

Appendix I  
Impact Analysis:  
Application of Volume Control Edits on  
“Time-based” Therapy Procedure Codes  
(HCPCS)-Expenditure Impact by Therapy  
Type  
(CY 2002 Reference Year)

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## Appendix I-Table 1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – PT, OT, SLP Combined

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> <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 I- Table 2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – Physical Therapy

Number of “Time-based” HCPCS Billed per Paid Line	Total Number Paid Lines	Total Number “Unit”	Total Allowed Amount	Total Paid Amount	Allowed/ Line	Paid/ Line	Allowed/ “Unit”	Paid/ “Unit”
Total	73,678,490	119,894,858	\$2,759,412,537	\$2,171,354,960	\$37.45	\$29.47	\$23.02	\$18.11
1 “Unit”	50,791,337	50,791,337	\$1,256,600,697	\$990,462,345	\$24.74	\$19.50	\$24.74	\$19.50
2 “Units”	16,220,437	32,440,874	\$878,241,717	\$690,508,172	\$54.14	\$42.57	\$27.07	\$21.29
3 “Units”	4,600,824	13,802,472	\$381,928,625	\$299,284,932	\$83.01	\$65.05	\$27.67	\$21.68
4 “Units”	1,772,622	7,090,488	\$194,920,852	\$153,445,740	\$109.96	\$86.56	\$27.49	\$21.64
5 “Units”	128,374	641,870	\$17,101,865	\$13,487,731	\$133.22	\$105.07	\$26.64	\$21.01
6 “Units”	74,046	444,276	\$11,330,134	\$8,887,313	\$153.01	\$120.02	\$25.50	\$20.00
7 “Units”	18,072	126,504	\$3,224,448	\$2,506,817	\$178.42	\$138.71	\$25.49	\$19.82
8 “Units”	25,771	206,168	\$4,890,886	\$3,866,085	\$189.78	\$150.02	\$23.72	\$18.75
9 “Units”	5,572	50,148	\$1,224,026	\$976,505	\$219.67	\$175.25	\$24.41	\$19.47
10+ “Units”	36,820	14,300,721	\$9,804,023	\$7,824,681	\$266.27	\$212.51	\$0.69	\$0.55
0 “Units”	4,615	0	\$145,265	\$104,638	\$31.48	\$22.67	N/A	N/A
<b>Total (all lines)</b>	<b>73,678,490</b>	<b>119,894,858</b>	<b>\$2,759,412,537</b>	<b>\$2,171,354,960</b>	<b>\$37.45</b>	<b>\$29.47</b>	<b>\$23.02</b>	<b>\$18.11</b>
<b>Line = 1 “Unit”</b>	<b>50,791,337</b>	<b>50,791,337</b>	<b>\$1,256,600,697</b>	<b>\$990,462,345</b>	<b>\$24.74</b>	<b>\$19.50</b>	<b>\$24.74</b>	<b>\$19.50</b>
<b>Line &gt; 3 “Units”</b>	<b>2,061,277</b>	<b>22,860,175</b>	<b>\$242,496,234</b>	<b>\$190,994,873</b>	<b>\$117.64</b>	<b>\$92.66</b>	<b>\$10.61</b>	<b>\$8.35</b>
<b>Impact Estimate</b>	<b>2.80%</b>	<b>16,676,344</b>	<b>\$89,505,452</b>	<b>\$70,406,361</b>				
<b>Line &gt; 4 “Units”</b>	<b>288,655</b>	<b>15,769,687</b>	<b>\$47,575,382</b>	<b>\$37,549,133</b>	<b>\$164.82</b>	<b>\$130.08</b>	<b>\$3.02</b>	<b>\$2.38</b>
<b>Impact Estimate</b>	<b>0.39%</b>	<b>14,615,067</b>	<b>\$19,009,560</b>	<b>\$15,033,332</b>				

