

# HOSPICE ITEM SET BURDEN CALCULATION WORKSHEET

## PART 1. TIME BURDEN

### Estimated number of hospice admissions and Hospice Item Set record submissions

Total number of Medicare-participating hospices = 3,742

Total number of admissions to all hospices per year = 1,089,719<sup>1</sup>

### Estimated number of admissions to each hospice per year

1,089,719 admissions to all hospices / 3,742 hospices = 291

### Estimated number of admissions to each hospice per month

1,089,719 admissions to all hospices / 3,742 hospices / 12 months per year = 24

### Estimated number of Hospice Item Set records submitted by all hospices per year

1,089,719 admissions to all hospices per year x 2 Hospice Item Set records (1 Admission Record and 1 Discharge Record) per patient = 2,179,438

### Estimated number of Hospice Item Set records submitted by each hospice per year

2,179,438 Hospice Item Set records per all hospices / 3,742 hospices = 582

### Estimated average number of Hospice Item Set records submitted by each hospice per month

2,179,438 Hospice Item Set records per all hospices / 3,742 hospices / 12 months per year = 49

### Estimated average number of Hospice Item Set records submitted by all hospices per month

2,179,438 Hospice Item Set records per all hospices per year / 12 months per year = 181,620

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<sup>1</sup>The admissions number, 1,089,719, was calculated using 2011 Medicare hospice claims data. MedPAC listed the number of beneficiaries in hospice as 1,159,000 in their 2012 "Data Book." However, MedPAC's numbers are not restricted to admissions and are based on 2010 claims data.

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## PART 2. Cost/Wage Calculation

### Time required to complete each Hospice Item Set record

14 minutes nursing/clinical staff time to abstract data for Admission Record – paid @ \$33.23/hr.<sup>2</sup>  
5 minutes nursing/clinical staff time to abstract data for Discharge Record – paid @ \$33.23/hr.  
5 minutes administrative/clerkal staff time to upload Assessment Record data – paid @ \$15.59/hr.<sup>3</sup>  
5 minutes administrative/clerkal staff time to upload Discharge Record data – paid @ \$15.59/hr.

### Nursing Time:

19 minutes x 291 Hospice Item Sets per each hospice per year = 5,529 minutes per each hospice per year  
5,529 minutes per each hospice per year / 60 minutes per hour = 92.15 hours per each hospice per year

92.15 hours per year x \$33.23 per hour = \$3,062.14 nursing wages per each hospice per year  
\$3,062.14 x 3,742 hospice providers = \$11,458,528 per all hospices per year

### Administrative Assistant Time:

10 minutes x 291 Hospice Item Sets per each hospice per year = 2,910 minutes per hospice per year  
2,910 minutes per provider per year / 60 minutes per hour = 48.50 hours per each hospice per year

48.50 hours per year x \$15.59 per hour = \$756.12 administrative/clerkal wages per each hospice per year  
\$756.12 x 3,742 hospice providers = \$2,829,401 per all hospices per year

### Total annualized cost to each hospice provider:

\$3,062.14	Nursing wages per each hospice per year
\$756.12	Administrative assistant wages per each hospice per year
<b>\$3,818.26</b>	<b>Total</b>

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### Total annualized cost to all hospice providers:

\$11,458,528	Nursing wages per all hospice providers per year
\$2,829,401	Administrative assistant wages per all hospice providers per year
<b>\$14,287,929</b>	<b>Total</b>

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<sup>2</sup> The mean hourly wage of \$33.23 per hour for a Registered Nurse was obtained from the U.S. Bureau of Labor Statistics. See <http://www.bls.gov/oes/current/oes291111.htm>

<sup>3</sup> The mean hourly wage of \$15.59 per hour for a Medical Secretary was obtained from the U.S. Bureau of Labor Statistics. See <http://www.bls.gov/oes/current/oes436013.htm>

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### PART 3. Additional Calculations:

