

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG      Asthma - All (Episode Included: 236,976 )		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	6.4	6.4	2.32	14.8	\$	6,421.34	\$	41.00
	Other Inpatient	0.0		3.33	0.0	\$	6,952.50	\$	0.09
	<b>Total Inpatient</b>	<b>6.4</b>		<b>2.32</b>	<b>14.8</b>	<b>\$</b>	<b>6,422.39</b>	<b>\$</b>	<b>41.09</b>
Outpatient	Avoidable_ER	2.1	2.1			\$	501.36	\$	1.08
	Advanced Imaging	11.0	11.0			\$	969.82	\$	10.64
	ER - Urgent	71.1				\$	519.40	\$	36.95
	OP Surgery	1.1				\$	1,632.21	\$	1.76
	Radiology - General	45.6				\$	299.12	\$	13.65
	Pathology_FOP	29.2				\$	309.60	\$	9.04
	Therapies	0.5				\$	250.94	\$	0.13
	Other Outpatient	129.8				\$	637.41	\$	82.74
	<b>Total Outpatient</b>							<b>\$</b>	<b>155.99</b>
Professional/Other	Office Visits	1,107.2	1,107.2			\$	91.46	\$	101.27
	ER Visits	71.5				\$	224.09	\$	16.02
	Consults	47.3				\$	219.20	\$	10.37
	Inpatient Surgery	0.9				\$	343.95	\$	0.32
	Outpatient Surgery	3.8				\$	210.00	\$	0.79
	Inpatient Visits	20.4				\$	174.46	\$	3.56
	Preventive Services	104.0				\$	24.39	\$	2.54
	Pathology_PROF	200.6				\$	20.03	\$	4.02
	Radiology	178.4				\$	40.39	\$	7.20
	Physical Therapy	2.1				\$	88.15	\$	0.19
	Cardiovascular	76.3				\$	59.94	\$	4.57
	Durable Medical Equip	300.3				\$	65.04	\$	19.53
	Home Health	7.0				\$	197.69	\$	1.39
	Other Pro/Other	1,044.8				\$	52.02	\$	54.35
	<b>Total Pro/Other</b>							<b>\$</b>	<b>226.14</b>
Pharmacy	Branded Drugs	3,232.3	76.5%	34.91	112,843.0	\$	145.11	\$	469.05
	Non-Branded Drugs	990.6		15.12	14,974.8	\$	32.57	\$	32.27
	<b>Total Pharmacy</b>	<b>4,222.9</b>		<b>30.27</b>	<b>127,817.7</b>	<b>\$</b>	<b>118.71</b>	<b>\$</b>	<b>501.32</b>
<b>Total</b>								<b>\$</b>	<b>924.53</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

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ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Asthma - No Complication and No Surgery (Episode Included: 190,065 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	1.1	6.2	2.50	2.8	\$ 6,886.34	\$ 2,754.53	\$ 7.61	
	Other Inpatient	-		-	-	\$ -	\$ -	\$ -	
	<b>Total Inpatient</b>	<b>1.1</b>		<b>2.50</b>	<b>2.8</b>	<b>\$ 6,886.34</b>	<b>\$ 2,754.53</b>	<b>\$ 7.61</b>	<b>\$ 37.57</b>
Outpatient	Avoidable_ER	2.1	2.1			\$ 499.74		\$ 1.06	
	Advanced Imaging	10.5	10.7			\$ 967.35		\$ 10.20	
	ER - Urgent	34.4				\$ 524.11		\$ 18.04	
	OP Surgery	1.0				\$ 1,633.72		\$ 1.68	
	Radiology - General	38.2				\$ 299.44		\$ 11.43	
	Pathology_FOP	26.7				\$ 309.81		\$ 8.27	
	Therapies	0.5				\$ 256.33		\$ 0.12	
	Other Outpatient	114.8				\$ 628.11		\$ 72.11	
	<b>Total Outpatient</b>							<b>\$ 122.91</b>	<b>\$ 151.75</b>
Professional/Other	Office Visits	951.9	1,103.5			\$ 90.58		\$ 86.22	
	ER Visits	34.2				\$ 227.85		\$ 7.79	
	Consults	42.6				\$ 218.33		\$ 9.30	
	Inpatient Surgery	0.9				\$ 362.53		\$ 0.34	
	Outpatient Surgery	3.4				\$ 214.93		\$ 0.73	
	Inpatient Visits	5.1				\$ 170.68		\$ 0.87	
	Preventive Services	96.3				\$ 25.07		\$ 2.41	
	Pathology_PROF	176.2				\$ 20.00		\$ 3.52	
	Radiology	140.1				\$ 42.45		\$ 5.95	
	Physical Therapy	1.8				\$ 87.33		\$ 0.16	
	Cardiovascular	71.2				\$ 61.31		\$ 4.37	
	Durable Medical Equip	267.0				\$ 69.48		\$ 18.55	
	Home Health	5.9				\$ 192.64		\$ 1.14	
	Other Pro/Other	891.7				\$ 52.84		\$ 47.12	
	<b>Total Pro/Other</b>							<b>\$ 188.46</b>	<b>\$ 222.28</b>
Pharmacy	Branded Drugs	3,118.5	79.0%	35.53	110,785.8	\$ 146.59		\$ 457.14	
	Non-Branded Drugs	829.4		16.06	13,318.9	\$ 32.69		\$ 27.11	
	<b>Total Pharmacy</b>	<b>3,947.9</b>		<b>31.44</b>	<b>124,104.7</b>	<b>\$ 122.66</b>		<b>\$ 484.25</b>	<b>\$ 501.14</b>
<b>Total</b>								<b>\$ 803.23</b>	<b>\$ 912.74</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG Asthma - with Complication Only (Episode Included: 46,911 )

Service Type		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	27.8	7.2	2.29	63.6	\$ 6,346.39	\$ 2,771.23	\$ 176.28	
	Other Inpatient	0.1		3.33	0.2	\$ 6,952.50	\$ 2,085.75	\$ 0.44	
	<b>Total Inpatient</b>	<b>27.8</b>		<b>2.29</b>	<b>63.8</b>	<b>\$ 6,347.79</b>	<b>\$ 2,768.94</b>	<b>\$ 176.72</b>	<b>\$ 55.33</b>
Outpatient	Avoidable_ER	2.2	2.2			\$ 507.59		\$ 1.14	
	Advanced Imaging	12.7	12.1			\$ 978.15		\$ 12.43	
	ER - Urgent	219.9				\$ 516.42		\$ 113.56	
	OP Surgery	1.3				\$ 1,627.22		\$ 2.05	
	Radiology - General	75.9				\$ 298.45		\$ 22.66	
	Pathology_FOP	39.4				\$ 309.02		\$ 12.16	
	Therapies	0.8				\$ 238.75		\$ 0.19	
	Other Outpatient	190.6				\$ 660.10		\$ 125.81	
	<b>Total Outpatient</b>							<b>\$ 289.99</b>	<b>\$ 168.75</b>
Professional/Other	Office Visits	1,736.4	1,122.2			\$ 93.44		\$ 162.25	
	ER Visits	222.7				\$ 221.75		\$ 49.38	
	Consults	66.5				\$ 221.47		\$ 14.72	
	Inpatient Surgery	1.0				\$ 270.42		\$ 0.26	
	Outpatient Surgery	5.3				\$ 197.13		\$ 1.04	
	Inpatient Visits	82.4				\$ 175.41		\$ 14.45	
	Preventive Services	135.5				\$ 22.42		\$ 3.04	
	Pathology_PROF	299.3				\$ 20.09		\$ 6.01	
	Radiology	333.5				\$ 36.87		\$ 12.30	
	Physical Therapy	3.4				\$ 89.94		\$ 0.30	
	Cardiovascular	96.7				\$ 55.83		\$ 5.40	
