$1,273	\$48,147,202	36,892	97.5%

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### Appendix I-Table 3 Occupational Therapy Cap Impact by Beneficiary State

State group	Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold	Beneficiaries that did not or could not access hospital outpatient OT	
						Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold
<b>Total</b>	<b>745,240</b>	<b>129,509</b>	<b>17.4%</b>	<b>\$1,237</b>	<b>\$160,209,108</b>	<b>126,488</b>	<b>97.7%</b>
AK - Alaska	681	30	4.4%	\$1,226	\$36,770	29	96.7%
AL - Alabama	10,332	1,680	16.3%	\$1,155	\$1,941,072	1,662	98.9%
AR - Arkansas	8,158	885	10.8%	\$917	\$811,580	866	97.9%
AZ - Arizona	7,307	848	11.6%	\$1,054	\$893,673	820	96.7%
CA - California	38,721	7,439	19.2%	\$1,224	\$9,105,187	7,055	94.8%
CO - Colorado	8,717	1,108	12.7%	\$1,089	\$1,206,213	1,063	95.9%
CT - Connecticut	12,791	2,085	16.3%	\$1,164	\$2,427,711	2,046	98.1%
DC - District of Columbia	1,475	195	13.2%	\$1,185	\$230,999	178	91.3%
DE - Delaware	1,825	252	13.8%	\$1,101	\$277,510	250	99.2%
FL - Florida	69,035	23,244	33.7%	\$1,409	\$32,753,585	22,904	98.5%
GA - Georgia	14,976	2,057	13.7%	\$1,093	\$2,247,787	2,011	97.8%
HI - Hawaii	1,012	92	9.1%	\$1,039	\$95,623	91	98.9%
IA - Iowa	14,085	685	4.9%	\$936	\$641,208	657	95.9%
ID - Idaho	2,568	404	15.7%	\$1,212	\$489,608	397	98.3%
IL - Illinois	30,946	4,974	16.1%	\$1,139	\$5,665,983	4,789	96.3%
IN - Indiana	27,039	4,557	16.9%	\$1,134	\$5,169,279	4,466	98.0%
KS - Kansas	10,912	1,322	12.1%	\$953	\$1,259,218	1,297	98.1%
KY - Kentucky	11,763	2,433	20.7%	\$1,200	\$2,919,162	2,393	98.4%
LA - Louisiana	15,187	3,610	23.8%	\$1,334	\$4,814,874	3,528	97.7%
MA - Massachusetts	18,777	2,829	15.1%	\$1,488	\$4,209,099	2,770	97.9%
MD - Maryland	13,324	1,792	13.4%	\$1,033	\$1,851,441	1,734	96.8%
ME - Maine	4,358	272	6.2%	\$913	\$248,399	247	90.8%
MI - Michigan	28,310	5,449	19.2%	\$1,378	\$7,510,030	5,381	98.8%

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State group	Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold	Beneficiaries that did not or could not access hospital outpatient OT	
						Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold
MN - Minnesota	18,753	1,339	7.1%	\$896	\$1,200,159	1,309	97.8%
MO - Missouri	20,603	3,435	16.7%	\$1,026	\$3,523,142	3,363	97.9%
MS - Mississippi	8,732	2,090	23.9%	\$1,471	\$3,074,933	2,053	98.2%
MT - Montana	2,476	184	7.4%	\$1,285	\$236,370	182	98.9%
NC - North Carolina	21,379	4,627	21.6%	\$1,503	\$6,953,826	4,573	98.8%
ND - North Dakota	2,928	127	4.3%	\$920	\$116,897	111	87.4%
NE - Nebraska	6,516	622	9.5%	\$998	\$620,619	599	96.3%
NH - New Hampshire	5,272	604	11.5%	\$1,248	\$753,635	578	95.7%
NJ - New Jersey	19,894	3,058	15.4%	\$1,141	\$3,488,719	2,971	97.2%
NM - New Mexico	3,455	447	12.9%	\$1,201	\$536,758	433	96.9%
NV - Nevada	2,590	427	16.5%	\$1,521	\$649,616	415	97.2%
NY - New York	36,357	5,397	14.8%	\$1,209	\$6,524,271	5,144	95.3%
OH - Ohio	46,208	7,290	15.8%	\$1,044	\$7,611,781	7,102	97.4%
OK - Oklahoma	7,099	1,701	24.0%	\$1,465	\$2,491,999	1,681	98.8%
OR - Oregon	5,160	238	4.6%	\$965	\$229,620	228	95.8%
PA - Pennsylvania	46,913	6,229	13.3%	\$1,062	\$6,616,568	6,118	98.2%
PR - Puerto Rico	754	185	24.5%	\$1,004	\$185,738	183	98.9%
RI - Rhode Island	2,789	280	10.0%	\$1,193	\$334,060	268	95.7%
SC - South Carolina	10,750	1,761	16.4%	\$1,285	\$2,262,163	1,728	98.1%
SD - South Dakota	2,350	120	5.1%	\$871	\$104,544	113	94.2%
TN - Tennessee	11,423	2,181	19.1%	\$1,137	\$2,480,517	2,161	99.1%
TX - Texas	43,873	9,939	22.7%	\$1,286	\$12,784,834	9,796	98.6%
UT - Utah	2,644	405	15.3%	\$1,288	\$521,502	398	98.3%
VA - Virginia	19,355	3,473	17.9%	\$1,280	\$4,444,190	3,368	97.0%
VT - Vermont	1,994	209	10.5%	\$1,091	\$228,101	204	97.6%