## Appendix I- Table 2.1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – PT 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	45,776,549	80,559,049	\$1,795,463,454	\$1,404,543,602	\$39.22	\$30.68	\$22.29	\$17.43
1 “Unit”	30,751,015	30,751,015	\$790,129,769	\$618,935,249	\$25.69	\$20.13	\$25.69	\$20.13
2 “Units”	10,734,265	21,468,530	\$595,006,955	\$465,319,331	\$55.43	\$43.35	\$27.72	\$21.67
3 “Units”	2,982,312	8,946,936	\$251,918,480	\$196,002,019	\$84.47	\$65.72	\$28.16	\$21.91
4 “Units”	1,127,821	4,511,284	\$126,833,902	\$99,477,074	\$112.46	\$88.20	\$28.11	\$22.05
5 “Units”	83,734	418,670	\$11,554,664	\$9,089,689	\$137.99	\$108.55	\$27.60	\$21.71
6 “Units”	44,012	264,072	\$7,458,689	\$5,806,608	\$169.47	\$131.93	\$28.24	\$21.99
7 “Units”	10,351	72,457	\$2,084,375	\$1,597,051	\$201.37	\$154.29	\$28.77	\$22.04
8 “Units”	11,660	93,280	\$2,563,418	\$2,009,601	\$219.85	\$172.35	\$27.48	\$21.54
9 “Units”	2,841	25,569	\$696,725	\$555,303	\$245.24	\$195.46	\$27.25	\$21.72
10+ “Units”	23,923	14,007,236	\$7,071,213	\$5,647,039	\$295.58	\$236.05	\$0.50	\$0.40
0 “Units”	4,615	0	\$145,265	\$104,638	\$31.48	\$22.67	N/A	N/A
<b>Total (all lines)</b>	<b>45,776,549</b>	<b>80,559,049</b>	<b>\$1,795,463,454</b>	<b>\$1,404,543,602</b>	<b>\$39.22</b>	<b>\$30.68</b>	<b>\$22.29</b>	<b>\$17.43</b>
<b>Line = 1 “Unit”</b>	<b>30,751,015</b>	<b>30,751,015</b>	<b>\$790,129,769</b>	<b>\$618,935,249</b>	<b>\$25.69</b>	<b>\$20.13</b>	<b>\$25.69</b>	<b>\$20.13</b>
<b>Line &gt; 3 “Units”</b>	<b>1,304,342</b>	<b>19,392,568</b>	<b>\$158,262,985</b>	<b>\$124,182,364</b>	<b>\$121.34</b>	<b>\$95.21</b>	<b>\$8.16</b>	<b>\$6.40</b>
<b>Impact Estimate</b>	<b>2.85%</b>	<b>15,479,542</b>	<b>\$57,720,017</b>	<b>\$45,423,672</b>				
<b>Line &gt; 4 “Units”</b>	<b>176,521</b>	<b>14,881,284</b>	<b>\$31,429,083</b>	<b>\$24,705,291</b>	<b>\$178.05</b>	<b>\$139.96</b>	<b>\$2.11</b>	<b>\$1.66</b>
<b>Impact Estimate</b>	<b>0.39%</b>	<b>14,175,200</b>	<b>\$13,286,658</b>	<b>\$10,493,718</b>				