	Durable Medical Equip	435.5				\$ 54.02		\$ 23.53	
	Home Health	11.7				\$ 208.00		\$ 2.43	
	Other Pro/Other	1,665.3				\$ 50.24		\$ 83.66	
	<b>Total Pro/Other</b>							<b>\$ 378.78</b>	<b>\$ 246.17</b>
Pharmacy	Branded Drugs	3,693.7	69.2%	32.81	121,177.9	\$ 140.05		\$ 517.32	
	Non-Branded Drugs	1,643.8		13.19	21,683.6	\$ 32.34		\$ 53.16	
	<b>Total Pharmacy</b>	<b>5,337.5</b>		<b>26.77</b>	<b>142,861.5</b>	<b>\$ 106.88</b>		<b>\$ 570.47</b>	<b>\$ 502.06</b>
<b>Total</b>								<b>\$ 1,415.97</b>	<b>\$ 972.30</b>

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Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Cerebral Vascular Disease - All (Episode Included: 20,129)				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	168.0	168.0	4.43	743.6	\$	17,288.29	\$	3,905.37
	Other Inpatient	4.3		25.59	110.6	\$	16,634.51	\$	650.14
	<b>Total Inpatient</b>	<b>172.3</b>		<b>4.96</b>	<b>854.1</b>	\$	<b>17,271.89</b>	\$	<b>3,483.91</b>
Outpatient	Avoidable_ER	12.2	12.2			\$	556.15	\$	6.80
	Advanced Imaging	345.8	345.8			\$	1,306.42	\$	451.78
	ER - Urgent	112.0				\$	609.64	\$	68.30
	OP Surgery	26.2				\$	2,580.33	\$	67.56
	Radiology - General	37.3				\$	1,573.77	\$	58.64
	Pathology_FOP	206.4				\$	258.26	\$	53.31
	Therapies	659.4				\$	234.04	\$	154.34
	Other Outpatient	653.2				\$	821.72	\$	536.78
	<b>Total Outpatient</b>							\$	<b>1,397.50</b>
Professional/Other	Office Visits	1,159.3	1,159.3			\$	94.03	\$	109.01
	ER Visits	279.3				\$	283.52	\$	79.19
	Consults	349.8				\$	224.38	\$	78.49
	Inpatient Surgery	203.1				\$	992.05	\$	201.52
	Outpatient Surgery	121.1				\$	536.49	\$	64.95
	Inpatient Visits	893.4				\$	158.75	\$	141.84
	Preventive Services	202.8				\$	13.27	\$	2.69
	Pathology_PROF	1,688.2				\$	13.68	\$	23.10
	Radiology	1,177.1				\$	208.80	\$	245.77
	Physical Therapy	329.2				\$	87.68	\$	28.87
	Cardiovascular	463.3				\$	108.38	\$	50.21
	Durable Medical Equip	447.7				\$	112.26	\$	50.26
	Home Health	192.9				\$	231.95	\$	44.74
	Other Pro/Other	925.6				\$	318.71	\$	295.01
	<b>Total Pro/Other</b>							\$	<b>1,415.66</b>
Pharmacy	Branded Drugs	784.2	51.3%	42.99	33,713.5	\$	205.85	\$	161.42
	Non-Branded Drugs	744.9		40.72	30,336.0	\$	38.45	\$	28.64
	<b>Total Pharmacy</b>	<b>1,529.1</b>		<b>41.89</b>	<b>64,049.5</b>	\$	<b>124.30</b>	\$	<b>190.07</b>
<b>Total</b>								\$	<b>5,978.97</b>

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Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Cerebral Vascular Disease - No Complication and No Surgery (Episode Included: 17,260 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	119.2	154.8	3.33	397.3	\$	14,170.45	\$	1,689.62
	Other Inpatient	2.1		23.00	48.0	\$	17,891.59	\$	37.32
	<b>Total Inpatient</b>	<b>121.3</b>		<b>3.67</b>	<b>445.2</b>	\$	<b>14,234.42</b>	\$	<b>1,726.93</b>
Outpatient	Avoidable_ER	10.9	11.9			\$	560.96	\$	6.11
	Advanced Imaging	331.2	338.3			\$	1,272.00	\$	421.32
	ER - Urgent	109.4				\$	608.62	\$	66.57
	OP Surgery	15.9				\$	2,522.95	\$	40.20
	Radiology - General	27.9				\$	1,354.10	\$	37.74
	Pathology_FOP	186.3				\$	262.03	\$	48.82
	Therapies	349.6				\$	236.56	\$	82.70
	Other Outpatient	571.3				\$	835.72	\$	477.46
	<b>Total Outpatient</b>							\$	<b>1,180.93</b>
Professional/Other	Office Visits	1,068.9	1,107.5			\$	93.97	\$	100.44
	ER Visits	269.7				\$	281.84	\$	76.01
	Consults	294.4				\$	227.03	\$	66.84
	Inpatient Surgery	31.7				\$	525.78	\$	16.66
	Outpatient Surgery	67.2				\$	451.05	\$	30.31
	Inpatient Visits	538.1				\$	160.61	\$	86.42
	Preventive Services	193.5				\$	13.35	\$	2.58
	Pathology_PROF	1,378.0				\$	13.37	\$	18.43
	Radiology	917.3				\$	223.10	\$	204.64
	Physical Therapy	161.2				\$	85.98	\$	13.86
	Cardiovascular	440.7				\$	111.71	\$	49.23
	Durable Medical Equip	365.8				\$	111.38	\$	40.74
	Home Health	118.5				\$	260.57	\$	30.87
	Other Pro/Other	851.2				\$	269.44	\$	229.35
	<b>Total Pro/Other</b>							\$	<b>966.41</b>
Pharmacy	Branded Drugs	803.7	52.0%	43.39	34,874.1	\$	205.34	\$	165.02
	Non-Branded Drugs	741.3		41.32	30,632.2	\$	33.22	\$	24.63
	<b>Total Pharmacy</b>	<b>1,545.0</b>		<b>42.40</b>	<b>65,506.3</b>	\$	<b>122.75</b>	\$	<b>189.65</b>
<b>Total</b>								\$	<b>4,063.92</b>
								\$	<b>5,219.30</b>

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Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Cerebral Vascular Disease - with Complication Only (Episode Included: 2,055 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	302.2	266.0	8.42	2,545.5	\$	21,746.79	\$	6,571.66
	Other Inpatient	20.4		26.52	542.1	\$	13,885.43	\$	283.79
	<b>Total Inpatient</b>	<b>322.6</b>		<b>9.57</b>	<b>3,087.6</b>	<b>\$</b>	<b>21,248.78</b>	<b>\$</b>	<b>6,855.45</b>
Outpatient	Avoidable_ER	18.0	14.2			\$	531.84	\$	9.58
	Advanced Imaging	360.6	401.0			\$	1,359.62	\$	490.26
	ER - Urgent	131.9				\$	620.84	\$	81.87
	OP Surgery	38.9				\$	2,462.15	\$	95.85
	Radiology - General	70.6				\$	966.54	\$	68.20
	Pathology_FOP	261.8				\$	234.01	\$	61.26
	Therapies	2,948.4				\$	230.48	\$	679.56
	Other Outpatient	1,006.8				\$	778.44	\$	783.74
