

# Appendix H

## Impact Analysis:

### Application of Volume Control Edits on “Time-based” Therapy Procedure Codes (HCPCS)-Expenditure Impact by Setting (CY 2002 Reference Year)

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## Appendix H-Table 1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting - All Settings

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/Line	Paid/Line	Allowed/“Unit”	Paid/“Unit”
Total	88,925,918	151,395,951	\$3,485,100,222	\$2,744,935,693	\$39.19	\$30.87	\$23.02	\$18.13
1 “Unit”	59,419,965	59,419,965	\$1,503,448,529	\$1,185,877,897	\$25.30	\$19.96	\$25.30	\$19.96
2 “Units”	20,878,158	41,756,316	\$1,151,148,270	\$906,721,447	\$55.14	\$43.43	\$27.57	\$21.71
3 “Units”	5,814,422	17,443,266	\$490,474,941	\$383,866,158	\$84.35	\$66.02	\$28.12	\$22.01
4 “Units”	2,388,131	9,552,524	\$267,400,547	\$211,091,762	\$111.97	\$88.39	\$27.99	\$22.10
5 “Units”	195,138	975,690	\$27,117,206	\$21,411,469	\$138.96	\$109.72	\$27.79	\$21.94
6 “Units”	107,930	647,580	\$17,314,128	\$13,616,846	\$160.42	\$126.16	\$26.74	\$21.03
7 “Units”	24,357	170,499	\$4,487,245	\$3,512,039	\$184.23	\$144.19	\$26.32	\$20.60
8 “Units”	35,055	280,440	\$7,050,963	\$5,560,828	\$201.14	\$158.63	\$25.14	\$19.83
9 “Units”	7,477	67,293	\$1,707,418	\$1,360,643	\$228.36	\$181.98	\$25.37	\$20.22
10+ “Units”	49,864	21,082,378	\$14,775,277	\$11,790,847	\$296.31	\$236.46	\$0.70	\$0.56
0 “Units” <sup>1</sup>	5,421	0	\$175,698	\$125,757	\$32.41	\$23.20	N/A	N/A
<b>Total (all lines)</b>	<b>88,925,918</b>	<b>151,395,951</b>	<b>\$3,485,100,222</b>	<b>\$2,744,935,693</b>	<b>\$39.19</b>	<b>\$30.87</b>	<b>\$23.02</b>	<b>\$18.13</b>
<b>Line = 1 “Unit”</b>	<b>59,419,965</b>	<b>59,419,965</b>	<b>\$1,503,448,529</b>	<b>\$1,185,877,897</b>	<b>\$25.30</b>	<b>\$19.96</b>	<b>\$25.30</b>	<b>\$19.96</b>
<b>Line &gt; 3 “Units”</b>	<b>2,807,952</b>	<b>32,776,404</b>	<b>\$339,852,783</b>	<b>\$268,344,434</b>	<b>\$121.03</b>	<b>\$95.57</b>	<b>\$10.37</b>	<b>\$8.19</b>
<b>Impact Estimate</b>	<b>3.16%<sup>2</sup></b>	<b>24,352,548<sup>3</sup></b>	<b>\$126,711,730<sup>4</sup></b>	<b>\$100,224,769<sup>5</sup></b>				
<b>Line &gt; 4 “Units”</b>	<b>419,821</b>	<b>23,223,880</b>	<b>\$72,452,236</b>	<b>\$57,252,672</b>	<b>\$172.58</b>	<b>\$136.37</b>	<b>\$3.12</b>	<b>\$2.47</b>
<b>Impact Estimate</b>	<b>0.47%<sup>2</sup></b>	<b>21,544,596<sup>3</sup></b>	<b>\$29,962,863<sup>4</sup></b>	<b>\$23,738,250<sup>5</sup></b>				

<sup>1</sup> Some institutional provider lines with no HCPCS “Units” billed received payments. No payments were issues to non-institutional providers when HCPCS “unit” count billed= 0.

<sup>2</sup> **Number of Paid Lines Impact Estimate** = Total Number Paid Lines (all lines)/Total Number Paid Lines (Line > 3 [or 4] “Units”). In Appendix H-Table 1, this indicates that 3.16% of paid claim lines submitted with “time-based” HCPCS had > 3 “Units” billed, and 0.47% of claim lines with “time-based” HCPCS had > 4 “Units” billed.

<sup>3</sup> **Total Number of “Units” Impact Estimate** = Total Number “Units” (Line > 3 [or 4] “Units”) – (Total Number Paid Lines (Line > 3 [or 4] “Units”)\*(3 [or 4])). In Appendix H-Table 1, this indicates that 24,352,548 “time-based” HCPCS “Units” were billed in excess of 3 “Units” per line, in other words, this represents the sum of all “Units” billed when the line unit count was 4-10+ (less 3 allowed “Units”). This table also indicates that 21,544,596 “time-based” HCPCS “Units” were billed in excess of 4 “Units” per line.