## Appendix I- Table 2.2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – PT 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	27,901,941	39,335,809	\$963,949,083	\$766,811,358	\$34.55	\$27.48	\$24.51	\$19.49
1 “Unit”	20,040,322	20,040,322	\$466,470,928	\$371,527,096	\$23.28	\$18.54	\$23.28	\$18.54
2 “Units”	5,486,172	10,972,344	\$283,234,762	\$225,188,841	\$51.63	\$41.05	\$25.81	\$20.52
3 “Units”	1,618,512	4,855,536	\$130,010,145	\$103,282,913	\$80.33	\$63.81	\$26.78	\$21.27
4 “Units”	644,801	2,579,204	\$68,086,950	\$53,968,667	\$105.59	\$83.70	\$26.40	\$20.92
5 “Units”	44,640	223,200	\$5,547,201	\$4,398,042	\$124.27	\$98.52	\$24.85	\$19.70
6 “Units”	30,034	180,204	\$3,871,446	\$3,080,706	\$128.90	\$102.57	\$21.48	\$17.10
7 “Units”	7,721	54,047	\$1,140,073	\$909,766	\$147.66	\$117.83	\$21.09	\$16.83
8 “Units”	14,111	112,888	\$2,327,468	\$1,856,484	\$164.94	\$131.56	\$20.62	\$16.45
9 “Units”	2,731	24,579	\$527,300	\$421,202	\$193.08	\$154.23	\$21.45	\$17.14
10+ “Units”	12,897	293,485	\$2,732,811	\$2,177,642	\$211.90	\$168.85	\$9.31	\$7.42
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>27,901,941</b>	<b>39,335,809</b>	<b>\$963,949,083</b>	<b>\$766,811,358</b>	<b>\$34.55</b>	<b>\$27.48</b>	<b>\$24.51</b>	<b>\$19.49</b>
<b>Line = 1 “Unit”</b>	<b>20,040,322</b>	<b>20,040,322</b>	<b>\$466,470,928</b>	<b>\$371,527,096</b>	<b>\$23.28</b>	<b>\$18.54</b>	<b>\$23.28</b>	<b>\$18.54</b>
<b>Line &gt; 3 “Units”</b>	<b>756,935</b>	<b>3,467,607</b>	<b>\$84,233,249</b>	<b>\$66,812,509</b>	<b>\$111.28</b>	<b>\$88.27</b>	<b>\$24.29</b>	<b>\$19.27</b>
<b>Impact Estimate</b>	<b>2.71%</b>	<b>1,196,802</b>	<b>\$31,376,588</b>	<b>\$24,714,104</b>				
<b>Line &gt; 4 “Units”</b>	<b>112,134</b>	<b>888,403</b>	<b>\$16,146,299</b>	<b>\$12,843,842</b>	<b>\$143.99</b>	<b>\$114.54</b>	<b>\$18.17</b>	<b>\$14.46</b>
<b>Impact Estimate</b>	<b>0.40%</b>	<b>439,867</b>	<b>\$5,705,897</b>	<b>\$4,528,443</b>				