**Average yearly cost to each individual hospice provider:**

**\$14,287,929** – cost for all hospices per year / **3,742** hospices = **\$3,818.26**

**Average monthly cost to each individual hospice provider:**

**\$14,287,929** – cost for all Hospices per year / **3,742** hospices / **12** months per year = **\$318.19**

**Cost to provider per each individual hospice patient:**

**\$14,287,929** – cost for all hospices per year / **1,089,719** Hospice Item Sets per year = **\$13.11**

**HOSPICE ITEM SET BURDEN CALCULATION WORKSHEET**

**Appendix 1: Hourly Time and Wage Burden Calculation Detail**

**Hospice Quality Reporting Program  
Time and Wage Burden Itemization**

<b>Record Type</b>	<b>Number of Questions</b>	<b>Time Required To Complete Questions</b>	<b>Staff Wages for Questions</b>
<b>Admission Record</b>	<b>45</b>	<b><u>14 min - Nursing/Clinical time</u></b> 0.3 min. per item x 45 items	<b>14 min. x \$33.23/hr. = \$7.75</b>
		<b><u>5 min - Admin/Clerical time</u></b> <b><u>(to upload data)</u></b>	<b>5 min. x \$15.59/hr. = \$1.30</b>
<b>Discharge Record</b>	<b>15</b>	<b><u>5 min- Nursing/Clinical time</u></b> (0.3 min. per item x 15 items)	<b>5 min. x \$33.23/hr. = \$2.77</b>
		<b><u>5 min - Admin/Clerical time</u></b> <b><u>(to upload data)</u></b>	<b>5 min. x \$15.59/hr. = \$1.30</b>
<b>Totals</b>	<b>60</b>	<b><u>29 minutes</u></b>	<b>Total cost per patient \$13.12</b>

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### Appendix 2: Alternative Method of Calculating Burden for the Hospice Data Item Set

#### Burden Estimate Based on Hospice Size

##### Estimated annual time burden per each hospice based on hospice size

- 100 annual admissions x 29 minutes per Hospice Item Set = 2900 minutes / 60 minutes per hour = 48 hours per each hospice with 100 annual admissions
- 500 annual admissions x 29 minutes per Hospice Item Set = 14,500 minutes / 60 minutes per hour = 242 hours per each hospice with 500 annual admissions
- 2,500 annual admissions x 29 minutes per Hospice Item Set = 72,500 minutes / 60 minutes per hour = 1,208 hours per each hospice with 2,500 annual admissions

##### Estimated average annual cost to each hospice provider for reporting quality data based on hospice size

- 100 annual admissions x \$6.56 per each Hospice Item Set record submission x 2 record submissions = \$1,312 per each hospice with 100 annual admissions
- 500 annual admissions x \$6.56 per each Hospice Item Set submission x 2 record submissions = \$6,560 per each hospice with 500 annual admissions
- 2,500 annual admissions x \$6.56 per each Hospice Item Set submission x 2 record submissions = \$32,800 per each hospice with 2,500 annual admissions

## HOSPICE ITEM SET BURDEN CALCULATION WORKSHEET

### Appendix 3: Burden Information Obtained From Limited Pilot Testing In Various Sizes and Types of Hospices

#### Itemized Time and Wage/Cost Burden Estimate for the Hospice Item Set Records:

- The Hospice Item Set consists of 2 different types of records.
- A hospice is required to complete and submit an Admission Record within 14 days after the patient is admitted.
- A hospice must also complete and submit a Discharge Record within 7 days after the patient is discharged.

#### Hospice Item Set Pilot Time Estimates - Admission Record

Hospice	TE01	TE02	TE03	TE04	TE05	TE06	TE07	TE08	Total
A	2.5	2.7	4.2	3.0	3.0	1.4	1.0	0.6	18.3
B	4.3	3.8	3.4	2.9	2.9	2.3	1.2	1.7	22.5
C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	7.6
D	1.4	1.2	1.8	1.4	1.2	1.3	0.6	0.4	9.3
E	2.8	2.2	2.9	2.5	3.8	1.4	1.7	0.3	17.7
F	5.2	3.9	3.5	2.3	1.9	1.9	1.4	1.2	21.5
G	1.8	2.0	3.1	1.8	1.7	2.2	1.0	0.8	14.4
H	1.1	0.8	1.2	1.2	1.1	1.0	0.8	0.4	7.6
J	1.3	1.1	1.9	1.1	1.7	1.0	1.0	0.3	9.3
Total	2.3	2.0	2.5	1.9	2.1	1.5	1.1	0.7	14.1

Top 5% removed as outliers.  
Blank TE08's recoded as 0.

#### Admission Record

##### (Alternate Method of Calculation)

Number of Questions: 45 @ 0.3 minutes each = 13.5 minutes

#### Discharge Record

Number of Questions: 15 @ 0.3 minutes each = 4.5 minutes

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Appendix 4: Change in Burden Table

Change In Burden From Prior 2012 PRA Package Burden Estimate  
& the Current Hospice Item Set PRA Package Burden Estimate

<b>Type of Calculation</b>	<b>Prior 2012 Hospice PRA Package</b>	<b>Current Hospice Item Set PRA Package</b>	<b>Change in Burden</b>
<b>Per Each Hospice</b>	<b>\$3,038</b>	<b>\$3,818</b>	<b>+ \$780</b>
<b>Per All Hospices</b>	<b>\$11,034,016</b>	<b>\$14,287,929</b>	<b>+ \$3,253,913</b>