<sup>4</sup> **Total Allowed Amount Impact Estimate** = Total Allowed Amount (Line > 3 [or 4] “Units”) – (Total Number Paid Lines (Line > 3 [or 4] “Units”)\*[Allowed/Line (Line = 1 “Unit”)]\* 3 [or 4] “Units”). In Appendix H-Table 1, this indicates the estimated dollar impact of allowed amounts being issued for “time-based” HCPCS lines billed with > 3 [or 4] “Units”. In this case, instead of the observed Allowed/Line of \$121.03 for lines with > 3 “Units” or of \$172.58 for lines with > 4 “Units”, the line allowed amount was adjusted to a factor of the \$25.30 observed when only 1 unit was billed/line. The \$126,711,730 impact estimate reflects the total allowed dollars above and beyond three “Units” per “time-based” HCPCS line. Similarly, the \$29,962,863 impact estimate reflects the total allowed dollars above and beyond four “Units” per “time-based” HCPCS line.

<sup>5</sup> **Total Paid Amount Impact Estimate** = Total Paid Amount (Line > 3 [or 4] “Units”) – (Total Number Paid Lines (Line > 3 [or 4] “Units”)\*[Paid/Line (Line = 1 Unit)]\* 3 [or 4] “Units”). In Appendix H-Table 1, this indicates the estimated dollar impact of paid amounts being issued for “time-based” HCPCS lines billed with > 3 [or 4] “Units”. In this case, instead of the observed Paid/Line of \$95.57 for lines with > 3 “Units” or of \$136.37 for lines with > 4 “Units”, the line paid amount was adjusted to a factor of the \$19.96 observed when only 1 unit was billed/line. The \$100,224,769 impact estimate reflects the total paid dollars above and beyond three “Units” per “time-based” HCPCS line. Similarly, the \$23,738,250 impact estimate reflects the total paid dollars above and beyond four “Units” per “time-based” HCPCS line.

## Appendix H- Table 2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Institutional Settings

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	60,166,893	110,629,191	\$2,483,068,559	\$1,947,805,934	\$41.27	\$32.37	\$22.44	\$17.61
1 “Unit”	38,899,112	38,899,112	\$1,024,956,072	\$804,769,838	\$26.35	\$20.69	\$26.35	\$20.69
2 “Units”	15,129,038	30,258,076	\$853,482,138	\$670,039,037	\$56.41	\$44.29	\$28.21	\$22.14
3 “Units”	4,133,031	12,399,093	\$355,303,506	\$276,477,869	\$85.97	\$66.89	\$28.66	\$22.30
4 “Units”	1,705,038	6,820,152	\$195,149,695	\$153,818,389	\$114.45	\$90.21	\$28.61	\$22.55
5 “Units”	142,549	712,745	\$20,264,335	\$15,971,387	\$142.16	\$112.04	\$28.43	\$22.41
6 “Units”	75,948	455,688	\$13,118,372	\$10,278,276	\$172.73	\$135.33	\$28.79	\$22.56
7 “Units”	16,306	114,142	\$3,288,408	\$2,555,696	\$201.67	\$156.73	\$28.81	\$22.39
8 “Units”	20,388	163,104	\$4,614,860	\$3,617,931	\$226.35	\$177.45	\$28.29	\$22.18
9 “Units”	4,515	40,635	\$1,130,156	\$900,107	\$250.31	\$199.36	\$27.81	\$22.15
10+ “Units”	35,547	20,766,444	\$11,585,319	\$9,251,647	\$325.92	\$260.27	\$0.56	\$0.45
0 “Units”	5,421	0	\$175,698	\$125,757	\$32.41	\$23.20	N/A	N/A
<b>Total (all lines)</b>	<b>60,166,893</b>	<b>110,629,191</b>	<b>\$2,483,068,559</b>	<b>\$1,947,805,934</b>	<b>\$41.27</b>	<b>\$32.37</b>	<b>\$22.44</b>	<b>\$17.61</b>
<b>Line = 1 “Unit”</b>	<b>38,899,112</b>	<b>38,899,112</b>	<b>\$1,024,956,072</b>	<b>\$804,769,838</b>	<b>\$26.35</b>	<b>\$20.69</b>	<b>\$26.35</b>	<b>\$20.69</b>
<b>Line &gt; 3 “Units”</b>	<b>2,000,291</b>	<b>29,072,910</b>	<b>\$249,151,145</b>	<b>\$196,393,433</b>	<b>\$124.56</b>	<b>\$98.18</b>	<b>\$8.57</b>	<b>\$6.76</b>
<b>Impact Estimate</b>	<b>3.32%</b>	<b>23,072,037</b>	<b>\$91,033,622</b>	<b>\$72,243,515</b>				
<b>Line &gt; 4 “Units”</b>	<b>295,253</b>	<b>22,252,758</b>	<b>\$54,001,450</b>	<b>\$42,575,044</b>	<b>\$182.90</b>	<b>\$144.20</b>	<b>\$2.43</b>	<b>\$1.91</b>
<b>Impact Estimate</b>	<b>0.49%</b>	<b>21,071,746</b>	<b>\$22,882,862</b>	<b>\$18,141,509</b>				