## Appendix I-Table 3: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – Occupational Therapy

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	14,632,023	30,406,656	\$698,178,144	\$551,724,845	\$47.72	\$37.71	\$22.96	\$18.14
1 “Unit”	8,258,214	8,258,214	\$236,169,359	\$186,922,559	\$28.60	\$22.63	\$28.60	\$22.63
2 “Units”	4,489,680	8,979,360	\$263,567,921	\$208,770,196	\$58.71	\$46.50	\$29.35	\$23.25
3 “Units”	1,169,812	3,509,436	\$104,984,320	\$81,764,541	\$89.74	\$69.90	\$29.91	\$23.30
4 “Units”	586,721	2,346,884	\$69,439,633	\$55,235,029	\$118.35	\$94.14	\$29.59	\$23.54
5 “Units”	64,581	322,905	\$9,719,499	\$7,688,021	\$150.50	\$119.04	\$30.10	\$23.81
6 “Units”	33,032	198,192	\$5,842,680	\$4,617,576	\$176.88	\$139.79	\$29.48	\$23.30
7 “Units”	6,143	43,001	\$1,236,092	\$983,918	\$201.22	\$160.17	\$28.75	\$22.88
8 “Units”	8,798	70,384	\$2,036,159	\$1,613,398	\$231.43	\$183.38	\$28.93	\$22.92
9 “Units”	1,847	16,623	\$469,637	\$373,143	\$254.27	\$202.03	\$28.25	\$22.45
10+ “Units”	12,395	6,661,657	\$4,682,701	\$3,735,522	\$377.79	\$301.37	\$0.70	\$0.56
0 “Units”	800	0	\$30,143	\$20,942	\$37.68	\$26.18	N/A	N/A
<b>Total (all lines)</b>	<b>14,632,023</b>	<b>30,406,656</b>	<b>\$698,178,144</b>	<b>\$551,724,845</b>	<b>\$47.72</b>	<b>\$37.71</b>	<b>\$22.96</b>	<b>\$18.14</b>
<b>Line = 1 “Unit”</b>	<b>8,258,214</b>	<b>8,258,214</b>	<b>\$236,169,359</b>	<b>\$186,922,559</b>	<b>\$28.60</b>	<b>\$22.63</b>	<b>\$28.60</b>	<b>\$22.63</b>
<b>Line &gt; 3 “Units”</b>	<b>713,517</b>	<b>9,659,646</b>	<b>\$93,426,401</b>	<b>\$74,246,607</b>	<b>\$130.94</b>	<b>\$104.06</b>	<b>\$9.67</b>	<b>\$7.69</b>
<b>Impact Estimate</b>	<b>4.88%</b>	<b>7,519,095</b>	<b>\$32,210,675</b>	<b>\$25,795,783</b>				
<b>Line &gt; 4 “Units”</b>	<b>126,796</b>	<b>7,312,762</b>	<b>\$23,986,767</b>	<b>\$19,011,579</b>	<b>\$189.18</b>	<b>\$149.94</b>	<b>\$3.28</b>	<b>\$2.60</b>
<b>Impact Estimate</b>	<b>0.87%</b>	<b>6,805,578</b>	<b>\$9,482,261</b>	<b>\$7,531,599</b>				

### Appendix I-Table 3.1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – OT 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	13,774,969	28,975,763	\$660,097,431	\$521,407,909	\$47.92	\$37.85	\$22.78	\$17.99
1 “Unit”	7,777,700	7,777,700	\$224,148,788	\$177,342,362	\$28.82	\$22.80	\$28.82	\$22.80
2 “Units”	4,226,733	8,453,466	\$249,136,599	\$197,276,666	\$58.94	\$46.67	\$29.47	\$23.34
3 “Units”	1,106,942	3,320,826	\$99,823,628	\$77,659,614	\$90.18	\$70.16	\$30.06	\$23.39
4 “Units”	548,432	2,193,728	\$65,275,993	\$51,930,532	\$119.02	\$94.69	\$29.76	\$23.67
5 “Units”	56,632	283,160	\$8,413,829	\$6,645,982	\$148.57	\$117.35	\$29.71	\$23.47
6 “Units”	31,084	186,504	\$5,518,369	\$4,359,711	\$177.53	\$140.26	\$29.59	\$23.38
7 “Units”	5,813	40,691	\$1,177,328	\$937,342	\$202.53	\$161.25	\$28.93	\$23.04
8 “Units”	8,242	65,936	\$1,927,524	\$1,526,984	\$233.87	\$185.27	\$29.23	\$23.16
9 “Units”	1,616	14,544	\$419,676	\$333,810	\$259.70	\$206.57	\$28.86	\$22.95
10+ “Units”	10,975	6,639,208	\$4,225,554	\$3,373,964	\$385.02	\$307.42	\$0.64	\$0.51
0 “Units”	800	0	\$30,143	\$20,942	\$37.68	\$26.18	N/A	N/A
<b>Total (all lines)</b>	<b>13,774,969</b>	<b>28,975,763</b>	<b>\$660,097,431</b>	<b>\$521,407,909</b>	<b>\$47.92</b>	<b>\$37.85</b>	<b>\$22.78</b>	<b>\$17.99</b>
<b>Line = 1 “Unit”</b>	<b>7,777,700</b>	<b>7,777,700</b>	<b>\$224,148,788</b>	<b>\$177,342,362</b>	<b>\$28.82</b>	<b>\$22.80</b>	<b>\$28.82</b>	<b>\$22.80</b>
<b>Line &gt; 3 “Units”</b>	<b>662,794</b>	<b>9,423,771</b>	<b>\$86,958,273</b>	<b>\$69,108,325</b>	<b>\$131.20</b>	<b>\$104.27</b>	<b>\$9.23</b>	<b>\$7.33</b>
<b>Impact Estimate</b>	<b>4.81%</b>	<b>7,435,389</b>	<b>\$29,654,260</b>	<b>\$23,770,453</b>				
<b>Line &gt; 4 “Units”</b>	<b>114,362</b>	<b>7,230,043</b>	<b>\$21,682,280</b>	<b>\$17,177,793</b>	<b>\$189.59</b>	<b>\$150.21</b>	<b>\$3.00</b>	<b>\$2.38</b>
<b>Impact Estimate</b>	<b>0.83%</b>	<b>6,772,595</b>	<b>\$8,498,895</b>	<b>\$6,747,343</b>				