	<b>Total Outpatient</b>							<b>\$</b>	<b>2,270.32</b>
Professional/Other	Office Visits	1,680.8	1,541.5			\$	93.59	\$	157.31
	ER Visits	347.4				\$	293.08	\$	101.83
	Consults	558.6				\$	220.34	\$	123.09
	Inpatient Surgery	314.4				\$	556.03	\$	174.79
	Outpatient Surgery	202.9				\$	409.79	\$	83.15
	Inpatient Visits	2,850.1				\$	150.77	\$	429.70
	Preventive Services	243.3				\$	13.82	\$	3.36
	Pathology_PROF	2,585.4				\$	12.49	\$	32.30
	Radiology	2,032.6				\$	193.11	\$	392.51
	Physical Therapy	1,790.8				\$	89.12	\$	159.60
	Cardiovascular	537.2				\$	103.64	\$	55.68
	Durable Medical Equip	944.5				\$	111.83	\$	105.62
	Home Health	741.6				\$	198.00	\$	146.84
	Other Pro/Other	1,094.9				\$	631.12	\$	691.00
	<b>Total Pro/Other</b>							<b>\$</b>	<b>2,656.79</b>
Pharmacy	Branded Drugs	563.0	42.0%	40.77	22,953.8	\$	219.85	\$	123.78
	Non-Branded Drugs	779.1		38.57	30,046.7	\$	49.03	\$	38.20
	<b>Total Pharmacy</b>	<b>1,342.1</b>		<b>39.49</b>	<b>53,000.5</b>	<b>\$</b>	<b>120.69</b>	<b>\$</b>	<b>161.98</b>
<b>Total</b>								<b>\$</b>	<b>11,944.54</b>
								<b>\$</b>	<b>11,536.36</b>

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Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Chronic Obstructive Pulmonary Disease - All (Episode Included: 32,878 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	37.7	37.7	3.49	131.5	\$ 10,884.15	\$ 3,120.54	\$ 410.50	
	Other Inpatient	0.4		6.08	2.2	\$ 13,282.87	\$ 2,183.49	\$ 4.85	
	<b>Total Inpatient</b>	<b>38.1</b>		<b>3.51</b>	<b>133.8</b>	<b>\$ 10,907.14</b>	<b>\$ 3,104.99</b>	<b>\$ 415.35</b>	<b>\$ 415.35</b>
Outpatient	Avoidable_ER	11.8	11.8			\$ 481.76		\$ 5.67	
	Advanced Imaging	70.3	70.3			\$ 976.63		\$ 68.68	
	ER - Urgent	70.3				\$ 560.03		\$ 39.36	
	OP Surgery	7.6				\$ 1,854.11		\$ 14.04	
	Radiology - General	122.5				\$ 351.34		\$ 43.03	
	Pathology_FOP	91.5				\$ 320.88		\$ 29.37	
	Therapies	4.4				\$ 201.79		\$ 0.89	
	Other Outpatient	316.3				\$ 727.08		\$ 229.99	
	<b>Total Outpatient</b>							<b>\$ 431.04</b>	<b>\$ 425.82</b>
Professional/Other	Office Visits	1,426.1	1,426.1			\$ 91.60		\$ 130.63	
	ER Visits	106.8				\$ 259.41		\$ 27.70	
	Consults	84.7				\$ 221.02		\$ 18.72	
	Inpatient Surgery	11.5				\$ 672.19		\$ 7.73	
	Outpatient Surgery	22.3				\$ 274.83		\$ 6.12	
	Inpatient Visits	166.9				\$ 155.22		\$ 25.91	
	Preventive Services	171.0				\$ 16.14		\$ 2.76	
	Pathology_PROF	659.3				\$ 18.14		\$ 11.96	
	Radiology	561.3				\$ 57.19		\$ 32.10	
	Physical Therapy	5.6				\$ 84.12		\$ 0.47	
	Cardiovascular	236.0				\$ 55.67		\$ 13.14	
	Durable Medical Equip	1,032.0				\$ 99.24		\$ 102.42	
	Home Health	51.3				\$ 197.28		\$ 10.12	
	Other Pro/Other	1,296.5				\$ 72.34		\$ 93.78	
	<b>Total Pro/Other</b>							<b>\$ 483.55</b>	<b>\$ 488.77</b>
Pharmacy	Branded Drugs	2,816.4	57.3%	34.84	98,119.4	\$ 177.68		\$ 500.41	
	Non-Branded Drugs	2,098.7		14.56	30,554.4	\$ 24.45		\$ 51.32	
	<b>Total Pharmacy</b>	<b>4,915.0</b>		<b>26.18</b>	<b>128,673.8</b>	<b>\$ 112.25</b>		<b>\$ 551.73</b>	<b>\$ 551.73</b>
<b>Total</b>								<b>\$ 1,881.67</b>	<b>\$ 1,881.67</b>

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Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Chronic Obstructive Pulmonary Disease - No Complication and No Surgery (Episode Included: 30,941 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	32.7	36.4	3.34	109.5	\$	10,401.44	\$	340.54
	Other Inpatient	0.2		8.43	1.9	\$	12,816.74	\$	2.90
	<b>Total Inpatient</b>	<b>33.0</b>		<b>3.38</b>	<b>111.4</b>	<b>\$</b>	<b>10,418.01</b>	<b>\$</b>	<b>343.44</b>
									<b>\$ 394.23</b>
Outpatient	Avoidable_ER	11.8	11.7			\$	478.82	\$	5.65
	Advanced Imaging	58.1	69.5			\$	975.21	\$	56.67
	ER - Urgent	65.7				\$	557.89	\$	36.67
	OP Surgery	2.0				\$	1,551.18	\$	3.16
	Radiology - General	114.3				\$	348.54	\$	39.85
	Pathology_FOP	82.8				\$	316.37	\$	26.19
	Therapies	2.7				\$	161.05	\$	0.44
	Other Outpatient	280.9				\$	723.13	\$	203.14
	<b>Total Outpatient</b>							\$	<b>371.78</b>
									<b>\$ 416.36</b>
Professional/Other	Office Visits	1,372.0	1,418.2			\$	91.18	\$	125.10
	ER Visits	99.6				\$	256.90	\$	25.60
	Consults	72.2				\$	221.09	\$	15.97
	Inpatient Surgery	2.7				\$	451.55	\$	1.20
	Outpatient Surgery	8.9				\$	171.90	\$	1.53
	Inpatient Visits	138.0				\$	154.17	\$	21.27
	Preventive Services	166.8				\$	16.21	\$	2.70
	Pathology_PROF	596.7				\$	16.44	\$	9.81
	Radiology	505.5				\$	55.99	\$	28.30
	Physical Therapy	4.8				\$	83.49	\$	0.40
	Cardiovascular	212.1				\$	55.38	\$	11.75
	Durable Medical Equip	959.3				\$	98.31	\$	94.31
	Home Health	44.3				\$	204.69	\$	9.06
	Other Pro/Other	1,214.2				\$	70.51	\$	85.62
	<b>Total Pro/Other</b>							\$	<b>432.62</b>
									<b>\$ 476.56</b>
Pharmacy	Branded Drugs	2,696.3	56.6%	34.79	93,798.1	\$	176.43	\$	475.70
	Non-Branded Drugs	2,067.3		14.24	29,443.6	\$	23.87	\$	49.34
	<b>Total Pharmacy</b>	<b>4,763.6</b>		<b>25.87</b>	<b>123,241.7</b>	<b>\$</b>	<b>110.22</b>	<b>\$</b>	<b>525.04</b>
<b>Total</b>								<b>\$</b>	<b>1,672.88</b>
									<b>\$ 1,831.59</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.



Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Chronic Obstructive Pulmonary Disease - with Complication Only (Episode Included: 1,573 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	74.4	53.2	3.68	274.0	\$ 10,691.55	\$ 2,902.35	\$ 795.24	
	Other Inpatient	1.3		3.50	4.5	\$ 17,409.46	\$ 4,974.13	\$ 22.14	
	<b>Total Inpatient</b>	<b>75.7</b>		<b>3.68</b>	<b>278.4</b>	<b>\$ 10,804.46</b>	<b>\$ 2,935.46</b>	<b>\$ 817.37</b>	<b>\$ 672.69</b>
Outpatient	Avoidable_ER	8.9	12.6			\$ 494.41		\$ 4.40	
	Advanced Imaging	215.5	80.4			\$ 993.13		\$ 214.03	
	ER - Urgent	127.8				\$ 573.55		\$ 73.29	
	OP Surgery	5.7				\$ 550.70		\$ 3.15	
	Radiology - General	206.0				\$ 379.20		\$ 78.11	
	Pathology_FOP	177.4				\$ 331.15		\$ 58.74	
	Therapies	23.5				\$ 284.32		\$ 6.69	
	Other Outpatient	731.1				\$ 723.99		\$ 529.30	
	<b>Total Outpatient</b>							<b>\$ 967.70</b>	<b>\$ 548.41</b>
Professional/Other	Office Visits	2,034.3	1,518.6			\$ 94.96		\$ 193.17	
	ER Visits	181.8				\$ 273.32		\$ 49.69	
	Consults	222.5				\$ 219.08		\$ 48.75	
	Inpatient Surgery	10.8				\$ 608.54		\$ 6.58	
	Outpatient Surgery	34.3				\$ 171.76		\$ 5.90	
	Inpatient Visits	395.4				\$ 150.71		\$ 59.59	
	Preventive Services	227.6				\$ 15.93		\$ 3.62	
	Pathology_PROF	969.5				\$ 19.09		\$ 18.51	
	Radiology	1,052.8				\$ 69.45		\$ 73.11	
	Physical Therapy	22.3				\$ 86.78		\$ 1.93	
	Cardiovascular	434.8				\$ 54.97		\$ 23.90	
	Durable Medical Equip	2,111.9				\$ 104.71		\$ 221.14	
	Home Health	168.5				\$ 169.62		\$ 28.58	
	Other Pro/Other	2,435.5				\$ 78.78		\$ 191.87	
	<b>Total Pro/Other</b>							<b>\$ 926.34</b>	<b>\$ 646.77</b>
Pharmacy	Branded Drugs	4,853.1	67.4%	35.86	174,020.3	\$ 188.77		\$ 916.14	
	Non-Branded Drugs	2,349.7		18.78	44,127.8	\$ 32.38		\$ 76.08	
	<b>Total Pharmacy</b>	<b>7,202.8</b>		<b>30.29</b>	<b>218,148.1</b>	<b>\$ 137.75</b>		<b>\$ 992.22</b>	<b>\$ 648.70</b>
<b>Total</b>								<b>\$ 3,703.64</b>	<b>\$ 2,516.57</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Congestive Heart Failure - All (Episode Included: 11,126 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	108.4	108.4	4.51	488.9	\$	17,495.04	\$	1,896.37
	Other Inpatient	3.1		17.35	53.0	\$	19,275.64	\$	58.90
	<b>Total Inpatient</b>	<b>111.5</b>		<b>4.86</b>	<b>542.0</b>	\$	<b>17,543.86</b>	\$	<b>1,955.27</b>
Outpatient	Avoidable_ER	2.0	2.0			\$	532.11	\$	1.05
	Advanced Imaging	17.2	17.2			\$	1,093.22	\$	18.77
	ER - Urgent	71.4				\$	607.52	\$	43.36
	OP Surgery	29.2				\$	4,496.99	\$	131.36
	Radiology - General	83.4				\$	548.35	\$	45.74
	Pathology_FOP	446.5				\$	268.90	\$	120.07
	Therapies	8.8				\$	201.05	\$	1.77
	Other Outpatient	721.2				\$	682.53	\$	492.23
	<b>Total Outpatient</b>							\$	<b>854.35</b>
								\$	<b>852.05</b>
Professional/Other	Office Visits	1,247.7	1,247.7			\$	92.30	\$	115.17
	ER Visits	160.5				\$	292.06	\$	46.88
	Consults	163.1				\$	225.22	\$	36.74
	Inpatient Surgery	72.1				\$	672.33	\$	48.46
	Outpatient Surgery	76.1				\$	606.29	\$	46.16
	Inpatient Visits	624.5				\$	162.84	\$	101.69
	Preventive Services	299.5				\$	13.02	\$	3.90
	Pathology_PROF	2,610.6				\$	13.06	\$	34.08
	Radiology	666.5				\$	84.89	\$	56.58
	Physical Therapy	4.5				\$	77.96	\$	0.35
	Cardiovascular	1,387.3				\$	105.56	\$	146.44
	Durable Medical Equip	1,045.1				\$	109.93	\$	114.89
	Home Health	113.7				\$	296.63	\$	33.73
	Other Pro/Other	368.3				\$	230.90	\$	85.05
	<b>Total Pro/Other</b>							\$	<b>870.12</b>
								\$	<b>872.42</b>
Pharmacy	Branded Drugs	782.8	12.8%	45.00	35,224.0	\$	132.82	\$	103.97
	Non-Branded Drugs	5,342.8		41.46	221,497.6	\$	17.92	\$	95.75
	<b>Total Pharmacy</b>	<b>6,125.6</b>		<b>41.91</b>	<b>256,721.6</b>	\$	<b>32.60</b>	\$	<b>199.71</b>
<b>Total</b>								\$	<b>3,879.46</b>
								\$	<b>3,879.46</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Congestive Heart Failure - No Complication and No Surgery (Episode Included: 10,576 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	94.7	107.5	4.44	421.0	\$ 17,526.02	\$ 3,944.54	\$ 1,660.46	
	Other Inpatient	2.8		17.47	49.5	\$ 17,065.10	\$ 977.01	\$ 48.41	
	<b>Total Inpatient</b>	<b>97.6</b>		<b>4.82</b>	<b>470.5</b>	<b>\$ 17,512.62</b>	<b>\$ 3,632.04</b>	<b>\$ 1,708.87</b>	<b>\$ 1,930.44</b>
Outpatient	Avoidable_ER	2.1	2.0			\$ 532.11		\$ 1.11	
	Advanced Imaging	16.5	17.1			\$ 1,071.01		\$ 17.62	
	ER - Urgent	69.6				\$ 602.28		\$ 41.91	
	OP Surgery	28.5				\$ 4,354.39		\$ 123.93	
	Radiology - General	81.3				\$ 554.02		\$ 45.05	
	Pathology_FOP	429.0				\$ 268.99		\$ 115.39	
	Therapies	9.3				\$ 201.05		\$ 1.86	
	Other Outpatient	671.8				\$ 690.18		\$ 463.67	
	<b>Total Outpatient</b>							<b>\$ 810.54</b>	<b>\$ 845.54</b>
Professional/Other	Office Visits	1,209.8	1,244.5			\$ 91.74		\$ 110.98	
	ER Visits	150.0				\$ 292.04		\$ 43.79	
	Consults	149.6				\$ 225.54		\$ 33.74	
	Inpatient Surgery	60.3				\$ 642.72		\$ 38.77	
	Outpatient Surgery	72.2				\$ 604.26		\$ 43.65	
	Inpatient Visits	536.4				\$ 165.11		\$ 88.57	