## Appendix H- Table 2.1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Hospital

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	17,531,598	30,730,781	\$804,028,584	\$617,433,619	\$45.86	\$35.22	\$26.16	\$20.09
1 “Unit”	9,949,359	9,949,359	\$252,371,062	\$191,977,696	\$25.37	\$19.30	\$25.37	\$19.30
2 “Units”	4,688,414	9,376,828	\$268,263,890	\$206,088,242	\$57.22	\$43.96	\$28.61	\$21.98
3 “Units”	1,934,606	5,803,818	\$168,329,045	\$129,064,524	\$87.01	\$66.71	\$29.00	\$22.24
4 “Units”	857,203	3,428,812	\$97,746,779	\$76,824,616	\$114.03	\$89.62	\$28.51	\$22.41
5 “Units”	48,665	243,325	\$6,762,897	\$5,324,498	\$138.97	\$109.41	\$27.79	\$21.88
6 “Units”	33,121	198,726	\$5,698,366	\$4,381,243	\$172.05	\$132.28	\$28.67	\$22.05
7 “Units”	5,915	41,405	\$1,208,265	\$897,720	\$204.27	\$151.77	\$29.18	\$21.68
8 “Units”	9,149	73,192	\$2,087,268	\$1,627,745	\$228.14	\$177.92	\$28.52	\$22.24
9 “Units”	815	7,335	\$207,202	\$163,087	\$254.24	\$200.11	\$28.25	\$22.23
10+ “Units”	3,587	1,607,981	\$1,326,022	\$1,062,598	\$369.67	\$296.24	\$0.82	\$0.66
0 “Units”	764	0	\$27,787	\$21,650	\$36.37	\$28.34	N/A	N/A
<b>Total (all lines)</b>	<b>17,531,598</b>	<b>30,730,781</b>	<b>\$804,028,584</b>	<b>\$617,433,619</b>	<b>\$45.86</b>	<b>\$35.22</b>	<b>\$26.16</b>	<b>\$20.09</b>
<b>Line = 1 “Unit”</b>	<b>9,949,359</b>	<b>9,949,359</b>	<b>\$252,371,062</b>	<b>\$191,977,696</b>	<b>\$25.37</b>	<b>\$19.30</b>	<b>\$25.37</b>	<b>\$19.30</b>
<b>Line &gt; 3 “Units”</b>	<b>958,455</b>	<b>5,600,776</b>	<b>\$115,036,799</b>	<b>\$90,281,507</b>	<b>\$120.02</b>	<b>\$94.19</b>	<b>\$20.54</b>	<b>\$16.12</b>
<b>Impact Estimate</b>	<b>5.47%</b>	<b>2,725,411</b>	<b>\$42,101,556</b>	<b>\$34,799,949</b>				
<b>Line &gt; 4 “Units”</b>	<b>101,252</b>	<b>2,171,964</b>	<b>\$17,290,021</b>	<b>\$13,456,891</b>	<b>\$170.76</b>	<b>\$132.90</b>	<b>\$7.96</b>	<b>\$6.20</b>
<b>Impact Estimate</b>	<b>0.58%</b>	<b>1,766,956</b>	<b>\$7,016,766</b>	<b>\$5,642,066</b>				

## Appendix H- Table 2.2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Skilled Nursing Facility (SNF)

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed / “Unit”	Paid/ “Unit”
Total	24,878,255	45,960,222	\$977,722,217	\$780,001,486	\$39.30	\$31.35	\$21.27	\$16.97
1 “Unit”	17,341,310	17,341,310	\$481,204,629	\$383,969,502	\$27.75	\$22.14	\$27.75	\$22.14
2 “Units”	6,025,380	12,050,760	\$342,010,027	\$272,855,459	\$56.76	\$45.28	\$28.38	\$22.64
3 “Units”	1,028,323	3,084,969	\$88,976,374	\$70,942,362	\$86.53	\$68.99	\$28.84	\$23.00
4 “Units”	383,603	1,534,412	\$44,877,907	\$35,790,660	\$116.99	\$93.30	\$29.25	\$23.33
5 “Units”	43,951	219,755	\$6,330,350	\$5,008,647	\$144.03	\$113.96	\$28.81	\$22.79
6 “Units”	18,322	109,932	\$3,135,918	\$2,504,631	\$171.16	\$136.70	\$28.53	\$22.78
7 “Units”	5,165	36,155	\$1,023,258	\$815,744	\$198.11	\$157.94	\$28.30	\$22.56
8 “Units”	5,869	46,952	\$1,301,436	\$1,039,422	\$221.75	\$177.10	\$27.72	\$22.14
9 “Units”	2,471	22,239	\$614,561	\$490,776	\$248.71	\$198.61	\$27.63	\$22.07
10+ “Units”	20,826	11,513,738	\$8,150,533	\$6,514,085	\$391.36	\$312.79	\$0.71	\$0.57
0 “Units”	3,035	0	\$97,223	\$70,198	\$32.03	\$23.13	N/A	N/A
<b>Total (all lines)</b>	<b>24,878,255</b>	<b>45,960,222</b>	<b>\$977,722,217</b>	<b>\$780,001,486</b>	<b>\$39.30</b>	<b>\$31.35</b>	<b>\$21.27</b>	<b>\$16.97</b>
<b>Line = 1 “Unit”</b>	<b>17,341,310</b>	<b>17,341,310</b>	<b>\$481,204,629</b>	<b>\$383,969,502</b>	<b>\$27.75</b>	<b>\$22.14</b>	<b>\$27.75</b>	<b>\$22.14</b>
<b>Line &gt; 3 “Units”</b>	<b>480,207</b>	<b>13,483,183</b>	<b>\$65,433,963</b>	<b>\$52,163,965</b>	<b>\$136.26</b>	<b>\$108.63</b>	<b>\$4.85</b>	<b>\$3.87</b>
<b>Impact Estimate</b>	<b>1.93%</b>	<b>12,042,562</b>	<b>\$25,458,119</b>	<b>\$20,265,883</b>				
<b>Line &gt; 4 “Units”</b>	<b>96,604</b>	<b>11,948,771</b>	<b>\$20,556,056</b>	<b>\$16,373,305</b>	<b>\$212.79</b>	<b>\$169.49</b>	<b>\$1.72</b>	<b>\$1.37</b>
<b>Impact Estimate</b>	<b>0.39%</b>	<b>11,562,355</b>	<b>\$9,833,385</b>	<b>\$7,817,322</b>				