### Appendix I-Table 3.2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – OT 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	857,054	1,430,893	\$38,080,714	\$30,316,937	\$44.43	\$35.37	\$26.61	\$21.19
1 “Unit”	480,514	480,514	\$12,020,571	\$9,580,197	\$25.02	\$19.94	\$25.02	\$19.94
2 “Units”	262,947	525,894	\$14,431,323	\$11,493,530	\$54.88	\$43.71	\$27.44	\$21.86
3 “Units”	62,870	188,610	\$5,160,692	\$4,104,927	\$82.09	\$65.29	\$27.36	\$21.76
4 “Units”	38,289	153,156	\$4,163,641	\$3,304,497	\$108.74	\$86.30	\$27.19	\$21.58
5 “Units”	7,949	39,745	\$1,305,669	\$1,042,040	\$164.26	\$131.09	\$32.85	\$26.22
6 “Units”	1,948	11,688	\$324,311	\$257,865	\$166.48	\$132.37	\$27.75	\$22.06
7 “Units”	330	2,310	\$58,764	\$46,577	\$178.07	\$141.14	\$25.44	\$20.16
8 “Units”	556	4,448	\$108,635	\$86,413	\$195.39	\$155.42	\$24.42	\$19.43
9 “Units”	231	2,079	\$49,961	\$39,333	\$216.28	\$170.27	\$24.03	\$18.92
10+ “Units”	1,420	22,449	\$457,147	\$361,558	\$321.93	\$254.62	\$20.36	\$16.11
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>857,054</b>	<b>1,430,893</b>	<b>\$38,080,714</b>	<b>\$30,316,937</b>	<b>\$44.43</b>	<b>\$35.37</b>	<b>\$26.61</b>	<b>\$21.19</b>
<b>Line = 1 “Unit”</b>	<b>480,514</b>	<b>480,514</b>	<b>\$12,020,571</b>	<b>\$9,580,197</b>	<b>\$25.02</b>	<b>\$19.94</b>	<b>\$25.02</b>	<b>\$19.94</b>
<b>Line &gt; 3 “Units”</b>	<b>50,723</b>	<b>235,875</b>	<b>\$6,468,128</b>	<b>\$5,138,282</b>	<b>\$127.52</b>	<b>\$101.30</b>	<b>\$27.42</b>	<b>\$21.78</b>
<b>Impact Estimate</b>	<b>5.92%</b>	<b>83,706</b>	<b>\$2,661,458</b>	<b>\$2,104,429</b>				
<b>Line &gt; 4 “Units”</b>	<b>12,434</b>	<b>82,719</b>	<b>\$2,304,487</b>	<b>\$1,833,786</b>	<b>\$185.34</b>	<b>\$147.48</b>	<b>\$27.86</b>	<b>\$22.17</b>
<b>Impact Estimate</b>	<b>1.45%</b>	<b>32,983</b>	<b>\$1,060,288</b>	<b>\$842,179</b>				