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						Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold
WA - Washington	12,529	1,287	10.3%	\$1,077	\$1,386,305	1,236	96.0%
WI - Wisconsin	23,085	2,253	9.8%	\$1,002	\$2,258,430	2,201	97.7%
WV - West Virginia	5,274	1,097	20.8%	\$1,325	\$1,454,030	1,083	98.7%
WY - Wyoming	1,459	216	14.8%	\$1,320	\$285,211	212	98.1%
Other	327	46	14.1%	\$1,108	\$50,967	43	93.5%

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### Appendix I-Table 4 Occupational Therapy Cap Impact by Beneficiary Claim Diagnosis

Claim diagnosis group		Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold
ICD-9 Code	Diagnosis Description					
<b>Total</b>	<b>All Reported Diagnoses</b>	<b>745,240</b>	<b>129,509</b>	<b>17.4%</b>	<b>\$1,237</b>	<b>\$160,209,108</b>
436	Acute, but ill-defined, cerebrovascular disease	32,726	6,768	20.7%	\$1,453	\$9,834,716
V57.1	Other physical therapy	31,739	759	2.4%	\$1,074	\$815,204
V57.21	Occupational therapy encounter	30,178	185	0.6%	\$958	\$177,213
781.2	Abnormality of gait	27,369	7,159	26.2%	\$1,220	\$8,731,188
780.9	Other general symptoms	15,664	3,989	25.5%	\$1,207	\$4,815,960
787.2	Dysphagia	15,537	3,056	19.7%	\$1,095	\$3,344,914
799.3	Debility, unspecified	15,224	3,391	22.3%	\$1,164	\$3,947,700
728.2	Muscular wasting and disuse atrophy, not elsewhere classified	13,228	4,240	32.1%	\$1,290	\$5,468,922
719.70	Difficulty in walking, site unspecified	12,341	3,528	28.6%	\$1,149	\$4,052,472
354.0	Carpal Tunnel Syndrome	12,189	518	4.2%	\$779	\$403,273
332.0	Parkinson's Disease paralysis agitans	10,865	2,679	24.7%	\$1,296	\$3,472,600
428.0	Congestive Heart Failure, unspecified	9,939	2,427	24.4%	\$1,245	\$3,021,833
728.9	Unspecified disorder of muscle, ligament, and fascia	9,857	2,822	28.6%	\$1,236	\$3,488,331
331.0	Alzheimer's Disease	9,542	1,423	14.9%	\$881	\$1,253,421
715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	9,522	2,160	22.7%	\$1,419	\$3,063,960
780.79	Other malaise and fatigue	9,331	2,052	22.0%	\$1,319	\$2,705,665
781.92	Abnormal posture	8,354	1,121	13.4%	\$995	\$1,115,294
V57.89	Other care involving rehabilitation procedures, multiple training or therapy	7,819	271	3.5%	\$1,265	\$342,723
724.2	Lumbago	7,379	1,442	19.5%	\$1,282	\$1,848,096
719.41	Pain in joint, shoulder region	6,777	837	12.4%	\$1,112	\$931,129
496	Chronic airway obstruction, not elsewhere classified	6,716	1,197	17.8%	\$1,143	\$1,367,908
820.8	Fracture of neck of femur, unspecified part, closed	6,612	1,710	25.9%	\$1,285	\$2,197,470