## Appendix H- Table 2.3: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Comprehensive Outpatient Rehabilitation Facility (CORF)

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	3,632,026	5,611,255	\$145,136,462	\$115,060,762	\$39.96	\$31.68	\$25.87	\$20.51
1 “Unit”	2,394,692	2,394,692	\$62,047,688	\$49,400,676	\$25.91	\$20.63	\$25.91	\$20.63
2 “Units”	920,562	1,841,124	\$51,826,962	\$40,896,501	\$56.30	\$44.43	\$28.15	\$22.21
3 “Units”	203,242	609,726	\$17,061,368	\$13,534,015	\$83.95	\$66.59	\$27.98	\$22.20
4 “Units”	88,436	353,744	\$10,124,526	\$7,994,747	\$114.48	\$90.40	\$28.62	\$22.60
5 “Units”	13,881	69,405	\$2,067,094	\$1,641,642	\$148.92	\$118.27	\$29.78	\$23.65
6 “Units”	7,753	46,518	\$1,388,749	\$1,103,186	\$179.12	\$142.29	\$29.85	\$23.72
7 “Units”	1,428	9,996	\$281,289	\$224,038	\$196.98	\$156.89	\$28.14	\$22.41
8 “Units”	1,210	9,680	\$261,963	\$208,370	\$216.50	\$172.21	\$27.06	\$21.53
9 “Units”	44	396	\$9,958	\$8,074	\$226.31	\$183.49	\$25.15	\$20.39
10+ “Units”	291	275,974	\$53,425	\$39,574	\$183.59	\$135.99	\$0.19	\$0.14
0 “Units”	487	0	\$13,441	\$9,939	\$27.60	\$20.41	N/A	N/A
<b>Total (all lines)</b>	<b>3,632,026</b>	<b>5,611,255</b>	<b>\$145,136,462</b>	<b>\$115,060,762</b>	<b>\$39.96</b>	<b>\$31.68</b>	<b>\$25.87</b>	<b>\$20.51</b>
<b>Line = 1 “Unit”</b>	<b>2,394,692</b>	<b>2,394,692</b>	<b>\$62,047,688</b>	<b>\$49,400,676</b>	<b>\$25.91</b>	<b>\$20.63</b>	<b>\$25.91</b>	<b>\$20.63</b>
<b>Line &gt; 3 “Units”</b>	<b>113,043</b>	<b>765,713</b>	<b>\$14,187,003</b>	<b>\$11,219,631</b>	<b>\$125.50</b>	<b>\$99.25</b>	<b>\$18.53</b>	<b>\$14.65</b>
<b>Impact Estimate</b>	<b>3.11%</b>	<b>426,584</b>	<b>\$5,399,998</b>	<b>\$4,223,657</b>				
<b>Line &gt; 4 “Units”</b>	<b>24,607</b>	<b>411,969</b>	<b>\$4,062,477</b>	<b>\$3,224,884</b>	<b>\$165.09</b>	<b>\$131.06</b>	<b>\$9.86</b>	<b>\$7.83</b>
<b>Impact Estimate</b>	<b>0.68%</b>	<b>313,541</b>	<b>\$1,512,157</b>	<b>\$1,194,389</b>				