	Preventive Services	294.4				\$ 13.11		\$ 3.86	
	Pathology_PROF	2,471.8				\$ 13.02		\$ 32.19	
	Radiology	628.5				\$ 85.90		\$ 53.99	
	Physical Therapy	4.7				\$ 77.96		\$ 0.37	
	Cardiovascular	1,308.9				\$ 105.67		\$ 138.31	
	Durable Medical Equip	1,055.9				\$ 109.56		\$ 115.68	
	Home Health	101.5				\$ 294.85		\$ 29.91	
	Other Pro/Other	342.9				\$ 212.41		\$ 72.82	
	<b>Total Pro/Other</b>							<b>\$ 806.64</b>	<b>\$ 865.47</b>
Pharmacy	Branded Drugs	786.1	13.0%	45.11	35,460.5	\$ 133.55		\$ 104.99	
	Non-Branded Drugs	5,258.7		41.58	218,662.7	\$ 18.10		\$ 95.16	
	<b>Total Pharmacy</b>	<b>6,044.8</b>		<b>42.04</b>	<b>254,123.2</b>	<b>\$ 33.11</b>		<b>\$ 200.14</b>	<b>\$ 199.54</b>
<b>Total</b>								<b>\$ 3,526.20</b>	<b>\$ 3,840.99</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG Diabetes - All (Episode Included: 233,263 )		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	6.1	6.1	2.87	17.5	\$ 7,727.69	\$ 2,696.28	\$ 47.24	
	Other Inpatient	0.1		15.47	2.0	\$ 9,108.90	\$ 588.94	\$ 1.17	
	<b>Total Inpatient</b>	<b>6.2</b>		<b>3.13</b>	<b>19.5</b>	<b>\$ 7,756.15</b>	<b>\$ 2,481.42</b>	<b>\$ 48.41</b>	<b>\$ 48.41</b>
Outpatient	Avoidable_ER	2.6	2.6			\$ 525.57		\$ 1.39	
	Advanced Imaging	16.0	16.0			\$ 1,545.89		\$ 24.77	
	ER - Urgent	31.6				\$ 544.16		\$ 17.19	
	OP Surgery	9.7				\$ 1,621.97		\$ 15.68	
	Radiology - General	20.4				\$ 462.41		\$ 9.43	
	Pathology_FOP	244.3				\$ 208.43		\$ 50.91	
	Therapies	3.7				\$ 247.53		\$ 0.92	
	Other Outpatient	354.9				\$ 318.50		\$ 113.04	
	<b>Total Outpatient</b>							<b>\$ 233.33</b>	<b>\$ 232.00</b>
Professional/Other	Office Visits	1,972.2	1,972.2			\$ 96.10		\$ 189.53	
	ER Visits	34.5				\$ 240.25		\$ 8.29	
	Consults	59.4				\$ 216.65		\$ 12.88	
	Inpatient Surgery	4.1				\$ 319.40		\$ 1.30	
	Outpatient Surgery	60.7				\$ 189.05		\$ 11.48	
	Inpatient Visits	29.1				\$ 163.07		\$ 4.74	
	Preventive Services	1,307.0				\$ 14.01		\$ 18.32	
	Pathology_PROF	4,494.2				\$ 12.82		\$ 57.60	
	Radiology	68.1				\$ 120.65		\$ 8.22	
	Physical Therapy	6.9				\$ 80.80		\$ 0.56	
	Cardiovascular	99.2				\$ 69.90		\$ 6.94	
	Durable Medical Equip	674.2				\$ 226.11		\$ 152.44	
	Home Health	13.5				\$ 299.63		\$ 4.06	
	Other Pro/Other	397.4				\$ 109.47		\$ 43.50	
	<b>Total Pro/Other</b>							<b>\$ 519.86</b>	<b>\$ 521.19</b>
Pharmacy	Branded Drugs	5,935.2	53.2%	44.57	264,501.9	\$ 208.52		\$ 1,237.58	
	Non-Branded Drugs	5,226.7		44.22	231,148.7	\$ 22.84		\$ 119.38	
	<b>Total Pharmacy</b>	<b>11,161.9</b>		<b>44.41</b>	<b>495,650.6</b>	<b>\$ 121.57</b>		<b>\$ 1,356.96</b>	<b>\$ 1,356.96</b>
<b>Total</b>								<b>\$ 2,158.56</b>	<b>\$ 2,158.56</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Diabetes - No Complication and No Surgery (Episode Included: 228,520)				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	3.3	5.7	3.00	10.0	\$	7,898.80	\$	26.30
	Other Inpatient	0.1		15.12	1.7	\$	9,108.02	\$	1.00
	<b>Total Inpatient</b>	<b>3.4</b>		<b>3.38</b>	<b>11.6</b>	\$	<b>7,937.26</b>	\$	<b>27.30</b>
Outpatient	Avoidable_ER	2.6	2.6			\$	525.64	\$	1.35
	Advanced Imaging	15.7	16.0			\$	1,545.33	\$	24.32
	ER - Urgent	29.7				\$	541.64	\$	16.07
	OP Surgery	5.6				\$	1,654.46	\$	9.25
	Radiology - General	19.8				\$	458.26	\$	9.09
	Pathology_FOP	241.0				\$	207.80	\$	50.08
	Therapies	3.3				\$	250.05	\$	0.82
	Other Outpatient	346.4				\$	315.36	\$	109.25
	<b>Total Outpatient</b>							\$	<b>220.23</b>
								\$	<b>227.99</b>
Professional/Other	Office Visits	1,941.3	1,961.3			\$	96.23	\$	186.80
	ER Visits	30.8				\$	236.38	\$	7.29
	Consults	56.4				\$	216.75	\$	12.22
	Inpatient Surgery	3.1				\$	245.04	\$	0.75
	Outpatient Surgery	40.9				\$	89.83	\$	3.68
	Inpatient Visits	18.8				\$	146.07	\$	2.75
	Preventive Services	1,303.3				\$	14.01	\$	18.26
	Pathology_PROF	4,443.6				\$	12.83	\$	56.99
	Radiology	63.8				\$	123.04	\$	7.85
	Physical Therapy	6.3				\$	81.75	\$	0.51
	Cardiovascular	91.4				\$	69.62	\$	6.36
	Durable Medical Equip	659.8				\$	225.11	\$	148.53
	Home Health	12.3				\$	305.70	\$	3.76
	Other Pro/Other	376.6				\$	108.25	\$	40.77
	<b>Total Pro/Other</b>							\$	<b>496.52</b>
								\$	<b>509.11</b>
Pharmacy	Branded Drugs	5,876.0	52.9%	44.67	262,490.9	\$	208.63	\$	1,225.90
	Non-Branded Drugs	5,238.1		44.25	231,802.1	\$	22.83	\$	119.61
	<b>Total Pharmacy</b>	<b>11,114.1</b>		<b>44.47</b>	<b>494,293.0</b>	\$	<b>121.06</b>	\$	<b>1,345.51</b>
<b>Total</b>								\$	<b>2,089.55</b>
								\$	<b>2,124.46</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Diabetes - with Complication Only (Episode Included: 2,074 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day		Risk Adj
Inpatient	Med/Surg Admissions	310.5	39.8	2.55	791.7	\$	7,483.66	\$	2,323.76
	Other Inpatient	1.9		19.75	38.1	\$	9,283.34	\$	17.90
	<b>Total Inpatient</b>	<b>312.4</b>		<b>2.66</b>	<b>829.8</b>	<b>\$</b>	<b>7,494.77</b>	<b>\$</b>	<b>2,341.66</b>
							<b>\$</b>		<b>\$ 462.11</b>