## Appendix I-Table 4: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – Speech-Language Pathology

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	615,405	1,094,437	\$27,509,541	\$21,855,887	\$44.70	\$35.51	\$25.14	\$19.97
1 “Unit”	370,414	370,414	\$10,678,473	\$8,492,994	\$28.83	\$22.93	\$28.83	\$22.93
2 “Units”	168,041	336,082	\$9,338,633	\$7,443,079	\$55.57	\$44.29	\$27.79	\$22.15
3 “Units”	43,786	131,358	\$3,561,996	\$2,816,684	\$81.35	\$64.33	\$27.12	\$21.44
4 “Units”	28,788	115,152	\$3,040,062	\$2,410,993	\$105.60	\$83.75	\$26.40	\$20.94
5 “Units”	2,183	10,915	\$295,842	\$235,717	\$135.52	\$107.98	\$27.10	\$21.60
6 “Units”	852	5,112	\$141,314	\$111,957	\$165.86	\$131.41	\$27.64	\$21.90
7 “Units”	142	994	\$26,705	\$21,304	\$188.07	\$150.03	\$26.87	\$21.43
8 “Units”	486	3,888	\$123,919	\$81,345	\$254.98	\$167.38	\$31.87	\$20.92
9 “Units”	58	522	\$13,755	\$10,995	\$237.15	\$189.57	\$26.35	\$21.06
10+ “Units”	649	120,000	\$288,552	\$230,643	\$444.61	\$355.38	\$2.40	\$1.92
0 “Units”	6	0	\$291	\$177	\$48.42	\$29.45	N/A	N/A
<b>Total (all lines)</b>	<b>615,405</b>	<b>1,094,437</b>	<b>\$27,509,541</b>	<b>\$21,855,887</b>	<b>\$44.70</b>	<b>\$35.51</b>	<b>\$25.14</b>	<b>\$19.97</b>
<b>Line = 1 “Unit”</b>	<b>370,414</b>	<b>370,414</b>	<b>\$10,678,473</b>	<b>\$8,492,994</b>	<b>\$28.83</b>	<b>\$22.93</b>	<b>\$28.83</b>	<b>\$22.93</b>
<b>Line &gt; 3 “Units”</b>	<b>33,158</b>	<b>256,583</b>	<b>\$3,930,149</b>	<b>\$3,102,954</b>	<b>\$118.53</b>	<b>\$93.58</b>	<b>\$15.32</b>	<b>\$12.09</b>
<b>Impact Estimate</b>	<b>5.39%</b>	<b>157,109</b>	<b>\$1,062,465</b>	<b>\$822,176</b>				
<b>Line &gt; 4 “Units”</b>	<b>4,370</b>	<b>141,431</b>	<b>\$890,087</b>	<b>\$691,961</b>	<b>\$203.68</b>	<b>\$158.34</b>	<b>\$6.29</b>	<b>\$4.89</b>
<b>Impact Estimate</b>	<b>0.71%</b>	<b>123,951</b>	<b>\$386,165</b>	<b>\$291,173</b>				