**Appendix H- Table 2.4: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Outpatient Rehabilitation Facility (ORF)**

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	14,008,652	28,055,660	\$551,724,770	\$431,760,437	\$39.38	\$30.82	\$19.67	\$15.39
1 “Unit”	9,137,952	9,137,952	\$227,533,006	\$177,989,952	\$24.90	\$19.48	\$24.90	\$19.48
2 “Units”	3,468,089	6,936,178	\$190,001,549	\$149,099,596	\$54.79	\$42.99	\$27.39	\$21.50
3 “Units”	958,141	2,874,423	\$80,249,848	\$62,389,338	\$83.76	\$65.11	\$27.92	\$21.70
4 “Units”	371,604	1,486,416	\$41,952,376	\$32,850,867	\$112.90	\$88.40	\$28.22	\$22.10
5 “Units”	35,452	177,260	\$5,029,486	\$3,937,222	\$141.87	\$111.06	\$28.37	\$22.21
6 “Units”	16,447	98,682	\$2,851,945	\$2,254,632	\$173.40	\$137.08	\$28.90	\$22.85
7 “Units”	3,747	26,229	\$767,220	\$611,499	\$204.76	\$163.20	\$29.25	\$23.31
8 “Units”	4,109	32,872	\$956,028	\$735,950	\$232.67	\$179.11	\$29.08	\$22.39
9 “Units”	1,177	10,593	\$296,989	\$237,013	\$252.33	\$201.37	\$28.04	\$22.37
10+ “Units”	10,799	7,275,055	\$2,049,075	\$1,630,398	\$189.75	\$150.98	\$0.28	\$0.22
0 “Units”	1,135	0	\$37,248	\$23,970	\$32.82	\$21.12	N/A	N/A
<b>Total (all lines)</b>	<b>14,008,652</b>	<b>28,055,660</b>	<b>\$551,724,770</b>	<b>\$431,760,437</b>	<b>\$39.38</b>	<b>\$30.82</b>	<b>\$19.67</b>	<b>\$15.39</b>
<b>Line = 1 “Unit”</b>	<b>9,137,952</b>	<b>9,137,952</b>	<b>\$227,533,006</b>	<b>\$177,989,952</b>	<b>\$24.90</b>	<b>\$19.48</b>	<b>\$24.90</b>	<b>\$19.48</b>
<b>Line &gt; 3 “Units”</b>	<b>443,335</b>	<b>9,107,107</b>	<b>\$53,903,120</b>	<b>\$42,257,581</b>	<b>\$121.59</b>	<b>\$95.32</b>	<b>\$5.92</b>	<b>\$4.64</b>
<b>Impact Estimate</b>	<b>3.16%</b>	<b>7,777,102</b>	<b>\$20,786,287</b>	<b>\$16,351,609</b>				
<b>Line &gt; 4 “Units”</b>	<b>71,731</b>	<b>7,620,691</b>	<b>\$11,950,744</b>	<b>\$9,406,714</b>	<b>\$166.61</b>	<b>\$131.14</b>	<b>\$1.57</b>	<b>\$1.23</b>
<b>Impact Estimate</b>	<b>0.51%</b>	<b>7,333,767</b>	<b>\$4,806,399</b>	<b>\$3,817,979</b>				

**Appendix H- Table 2.5: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Home Health Agency (HHA)**

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	116,362	271,273	\$4,456,526	\$3,549,631	\$38.30	\$30.51	\$16.43	\$13.09
1 “Unit”	75,799	75,799	\$1,799,686	\$1,432,012	\$23.74	\$18.89	\$23.74	\$18.89
2 “Units”	26,593	53,186	\$1,379,709	\$1,099,239	\$51.88	\$41.34	\$25.94	\$20.67
3 “Units”	8,719	26,157	\$686,871	\$547,630	\$78.78	\$62.81	\$26.26	\$20.94
4 “Units”	4,192	16,768	\$448,107	\$357,498	\$106.90	\$85.28	\$26.72	\$21.32
5 “Units”	600	3,000	\$74,507	\$59,380	\$124.18	\$98.97	\$24.84	\$19.79
6 “Units”	305	1,830	\$43,394	\$34,585	\$142.28	\$113.39	\$23.71	\$18.90
7 “Units”	51	357	\$8,376	\$6,695	\$164.24	\$131.27	\$23.46	\$18.75
8 “Units”	51	408	\$8,165	\$6,443	\$160.10	\$126.33	\$20.01	\$15.79
9 “Units”	8	72	\$1,447	\$1,158	\$180.87	\$144.70	\$20.10	\$16.08
10+ “Units”	44	93,696	\$6,264	\$4,991	\$142.36	\$113.43	\$0.07	\$0.05
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>116,362</b>	<b>271,273</b>	<b>\$4,456,526</b>	<b>\$3,549,631</b>	<b>\$38.30</b>	<b>\$30.51</b>	<b>\$16.43</b>	<b>\$13.09</b>
<b>Line = 1 “Unit”</b>	<b>75,799</b>	<b>75,799</b>	<b>\$1,799,686</b>	<b>\$1,432,012</b>	<b>\$23.74</b>	<b>\$18.89</b>	<b>\$23.74</b>	<b>\$18.89</b>
<b>Line &gt; 3 “Units”</b>	<b>5,251</b>	<b>116,131</b>	<b>\$590,259</b>	<b>\$470,749</b>	<b>\$112.41</b>	<b>\$89.65</b>	<b>\$5.08</b>	<b>\$4.05</b>
<b>Impact Estimate</b>	<b>4.51%</b>	<b>100,378</b>	<b>\$216,238</b>	<b>\$173,140</b>				
<b>Line &gt; 4 “Units”</b>	<b>1,059</b>	<b>99,363</b>	<b>\$142,152</b>	<b>\$113,251</b>	<b>\$134.23</b>	<b>\$106.94</b>	<b>\$1.43</b>	<b>\$1.14</b>
<b>Impact Estimate</b>	<b>0.91%</b>	<b>95,127</b>	<b>\$41,578</b>	<b>\$33,223</b>				