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Claim diagnosis group		Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold
ICD-9 Code	Diagnosis Description					
718.44	Contracture of joint, hand	6,509	961	14.8%	\$894	\$859,566
438.0	Late effects of cerebrovascular disease, cognitive deficits	5,678	1,500	26.4%	\$1,272	\$1,908,495
401.9	Essential hypertension, unspecified type	5,625	1,568	27.9%	\$1,252	\$1,963,716
250.00	Type II Diabetes Mellitus without mention of complication	5,580	1,400	25.1%	\$1,228	\$1,719,004
781.3	Lack of coordination	5,391	1,328	24.6%	\$1,234	\$1,639,164
729.5	Pain in limb	5,355	456	8.5%	\$1,062	\$484,213
486	Pneumonia, organism unspecified	5,347	1,214	22.7%	\$1,138	\$1,381,435
438.20	Hemiplegia affecting unspecified side	5,257	802	15.3%	\$1,391	\$1,115,494
714.0	Rheumatoid arthritis	4,979	529	10.6%	\$1,234	\$652,659
813.42	Other fracture of distal end of radius (alone)	4,707	514	10.9%	\$1,100	\$565,333
290.0	Senile dementia, uncomplicated	4,702	728	15.5%	\$1,031	\$750,699
294.8	Other specified organic brain syndromes (chronic)	4,197	619	14.7%	\$962	\$595,490
457.1	Other lymphadema	3,917	229	5.8%	\$1,558	\$356,842
715.09	Osteoarthritis, generalized, multiple sites	3,860	1,328	34.4%	\$1,541	\$2,046,103
726.10	Disorders of bursa and tendons in shoulder region, unspecified	3,825	720	18.8%	\$1,398	\$1,006,200
438.9	Unspecified late effects of cerebrovascular disease	3,708	664	17.9%	\$1,264	\$839,230
340	Multiple sclerosis	3,658	599	16.4%	\$1,408	\$843,638
599.0	Urinary tract infection, site not specified	3,480	807	23.2%	\$1,136	\$917,115
719.44	Pain in joint, hand	3,419	282	8.2%	\$970	\$273,424
728.6	Contracture of palmer fascia, Dupuytren's contracture	3,375	301	8.9%	\$749	\$225,365
814.00	Fracture of carpal bone(s), closed, bone unspecified	3,352	364	10.9%	\$1,102	\$401,288
729.89	Other musculoskeletal symptoms referable to limbs, other	3,223	672	20.9%	\$1,175	\$789,721
719.79	Difficulty in walking, multiple sites	3,186	975	30.6%	\$1,265	\$1,233,209
840.4	Sprains and strains, shoulder, rotator cuff (capsule)	3,166	347	11.0%	\$994	\$344,963
733.00	Osteoporosis, unspecified	3,152	732	23.2%	\$1,102	\$806,796

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ICD-9 Code	Diagnosis Description					
729.9	Other and unspecified disorders of soft tissue	3,118	570	18.3%	\$1,058	\$603,203
727.03	Trigger finger (acquired)	3,031	120	4.0%	\$864	\$103,706
715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	3,006	339	11.3%	\$1,995	\$676,417
813.41	Colles' fracture	2,974	423	14.2%	\$921	\$389,765
715.94	Osteoarthritis, unspecified whether generalized or localized, hand	2,835	119	4.2%	\$913	\$108,633
438.21	Hemiplegia affecting dominant side	2,832	785	27.7%	\$1,500	\$1,177,830
438.22	Hemiplegia affecting non-dominant side	2,746	735	26.8%	\$1,478	\$1,086,301
783.3	feeding difficulties and mismanagement	2,640	498	18.9%	\$900	\$448,170
718.49	Contracture of joint, multiple sites	2,570	594	23.1%	\$1,006	\$597,516
435.9	Unspecified transient cerebral ischemia	2,566	427	16.6%	\$1,143	\$488,099
719.46	Pain in joint, lower leg	2,547	472	18.5%	\$1,269	\$598,812
707.0	Decubitus ulcer	2,547	532	20.9%	\$1,281	\$681,231
250.01	Type I Diabetes Mellitus without mention of complication	2,525	710	28.1%	\$1,334	\$947,041
716.90	Arthropathy, unspecified, site unspecified	2,456	560	22.8%	\$1,368	\$766,354
723.1	Cervicalgia	2,419	335	13.8%	\$1,270	\$425,433
812.20	Fracture of humerus, unspecified part of humerus, closed	2,389	565	23.7%	\$1,271	\$717,849
715.14	Osteoarthritis, localized, primary, hand	2,253	129	5.7%	\$615	\$79,367
438.89	Other late effects of cerebrovascular disease	2,238	262	11.7%	\$1,167	\$305,736
715.00	Osteoarthritis, generalized, site unspecified	2,237	521	23.3%	\$1,324	\$689,877
719.43	Pain in joint, forearm	2,201	138	6.3%	\$920	\$127,018
434.91	Cerebral artery occlusion, unspecified, with cerebral infarction	2,198	269	12.2%	\$1,459	\$392,471
812.00	Fracture of humerus, upper end, unspecified part, closed	2,156	535	24.8%	\$1,325	\$709,089
726.0	Adhesive capsulitis of shoulder	2,076	305	14.7%	\$1,240	\$378,054
781.99	Other symptoms involving nervous and musculoskeletal symptoms	2,034	309	15.2%	\$935	\$288,964
780.2	Syncope and collapse	1,969	340	17.3%	\$984	\$334,550