## Appendix I-Table 4.1: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – SLP 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	615,375	1,094,379	\$27,507,674	\$21,854,424	\$44.70	\$35.51	\$25.14	\$19.97
1 “Unit”	370,397	370,397	\$10,677,514	\$8,492,227	\$28.83	\$22.93	\$28.83	\$22.93
2 “Units”	168,040	336,080	\$9,338,584	\$7,443,040	\$55.57	\$44.29	\$27.79	\$22.15
3 “Units”	43,777	131,331	\$3,561,398	\$2,816,236	\$81.35	\$64.33	\$27.12	\$21.44
4 “Units”	28,785	115,140	\$3,039,800	\$2,410,784	\$105.60	\$83.75	\$26.40	\$20.94
5 “Units”	2,183	10,915	\$295,842	\$235,717	\$135.52	\$107.98	\$27.10	\$21.60
6 “Units”	852	5,112	\$141,314	\$111,957	\$165.86	\$131.41	\$27.64	\$21.90
7 “Units”	142	994	\$26,705	\$21,304	\$188.07	\$150.03	\$26.87	\$21.43
8 “Units”	486	3,888	\$123,919	\$81,345	\$254.98	\$167.38	\$31.87	\$20.92
9 “Units”	58	522	\$13,755	\$10,995	\$237.15	\$189.57	\$26.35	\$21.06
10+ “Units”	649	120,000	\$288,552	\$230,643	\$444.61	\$355.38	\$2.40	\$1.92
0 “Units”	6	0	\$291	\$177	\$48.42	\$29.45	N/A	N/A
<b>Total (all lines)</b>	<b>615,375</b>	<b>1,094,379</b>	<b>\$27,507,674</b>	<b>\$21,854,424</b>	<b>\$44.70</b>	<b>\$35.51</b>	<b>\$25.14</b>	<b>\$19.97</b>
<b>Line = 1 “Unit”</b>	<b>370,397</b>	<b>370,397</b>	<b>\$10,677,514</b>	<b>\$8,492,227</b>	<b>\$28.83</b>	<b>\$22.93</b>	<b>\$28.83</b>	<b>\$22.93</b>
<b>Line &gt; 3 “Units”</b>	<b>33,155</b>	<b>256,571</b>	<b>\$3,929,887</b>	<b>\$3,102,744</b>	<b>\$118.53</b>	<b>\$93.58</b>	<b>\$15.32</b>	<b>\$12.09</b>
<b>Impact Estimate</b>	<b>5.39%</b>	<b>157,106</b>	<b>\$1,062,588</b>	<b>\$822,274</b>				
<b>Line &gt; 4 “Units”</b>	<b>4,370</b>	<b>141,431</b>	<b>\$890,087</b>	<b>\$691,961</b>	<b>\$203.68</b>	<b>\$158.34</b>	<b>\$6.29</b>	<b>\$4.89</b>
<b>Impact Estimate</b>	<b>0.71%</b>	<b>123,951</b>	<b>\$386,187</b>	<b>\$291,191</b>				



## Appendix I-Table 4.2: Impact Analysis: Application of Volume Control Edits on “Time-based” Therapy HCPCS by Therapy Type – SLP 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	30	58	\$1,866	\$1,464	\$62.21	\$48.78	\$32.18	\$25.23
1 “Unit”	17	17	\$959	\$767	\$56.39	\$45.11	\$56.39	\$45.11
2 “Units”	1	2	\$48	\$39	\$48.32	\$38.66	\$24.16	\$19.33
3 “Units”	9	27	\$598	\$449	\$66.43	\$49.85	\$22.14	\$16.62
4 “Units”	3	12	\$262	\$209	\$87.21	\$69.77	\$21.80	\$17.44
5 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
6 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
7 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
8 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
9 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
10+ “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
0 “Units”	0	0	\$0	\$0	N/A	N/A	N/A	N/A
<b>Total (all lines)</b>	<b>30</b>	<b>58</b>	<b>\$1,866</b>	<b>\$1,464</b>	<b>\$62.21</b>	<b>\$48.78</b>	<b>\$32.18</b>	<b>\$25.23</b>
<b>Line = 1 “Unit”</b>	<b>17</b>	<b>17</b>	<b>\$959</b>	<b>\$767</b>	<b>\$56.39</b>	<b>\$45.11</b>	<b>\$56.39</b>	<b>\$45.11</b>
<b>Line &gt; 3 “Units”</b>	<b>3</b>	<b>12</b>	<b>\$262</b>	<b>\$209</b>	<b>\$87.21</b>	<b>\$69.77</b>	<b>\$21.80</b>	<b>\$17.44</b>
<b>Impact Estimate</b>	<b>10.00%</b>	<b>3</b>	<b>-\$246</b>	<b>-\$197</b>				
<b>Line &gt; 4 “Units”</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Impact Estimate</b>	<b>0.00%</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>				