## Appendix H- Table 3: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting - Non-Institutional Settings

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	28,759,025	40,766,760	\$1,002,031,664	\$797,129,759	\$34.84	\$27.72	\$24.58	\$19.55
1 “Unit”	20,520,853	20,520,853	\$478,492,457	\$381,108,060	\$23.32	\$18.57	\$23.32	\$18.57
2 “Units”	5,749,120	11,498,240	\$297,666,133	\$236,682,410	\$51.78	\$41.17	\$25.89	\$20.58
3 “Units”	1,681,391	5,044,173	\$135,171,435	\$107,388,289	\$80.39	\$63.87	\$26.80	\$21.29
4 “Units”	683,093	2,732,372	\$72,250,852	\$57,273,373	\$105.77	\$83.84	\$26.44	\$20.96
5 “Units”	52,589	262,945	\$6,852,871	\$5,440,082	\$130.31	\$103.45	\$26.06	\$20.69
6 “Units”	31,982	191,892	\$4,195,756	\$3,338,570	\$131.19	\$104.39	\$21.87	\$17.40
7 “Units”	8,051	56,357	\$1,198,837	\$956,343	\$148.91	\$118.79	\$21.27	\$16.97
8 “Units”	14,667	117,336	\$2,436,103	\$1,942,897	\$166.09	\$132.47	\$20.76	\$16.56
9 “Units”	2,962	26,658	\$577,262	\$460,535	\$194.89	\$155.48	\$21.65	\$17.28
10+ “Units”	14,317	315,934	\$3,189,958	\$2,539,200	\$222.81	\$177.36	\$10.10	\$8.04
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>28,759,025</b>	<b>40,766,760</b>	<b>\$1,002,031,664</b>	<b>\$797,129,759</b>	<b>\$34.84</b>	<b>\$27.72</b>	<b>\$24.58</b>	<b>\$19.55</b>
<b>Line = 1 “Unit”</b>	<b>20,520,853</b>	<b>20,520,853</b>	<b>\$478,492,457</b>	<b>\$381,108,060</b>	<b>\$23.32</b>	<b>\$18.57</b>	<b>\$23.32</b>	<b>\$18.57</b>
<b>Line &gt; 3 “Units”</b>	<b>807,661</b>	<b>3,703,494</b>	<b>\$90,701,639</b>	<b>\$71,951,001</b>	<b>\$112.30</b>	<b>\$89.09</b>	<b>\$24.49</b>	<b>\$19.43</b>
<b>Impact Estimate</b>	<b>2.81%</b>	<b>1,280,511</b>	<b>\$34,204,031</b>	<b>\$26,951,977</b>				
<b>Line &gt; 4 “Units”</b>	<b>124,568</b>	<b>971,122</b>	<b>\$18,450,786</b>	<b>\$14,677,628</b>	<b>\$148.12</b>	<b>\$117.83</b>	<b>\$19.00</b>	<b>\$15.11</b>
<b>Impact Estimate</b>	<b>0.43%</b>	<b>472,850</b>	<b>\$6,832,390</b>	<b>\$5,423,847</b>				

## Appendix H- Table 3.1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Physical Therapist in Private Practice (PTPP)

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	18,484,386	26,593,804	\$662,069,398	\$526,658,445	\$35.82	\$28.49	\$24.90	\$19.80
1 “Unit”	12,873,283	12,873,283	\$301,657,904	\$240,267,915	\$23.43	\$18.66	\$23.43	\$18.66
2 “Units”	3,853,221	7,706,442	\$202,617,762	\$161,114,193	\$52.58	\$41.81	\$26.29	\$20.91
3 “Units”	1,223,969	3,671,907	\$99,100,717	\$78,744,070	\$80.97	\$64.34	\$26.99	\$21.45
4 “Units”	484,947	1,939,788	\$51,949,567	\$41,176,482	\$107.12	\$84.91	\$26.78	\$21.23
5 “Units”	28,809	144,045	\$3,772,669	\$2,990,246	\$130.95	\$103.80	\$26.19	\$20.76
6 “Units”	10,650	63,900	\$1,404,158	\$1,117,702	\$131.85	\$104.95	\$21.97	\$17.49
7 “Units”	1,213	8,491	\$177,334	\$140,896	\$146.19	\$116.16	\$20.88	\$16.59
8 “Units”	1,976	15,808	\$310,487	\$247,170	\$157.13	\$125.09	\$19.64	\$15.64
9 “Units”	662	5,958	\$115,473	\$91,916	\$174.43	\$138.85	\$19.38	\$15.43
10+ “Units”	5,656	164,182	\$963,327	\$767,855	\$170.32	\$135.76	\$5.87	\$4.68
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>18,484,386</b>	<b>26,593,804</b>	<b>\$662,069,398</b>	<b>\$526,658,445</b>	<b>\$35.82</b>	<b>\$28.49</b>	<b>\$24.90</b>	<b>\$19.80</b>
<b>Line = 1 “Unit”</b>	<b>12,873,283</b>	<b>12,873,283</b>	<b>\$301,657,904</b>	<b>\$240,267,915</b>	<b>\$23.43</b>	<b>\$18.66</b>	<b>\$23.43</b>	<b>\$18.66</b>
<b>Line &gt; 3 “Units”</b>	<b>533,913</b>	<b>2,342,172</b>	<b>\$58,693,015</b>	<b>\$46,532,267</b>	<b>\$109.93</b>	<b>\$87.15</b>	<b>\$25.06</b>	<b>\$19.87</b>
<b>Impact Estimate</b>	<b>2.89%</b>	<b>740,433</b>	<b>\$21,159,681</b>	<b>\$16,637,291</b>				
<b>Line &gt; 4 “Units”</b>	<b>48,966</b>	<b>402,384</b>	<b>\$6,743,448</b>	<b>\$5,355,786</b>	<b>\$137.72</b>	<b>\$109.38</b>	<b>\$16.76</b>	<b>\$13.31</b>
<b>Impact Estimate</b>	<b>0.26%</b>	<b>206,520</b>	<b>\$2,153,792.82</b>	<b>\$1,700,165</b>				