Outpatient	Avoidable_ER	5.8	3.0			\$	514.75	\$	2.98
	Advanced Imaging	19.8	16.4			\$	1,650.62	\$	32.63
	ER - Urgent	192.9				\$	590.89	\$	113.96
	OP Surgery	4.3				\$	1,662.62	\$	7.21
	Radiology - General	33.3				\$	542.79	\$	18.06
	Pathology_FOP	456.1				\$	214.60	\$	97.88
	Therapies	19.8				\$	277.99	\$	5.50
	Other Outpatient	633.6				\$	391.45	\$	248.01
	<b>Total Outpatient</b>							<b>\$</b>	<b>526.23</b>
									<b>\$ 454.94</b>
Professional/Other	Office Visits	3,343.8	2,798.7			\$	93.61	\$	313.02
	ER Visits	384.3				\$	274.27	\$	105.40
	Consults	218.9				\$	221.07	\$	48.39
	Inpatient Surgery	9.2				\$	371.92	\$	3.41
	Outpatient Surgery	68.5				\$	90.32	\$	6.18
	Inpatient Visits	1,069.9				\$	196.92	\$	210.68
	Preventive Services	1,407.4				\$	14.63	\$	20.58
	Pathology_PROF	7,661.0				\$	12.01	\$	91.99
	Radiology	352.0				\$	75.95	\$	26.73
	Physical Therapy	8.2				\$	83.59	\$	0.69
	Cardiovascular	281.1				\$	63.76	\$	17.92
	Durable Medical Equip	1,586.8				\$	273.58	\$	434.12
	Home Health	55.9				\$	233.43	\$	13.06
	Other Pro/Other	691.4				\$	184.13	\$	127.31
	<b>Total Pro/Other</b>							<b>\$</b>	<b>1,419.49</b>
									<b>\$ 1,345.08</b>
Pharmacy	Branded Drugs	8,958.1	71.1%	38.93	348,710.7	\$	190.95	\$	1,710.55
	Non-Branded Drugs	3,633.1		39.65	144,036.2	\$	21.71	\$	78.88
	<b>Total Pharmacy</b>	<b>12,591.1</b>		<b>39.13</b>	<b>492,746.9</b>	<b>\$</b>	<b>142.12</b>	<b>\$</b>	<b>1,789.44</b>
<b>Total</b>								<b>\$</b>	<b>6,076.83</b>
									<b>\$ 4,452.79</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Diabetes - with Surgery Only (Episode Included: 2,638 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	6.8	14.0	7.83	53.4	\$	8,952.14	\$	61.08
	Other Inpatient	0.4		7.00	2.7	\$	8,433.23	\$	3.20
	<b>Total Inpatient</b>	<b>7.2</b>		<b>7.79</b>	<b>56.1</b>	\$	<b>8,924.83</b>	\$	<b>64.28</b>
Outpatient	Avoidable_ER	6.4	2.8			\$	530.80	\$	3.42
	Advanced Imaging	37.1	16.6			\$	1,517.08	\$	56.36
	ER - Urgent	70.5				\$	533.29	\$	37.60
	OP Surgery	364.3				\$	1,575.94	\$	574.10
	Radiology - General	59.5				\$	546.86	\$	32.55
	Pathology_FOP	358.2				\$	238.61	\$	85.48
	Therapies	28.8				\$	204.64	\$	5.90
	Other Outpatient	866.9				\$	382.92	\$	331.97
	<b>Total Outpatient</b>							\$	<b>1,127.37</b>
								\$	<b>400.44</b>
Professional/Other	Office Visits	3,540.9	2,263.4			\$	92.02	\$	325.84
	ER Visits	78.1				\$	239.60	\$	18.71
	Consults	197.1				\$	210.06	\$	41.41
	Inpatient Surgery	83.8				\$	554.60	\$	46.46
	Outpatient Surgery	1,745.3				\$	392.35	\$	684.76
	Inpatient Visits	84.2				\$	153.21	\$	12.89
	Preventive Services	1,543.6				\$	13.61	\$	21.01
	Pathology_PROF	6,311.2				\$	13.05	\$	82.37
	Radiology	203.9				\$	123.43	\$	25.17
	Physical Therapy	64.8				\$	72.53	\$	4.70
	Cardiovascular	622.8				\$	74.99	\$	46.71
	Durable Medical Equip	1,188.4				\$	222.62	\$	264.57
	Home Health	86.8				\$	243.34	\$	21.12
	Other Pro/Other	1,941.2				\$	108.41	\$	210.45
	<b>Total Pro/Other</b>							\$	<b>1,806.16</b>
								\$	<b>910.02</b>
Pharmacy	Branded Drugs	8,637.6	60.9%	42.91	370,676.3	\$	215.57	\$	1,862.01
	Non-Branded Drugs	5,537.5		44.16	244,552.3	\$	23.96	\$	132.67
	<b>Total Pharmacy</b>	<b>14,175.1</b>		<b>43.40</b>	<b>615,228.6</b>	\$	<b>140.72</b>	\$	<b>1,994.68</b>
<b>Total</b>								\$	<b>4,992.50</b>
								\$	<b>3,281.44</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Hyperlipidemia - All (Episode Included: 398,559)				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	-	-	-	0.2	\$	-	\$	-
	Other Inpatient	-	-	-	-	\$	-	\$	-
	<b>Total Inpatient</b>	-		#DIV/0!	0.2		#DIV/0!		#DIV/0!
Outpatient	Avoidable_ER	0.0	0.0			\$	552.43	\$	0.00
	Advanced Imaging	0.3	0.3			\$	1,129.48	\$	0.39
	ER - Urgent	0.4				\$	529.88	\$	0.24
	OP Surgery	0.3				\$	1,623.03	\$	0.50
	Radiology - General	4.9				\$	654.24	\$	3.20
	Pathology_FOP	112.9				\$	234.20	\$	26.45
	Therapies	0.0				\$	232.53	\$	0.01
	Other Outpatient	192.8				\$	160.75	\$	30.99
	<b>Total Outpatient</b>							\$	61.79
								\$	61.75
Professional/Other	Office Visits	770.4	770.4			\$	88.90	\$	68.48
	ER Visits	0.5				\$	219.45	\$	0.10
	Consults	7.3				\$	210.07	\$	1.53
	Inpatient Surgery	0.2				\$	360.19	\$	0.08
	Outpatient Surgery	5.3				\$	59.98	\$	0.32
	Inpatient Visits	0.3				\$	145.33	\$	0.05
	Preventive Services	1,319.9				\$	15.72	\$	20.75
	Pathology_PROF	1,534.0				\$	15.20	\$	23.32
	Radiology	12.5				\$	101.01	\$	1.26
	Physical Therapy	0.8				\$	77.20	\$	0.06
	Cardiovascular	60.9				\$	54.91	\$	3.34
	Durable Medical Equip	0.7				\$	58.14	\$	0.04
	Home Health	0.2				\$	246.40	\$	0.04
	Other Pro/Other	19.0				\$	74.96	\$	1.43
	<b>Total Pro/Other</b>							\$	120.80
								\$	120.84
Pharmacy	Branded Drugs	1,755.5	55.2%	46.38	81,410.5	\$	162.47	\$	285.20
	Non-Branded Drugs	1,426.2		44.80	63,893.1	\$	28.30	\$	40.36
	<b>Total Pharmacy</b>	3,181.6		45.67	145,303.6	\$	102.33	\$	325.56
<b>Total</b>								\$	508.15
								\$	508.15

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.



Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Hyperlipidemia - No Complication and No Surgery (Episode Included: 398,559 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	-	-	-	0.2	\$	-	\$	-
	Other Inpatient	-	-	-	-	\$	-	\$	-
	<b>Total Inpatient</b>	-		#DIV/0!	0.2		#DIV/0!	#DIV/0!	\$ - \$ -
Outpatient	Avoidable_ER	0.0	0.0			\$	552.43	\$	0.00
	Advanced Imaging	0.3	0.3			\$	1,129.48	\$	0.39
	ER - Urgent	0.4				\$	529.88	\$	0.24
	OP Surgery	0.3				\$	1,623.03	\$	0.50
	Radiology - General	4.9				\$	654.24	\$	3.20
	Pathology_FOP	112.9				\$	234.20	\$	26.45
	Therapies	0.0				\$	232.53	\$	0.01
	Other Outpatient	192.8				\$	160.75	\$	30.99
	<b>Total Outpatient</b>							\$ 61.79	\$ 61.75
Professional/Other	Office Visits	770.4	770.4			\$	88.90	\$	68.48
	ER Visits	0.5				\$	219.45	\$	0.10
	Consults	7.3				\$	210.07	\$	1.53
	Inpatient Surgery	0.2				\$	360.19	\$	0.08
	Outpatient Surgery	5.3				\$	59.98	\$	0.32
	Inpatient Visits	0.3				\$	145.33	\$	0.05
	Preventive Services	1,319.9				\$	15.72	\$	20.75
	Pathology_PROF	1,534.0				\$	15.20	\$	23.32
	Radiology	12.5				\$	101.01	\$	1.26
	Physical Therapy	0.8				\$	77.20	\$	0.06
	Cardiovascular	60.9				\$	54.91	\$	3.34
	Durable Medical Equip	0.7				\$	58.14	\$	0.04
	Home Health	0.2				\$	246.40	\$	0.04
	Other Pro/Other	19.0				\$	74.96	\$	1.43
	<b>Total Pro/Other</b>							\$ 120.80	\$ 120.84
Pharmacy	Branded Drugs	1,755.5	55.2%	46.38	81,410.5	\$	162.47	\$	285.20
	Non-Branded Drugs	1,426.2		44.80	63,893.1	\$	28.30	\$	40.36
	<b>Total Pharmacy</b>	3,181.6		45.67	145,303.6	\$	102.33	\$	325.56
<b>Total</b>								\$ 508.15	\$ 508.15

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Hypertension - All (Episode Included: 654,739 )											
Service Type		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode			Cost Per Episode				
		Raw Units	Risk Adj	Days/Unit	Days	Unit		per Day	Cost Normalized		Risk Adj		
Inpatient	Med/Surg Admissions	0.2	0.2	5.91	1.4	\$	5,855.37	\$	990.10	\$	1.35		
	Other Inpatient	-		-	0.0	\$	-	\$	-	\$	-		
	Total Inpatient	0.2		5.95	1.4	\$	5,855.37	\$	984.59	\$	1.35	\$	1.35
Outpatient	Avoidable_ER	1.7	1.7			\$	533.03			\$	0.93		
	Advanced Imaging	13.3	13.3			\$	1,322.65			\$	17.58		
	ER - Urgent	24.9				\$	555.30			\$	13.80		
	OP Surgery	2.3				\$	2,279.00			\$	5.26		
	Radiology - General	31.3				\$	446.41			\$	13.95		
	Pathology_FOP	158.4				\$	245.55			\$	38.90		
	Therapies	0.5				\$	247.52			\$	0.12		
	Other Outpatient	245.4				\$	367.16			\$	90.11		
	Total Outpatient									\$	180.64	\$	179.36
Professional/Other	Office Visits	1,303.1	1,303.1			\$	90.32			\$	117.69		
	ER Visits	31.8				\$	243.30			\$	7.75		
	Consults	36.8				\$	212.19			\$	7.81		
	Inpatient Surgery	1.9				\$	397.54			\$	0.75		
	Outpatient Surgery	5.2				\$	251.06			\$	1.30		
	Inpatient Visits	9.0				\$	152.56			\$	1.38		
	Preventive Services	568.1				\$	14.40			\$	8.18		
	Pathology_PROF	1,398.5				\$	13.89			\$	19.42		
	Radiology	172.2				\$	120.72			\$	20.79		
	Physical Therapy	1.9				\$	80.16			\$	0.15		
	Cardiovascular	339.2				\$	87.38			\$	29.64		
	Durable Medical Equip	6.2				\$	92.45			\$	0.58		
	Home Health	3.4				\$	289.52			\$	0.98		
	Other Pro/Other	127.6				\$	124.95			\$	15.94		
	Total Pro/Other									\$	232.36	\$	233.63
Pharmacy	Branded Drugs	1,529.0	22.5%	45.19	69,100.3	\$	120.50			\$	184.24		
	Non-Branded Drugs	5,279.5		43.05	227,287.0	\$	21.39			\$	112.95		
	Total Pharmacy	6,808.4		43.53	296,387.3	\$	43.65			\$	297.19	\$	297.19
Total										\$	711.53	\$	711.53

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Hypertension - No Complication and No Surgery (Episode Included: 636,126)				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	0.2	0.2	5.07	1.2	\$	5,855.51	\$	1,155.59
	Other Inpatient	-		-	0.0	\$	-	\$	-
	<b>Total Inpatient</b>	<b>0.2</b>		<b>5.09</b>	<b>1.2</b>	\$	<b>5,855.51</b>	\$	<b>1,149.50</b>
Outpatient	Avoidable_ER	1.7	1.7			\$	530.47	\$	0.90
	Advanced Imaging	13.0	13.2			\$	1,328.27	\$	17.27
	ER - Urgent	23.8				\$	556.00	\$	13.25
	OP Surgery	2.2				\$	2,260.49	\$	5.01
	Radiology - General	30.6				\$	446.83	\$	13.67
	Pathology_FOP	157.6				\$	245.15	\$	38.65
	Therapies	0.5				\$	248.98	\$	0.12
	Other Outpatient	243.8				\$	364.48	\$	88.86
	<b>Total Outpatient</b>							\$	<b>177.73</b>
								\$	<b>178.51</b>
Professional/Other	Office Visits	1,275.5	1,302.5			\$	90.13	\$	114.96
	ER Visits	30.4				\$	243.58	\$	7.41
	Consults	35.1				\$	211.64	\$	7.43
	Inpatient Surgery	1.8				\$	392.72	\$	0.70
	Outpatient Surgery	4.9				\$	242.34	\$	1.19
	Inpatient Visits	8.2				\$	150.77	\$	1.23
	Preventive Services	563.6				\$	14.40	\$	8.12
	Pathology_PROF	1,376.2				\$	13.89	\$	19.12
	Radiology	167.1				\$	120.21	\$	20.08
	Physical Therapy	1.8				\$	79.66	\$	0.14
	Cardiovascular	328.5				\$	86.87	\$	28.54
	Durable Medical Equip	6.1				\$	91.96	\$	0.56
	Home Health	3.3				\$	291.20	\$	0.96
	Other Pro/Other	123.0				\$	124.80	\$	15.35
	<b>Total Pro/Other</b>							\$	<b>225.81</b>
								\$	<b>232.46</b>
Pharmacy	Branded Drugs	1,519.3	22.4%	45.31	68,846.5	\$	120.61	\$	183.25
	Non-Branded Drugs	5,265.9		43.16	227,260.2	\$	21.36	\$	112.50
	<b>Total Pharmacy</b>	<b>6,785.3</b>		<b>43.64</b>	<b>296,106.7</b>	\$	<b>43.59</b>	\$	<b>295.75</b>
<b>Total</b>								\$	<b>700.66</b>
								\$	<b>709.12</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Hypertension - with Complication Only (Episode Included: 18,613 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	0.1	0.3	69.00	7.4	\$	5,844.90	\$	84.71
	Other Inpatient	-		-	0.1	\$	-	\$	-
	<b>Total Inpatient</b>	<b>0.1</b>		<b>69.50</b>	<b>7.5</b>	\$	<b>5,844.90</b>	\$	<b>84.10</b>
Outpatient	Avoidable_ER	3.4	1.7			\$	576.26	\$	1.98
	Advanced Imaging	23.2	15.3			\$	1,214.75	\$	28.13
	ER - Urgent	59.5				\$	545.77	\$	32.49
	OP Surgery	5.4				\$	2,540.14	\$	13.65