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ICD-9 Code	Diagnosis Description					
342.90	Hemiplegia, unspecified type, unspecified side affected	1,902	396	20.8%	\$1,491	\$590,610
427.31	Atrial fibrillation	1,880	400	21.3%	\$1,188	\$475,012
719.45	Pain in joint, pelvic region and thigh	1,868	262	14.0%	\$1,110	\$290,825
414.00	Chronic ischemic heart disease, unspecified vessel, native or graft	1,795	437	24.3%	\$1,326	\$579,401
726.2	Other affections of shoulder region, not elsewhere classified	1,785	170	9.5%	\$746	\$126,823
724.5	Backache, unspecified	1,747	178	10.2%	\$1,192	\$212,112
780.4	Dizziness and giddiness	1,729	257	14.9%	\$1,162	\$298,637
719.75	Difficulty in walking, pelvic region and thigh	1,704	458	26.9%	\$1,067	\$488,517
V72.83	Other specified preoperative examination	1,664	11	0.7%	\$1,000	\$11,005
724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	1,602	695	43.4%	\$1,338	\$930,160
276.5	Disorders of fluid, electrolyte and acid-base balance, volume depletion	1,581	283	17.9%	\$1,248	\$353,164
820.21	Fracture of neck of femur, peritrochanteric, closed, intertrochanteric section	1,572	404	25.7%	\$1,340	\$541,546
727.05	Other tenosynovitis of hand or wrist	1,543	87	5.6%	\$1,062	\$92,389
719.54	Stiffness in joint, not elsewhere classified, hand	1,501	179	11.9%	\$889	\$159,045
V57.3	Speech therapy	1,491	50	3.4%	\$1,098	\$54,914
847.2	Sprains and strains, lumbar	1,477	664	45.0%	\$1,139	\$756,004
724.02	Spinal stenosis, lumbar region	1,463	178	12.2%	\$1,314	\$233,940
723.4	Brachia neuritis or radiculitis NOS	1,436	663	46.2%	\$1,568	\$1,039,544
719.76	Difficulty in walking, lower leg	1,402	391	27.9%	\$1,206	\$471,566
729.1	Myalgia and myositis, unspecified	1,397	128	9.2%	\$1,273	\$162,899
715.16	Osteoarthritis, localized, lower leg	1,385	217	15.7%	\$1,579	\$342,704
443.9	Peripheral vascular disease, unspecified	1,377	341	24.8%	\$1,501	\$512,001
780.39	Other convulsions	1,360	281	20.7%	\$1,283	\$360,534
311	Depressive disorder, not elsewhere classified	1,353	285	21.1%	\$1,074	\$306,164
343.9	Infantile cerebral palsy, unspecified	1,352	198	14.6%	\$1,369	\$271,052

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*Task Order # 500-99-0009/0009*

*Deliverable #7 Analysis of Costliest Top 5% Report – Final*

Claim diagnosis group		Beneficiaries receiving OT services	Beneficiaries surpassing OT cap threshold	Percent of beneficiaries surpassing OT cap threshold	Average paid above OT cap threshold	Total paid above OT cap threshold
ICD-9 Code	Diagnosis Description					
298.9	Non-organic psychoses, unspecified psychosis	1,346	242	18.0%	\$1,066	\$258,042
578.9	Hemorrhage of gastrointestinal tract, unspecified	1,344	321	23.9%	\$1,346	\$432,040
716.94	Arthropathy, unspecified, hand	1,313	62	4.7%	\$828	\$51,349