**Appendix H- Table 3.2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Occupational Therapist in Private Practice (OTPP)**

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	807,848	1,352,075	\$36,047,407	\$28,699,640	\$44.62	\$35.53	\$26.66	\$21.23
1 “Unit”	452,730	452,730	\$11,368,455	\$9,060,979	\$25.11	\$20.01	\$25.11	\$20.01
2 “Units”	247,540	495,080	\$13,606,201	\$10,836,976	\$54.97	\$43.78	\$27.48	\$21.89
3 “Units”	58,628	175,884	\$4,820,536	\$3,834,518	\$82.22	\$65.40	\$27.41	\$21.80
4 “Units”	36,726	146,904	\$3,980,715	\$3,159,484	\$108.39	\$86.03	\$27.10	\$21.51
5 “Units”	7,859	39,295	\$1,293,829	\$1,032,677	\$164.63	\$131.40	\$32.93	\$26.28
6 “Units”	1,858	11,148	\$309,388	\$246,108	\$166.52	\$132.46	\$27.75	\$22.08
7 “Units”	325	2,275	\$57,874	\$45,864	\$178.07	\$141.12	\$25.44	\$20.16
8 “Units”	540	4,320	\$105,383	\$83,812	\$195.15	\$155.21	\$24.39	\$19.40
9 “Units”	227	2,043	\$49,121	\$38,661	\$216.39	\$170.31	\$24.04	\$18.92
10+ “Units”	1,415	22,396	\$455,903	\$360,563	\$322.19	\$254.81	\$20.36	\$16.10
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>807,848</b>	<b>1,352,075</b>	<b>\$36,047,407</b>	<b>\$28,699,640</b>	<b>\$44.62</b>	<b>\$35.53</b>	<b>\$26.66</b>	<b>\$21.23</b>
<b>Line = 1 “Unit”</b>	<b>452,730</b>	<b>452,730</b>	<b>\$11,368,455</b>	<b>\$9,060,979</b>	<b>\$25.11</b>	<b>\$20.01</b>	<b>\$25.11</b>	<b>\$20.01</b>
<b>Line &gt; 3 “Units”</b>	<b>48,950</b>	<b>228,381</b>	<b>\$6,252,214</b>	<b>\$4,967,168</b>	<b>\$127.73</b>	<b>\$101.47</b>	<b>\$27.38</b>	<b>\$21.75</b>
<b>Impact Estimate</b>	<b>6.06%</b>	<b>81,531</b>	<b>\$2,564,680</b>	<b>\$2,028,099</b>				
<b>Line &gt; 4 “Units”</b>	<b>12,224</b>	<b>81,477</b>	<b>\$2,271,499</b>	<b>\$1,807,685</b>	<b>\$185.82</b>	<b>\$147.88</b>	<b>\$27.88</b>	<b>\$22.19</b>
<b>Impact Estimate</b>	<b>1.51%</b>	<b>32,581</b>	<b>\$1,043,677</b>	<b>\$829,076</b>				

**Appendix H- Table 3.3: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Physician**

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	9,405,225	12,725,583	\$301,977,488	\$240,226,722	\$32.11	\$25.54	\$23.73	\$18.88
1 “Unit”	7,161,338	7,161,338	\$164,742,816	\$131,202,580	\$23.00	\$18.32	\$23.00	\$18.32
2 “Units”	1,624,046	3,248,092	\$80,489,523	\$63,970,398	\$49.56	\$39.39	\$24.78	\$19.69
3 “Units”	396,490	1,189,470	\$31,098,642	\$24,689,145	\$78.43	\$62.27	\$26.14	\$20.76
4 “Units”	160,128	640,512	\$16,231,315	\$12,866,715	\$101.36	\$80.35	\$25.34	\$20.09
5 “Units”	15,904	79,520	\$1,784,663	\$1,415,872	\$112.21	\$89.03	\$22.44	\$17.81
6 “Units”	19,406	116,436	\$2,474,031	\$1,968,301	\$127.49	\$101.43	\$21.25	\$16.90
7 “Units”	6,482	45,374	\$959,316	\$766,132	\$148.00	\$118.19	\$21.14	\$16.88
8 “Units”	12,117	96,936	\$2,014,757	\$1,607,614	\$166.28	\$132.67	\$20.78	\$16.58
9 “Units”	2,071	18,639	\$412,286	\$329,652	\$199.08	\$159.18	\$22.12	\$17.69
10+ “Units”	7,243	129,266	\$1,770,139	\$1,410,312	\$244.39	\$194.71	\$13.69	\$10.91
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>9,405,225</b>	<b>12,725,583</b>	<b>\$301,977,488</b>	<b>\$240,226,722</b>	<b>\$32.11</b>	<b>\$25.54</b>	<b>\$23.73</b>	<b>\$18.88</b>
<b>Line = 1 “Unit”</b>	<b>7,161,338</b>	<b>7,161,338</b>	<b>\$164,742,816</b>	<b>\$131,202,580</b>	<b>\$23.00</b>	<b>\$18.32</b>	<b>\$23.00</b>	<b>\$18.32</b>
<b>Line &gt; 3 “Units”</b>	<b>223,351</b>	<b>1,126,683</b>	<b>\$25,646,506</b>	<b>\$20,364,598</b>	<b>\$114.83</b>	<b>\$91.18</b>	<b>\$22.76</b>	<b>\$18.07</b>
<b>Impact Estimate</b>	<b>2.37%</b>	<b>456,630</b>	<b>\$10,232,289</b>	<b>\$8,088,584</b>				
<b>Line &gt; 4 “Units”</b>	<b>63,223</b>	<b>486,171</b>	<b>\$9,415,191</b>	<b>\$7,497,883</b>	<b>\$148.92</b>	<b>\$118.59</b>	<b>\$19.37</b>	<b>\$15.42</b>
<b>Impact Estimate</b>	<b>0.67%</b>	<b>233,279</b>	<b>\$3,597,544</b>	<b>\$2,864,659</b>				



# **Appendix H- Table 3.4: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Setting – Non-Physician Practitioner**

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Units”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	61,566	95,298	\$1,937,371	\$1,544,951	\$31.47	\$25.09	\$20.33	\$16.21
1 “Unit”	33,502	33,502	\$723,282	\$576,586	\$21.59	\$17.21	\$21.59	\$17.21
2 “Units”	24,313	48,626	\$952,647	\$760,843	\$39.18	\$31.29	\$19.59	\$15.65
3 “Units”	2,304	6,912	\$151,540	\$120,555	\$65.77	\$52.32	\$21.92	\$17.44
4 “Units”	1,292	5,168	\$89,254	\$70,693	\$69.08	\$54.72	\$17.27	\$13.68
5 “Units”	17	85	\$1,709	\$1,287	\$100.52	\$75.71	\$20.10	\$15.14
6 “Units”	68	408	\$8,179	\$6,459	\$120.29	\$94.99	\$20.05	\$15.83
7 “Units”	31	217	\$4,313	\$3,451	\$139.13	\$111.31	\$19.88	\$15.90
8 “Units”	34	272	\$5,476	\$4,301	\$161.07	\$126.51	\$20.13	\$15.81
9 “Units”	2	18	\$382	\$306	\$190.98	\$152.79	\$21.22	\$16.98
10+ “Units”	3	90	\$588	\$471	\$196.13	\$156.91	\$6.54	\$5.23
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>61,566</b>	<b>95,298</b>	<b>\$1,937,371</b>	<b>\$1,544,951</b>	<b>\$31.47</b>	<b>\$25.09</b>	<b>\$20.33</b>	<b>\$16.21</b>
<b>Line = 1 “Unit”</b>	<b>33,502</b>	<b>33,502</b>	<b>\$723,282</b>	<b>\$576,586</b>	<b>\$21.59</b>	<b>\$17.21</b>	<b>\$21.59</b>	<b>\$17.21</b>
<b>Line &gt; 3 “Units”</b>	<b>1,447</b>	<b>6,258</b>	<b>\$109,903</b>	<b>\$86,967</b>	<b>\$75.95</b>	<b>\$60.10</b>	<b>\$17.56</b>	<b>\$13.90</b>
<b>Impact Estimate</b>	<b>2.35%</b>	<b>1,917</b>	<b>\$16,184</b>	<b>\$12,257</b>				
<b>Line &gt; 4 “Units”</b>	<b>155</b>	<b>1,090</b>	<b>\$20,648</b>	<b>\$16,274</b>	<b>\$133.21</b>	<b>\$105.00</b>	<b>\$18.94</b>	<b>\$14.93</b>
<b>Impact Estimate</b>	<b>0.25%</b>	<b>470</b>	<b>\$7,263</b>	<b>\$5,604</b>				