	Radiology - General	53.9				\$	438.30	\$	23.62
	Pathology_FOP	184.4				\$	257.26	\$	47.44
	Therapies	0.4				\$	192.51	\$	0.08
	Other Outpatient	300.3				\$	441.63	\$	132.61
	<b>Total Outpatient</b>							\$	<b>279.99</b>
								\$	<b>208.68</b>
Professional/Other	Office Visits	2,244.2	1,322.5			\$	93.96	\$	210.88
	ER Visits	80.2				\$	239.63	\$	19.21
	Consults	95.1				\$	219.11	\$	20.84
	Inpatient Surgery	4.7				\$	459.98	\$	2.17
	Outpatient Surgery	14.2				\$	354.32	\$	5.03
	Inpatient Visits	38.2				\$	165.69	\$	6.33
	Preventive Services	722.2				\$	14.37	\$	10.38
	Pathology_PROF	2,158.0				\$	13.85	\$	29.89
	Radiology	347.6				\$	129.20	\$	44.90
	Physical Therapy	5.8				\$	85.44	\$	0.50
	Cardiovascular	702.7				\$	95.54	\$	67.14
	Durable Medical Equip	10.2				\$	102.61	\$	1.04
	Home Health	6.0				\$	257.83	\$	1.55
	Other Pro/Other	285.3				\$	127.16	\$	36.28
	<b>Total Pro/Other</b>							\$	<b>456.14</b>
Pharmacy	Branded Drugs	1,858.0	24.4%	41.86	77,775.7	\$	117.45	\$	218.22
	Non-Branded Drugs	5,741.5		39.75	228,201.4	\$	22.33	\$	128.23
	<b>Total Pharmacy</b>	<b>7,599.5</b>		<b>40.26</b>	<b>305,977.1</b>	\$	<b>45.59</b>	\$	<b>346.46</b>
<b>Total</b>								\$	<b>1,083.21</b>
								\$	<b>794.12</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Ischemic Heart Disease - All (Episode Included: 76,647 )							
Service Type		Utilization per Thousand Episodes				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	134.1	134.1	3.13	419.4	\$ 25,585.57	\$ 8,179.90	\$ 3,430.57	
	Other Inpatient	0.8		11.08	9.3	\$ 20,798.08	\$ 1,877.40	\$ 17.37	
	<b>Total Inpatient</b>	<b>134.9</b>		<b>3.18</b>	<b>428.6</b>	<b>\$ 25,555.94</b>	<b>\$ 8,043.89</b>	<b>\$ 3,447.94</b>	<b>\$ 3,447.94</b>
Outpatient	Avoidable_ER	1.4	1.4			\$ 527.01		\$ 0.76	
	Advanced Imaging	22.8	22.8			\$ 1,150.38		\$ 26.25	
	ER - Urgent	111.5				\$ 664.78		\$ 74.10	
	OP Surgery	120.0				\$ 4,570.18		\$ 548.44	
	Radiology - General	113.4				\$ 880.34		\$ 99.82	
	Pathology_FOP	317.3				\$ 284.78		\$ 90.37	
	Therapies	4.9				\$ 243.98		\$ 1.20	
	Other Outpatient	870.8				\$ 657.52		\$ 572.54	
	<b>Total Outpatient</b>							<b>\$ 1,413.47</b>	<b>\$ 1,409.15</b>
Professional/Other	Office Visits	1,652.2	1,652.2			\$ 93.49		\$ 154.47	
	ER Visits	231.9				\$ 274.12		\$ 63.57	
	Consults	194.8				\$ 221.94		\$ 43.24	
	Inpatient Surgery	317.0				\$ 875.32		\$ 277.45	
	Outpatient Surgery	187.5				\$ 589.36		\$ 110.53	
	Inpatient Visits	489.7				\$ 168.18		\$ 82.35	
	Preventive Services	451.1				\$ 13.98		\$ 6.31	
	Pathology_PROF	2,282.6				\$ 11.71		\$ 26.74	
	Radiology	1,027.9				\$ 154.28		\$ 158.58	
	Physical Therapy	2.1				\$ 82.98		\$ 0.18	
	Cardiovascular	2,978.6				\$ 90.56		\$ 269.75	
	Durable Medical Equip	79.0				\$ 136.33		\$ 10.77	
	Home Health	27.3				\$ 365.65		\$ 9.98	
	Other Pro/Other	604.3				\$ 288.04		\$ 174.05	
	<b>Total Pro/Other</b>							<b>\$ 1,387.97</b>	<b>\$ 1,392.30</b>
Pharmacy	Branded Drugs	3,211.6	40.9%	48.18	154,718.3	\$ 201.40		\$ 646.80	
	Non-Branded Drugs	4,646.5		41.69	193,701.8	\$ 23.91		\$ 111.11	
	<b>Total Pharmacy</b>	<b>7,858.1</b>		<b>44.34</b>	<b>348,420.1</b>	<b>\$ 96.45</b>		<b>\$ 757.91</b>	<b>\$ 757.91</b>
<b>Total</b>								<b>\$ 7,007.29</b>	<b>\$ 7,007.29</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Ischemic Heart Disease - No Complication and No Surgery (Episode Included: 67,386 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	48.1	111.2	2.42	116.6	\$	14,026.78	\$	5,792.12
	Other Inpatient	0.5		10.18	5.0	\$	17,474.07	\$	1,716.20
	<b>Total Inpatient</b>	<b>48.6</b>		<b>2.50</b>	<b>121.6</b>	<b>\$</b>	<b>14,061.50</b>	<b>\$</b>	<b>5,624.94</b>
								<b>\$</b>	<b>683.81</b>
Outpatient	Avoidable_ER	1.4	1.4			\$	536.08	\$	0.76
	Advanced Imaging	21.5	22.3			\$	1,130.99	\$	24.35
	ER - Urgent	94.6				\$	661.48	\$	62.59
	OP Surgery	93.5				\$	4,184.17	\$	391.06
	Radiology - General	94.3				\$	936.60	\$	88.36
	Pathology_FOP	278.1				\$	269.92	\$	75.07
	Therapies	2.9				\$	249.87	\$	0.72
	Other Outpatient	588.3				\$	701.04	\$	412.40
	<b>Total Outpatient</b>							<b>\$</b>	<b>1,055.31</b>
								<b>\$</b>	<b>1,348.69</b>
Professional/Other	Office Visits	1,491.1	1,609.6			\$	93.18	\$	138.93
	ER Visits	167.3				\$	277.35	\$	46.39
	Consults	139.2				\$	221.30	\$	30.81
	Inpatient Surgery	41.0				\$	569.43	\$	23.33
	Outpatient Surgery	118.5				\$	450.65	\$	53.41
	Inpatient Visits	167.8				\$	171.75	\$	28.82
	Preventive Services	408.6				\$	14.00	\$	5.72
	Pathology_PROF	1,679.4				\$	11.74	\$	19.72
	Radiology	796.2				\$	179.74	\$	143.10
	Physical Therapy	1.7				\$	84.18	\$	0.14
	Cardiovascular	2,200.2				\$	98.81	\$	217.40
	Durable Medical Equip	74.6				\$	124.91	\$	9.32
	Home Health	13.2				\$	360.58	\$	4.77
	Other Pro/Other	527.7				\$	209.91	\$	110.77
	<b>Total Pro/Other</b>							<b>\$</b>	<b>832.64</b>
								<b>\$</b>	<b>1,197.62</b>
Pharmacy	Branded Drugs	2,988.6	40.2%	49.53	148,024.2	\$	203.85	\$	609.24
	Non-Branded Drugs	4,445.5		42.77	190,154.1	\$	24.55	\$	109.14
	<b>Total Pharmacy</b>	<b>7,434.0</b>		<b>45.49</b>	<b>338,178.3</b>	<b>\$</b>	<b>96.63</b>	<b>\$</b>	<b>718.38</b>
<b>Total</b>								<b>\$</b>	<b>3,290.14</b>
								<b>\$</b>	<b>5,807.44</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Ischemic Heart Disease - with Complication Only (Episode Included: 2,059 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day		Risk Adj
Inpatient	Med/Surg Admissions	419.1	362.4	3.39	1,420.1	\$	20,031.79	\$	5,912.25
	Other Inpatient	6.3		16.69	105.4	\$	25,871.39	\$	1,549.90
	<b>Total Inpatient</b>	<b>425.4</b>		<b>3.59</b>	<b>1,525.5</b>	<b>\$</b>	<b>20,118.45</b>	<b>\$</b>	<b>5,610.88</b>
								<b>\$</b>	<b>8,559.38</b>
Outpatient	Avoidable_ER	1.9	1.5			\$	365.08	\$	0.71
	Advanced Imaging	26.2	26.2			\$	1,599.15	\$	41.94
	ER - Urgent	205.0				\$	654.43	\$	134.13
	OP Surgery	103.9				\$	5,467.98	\$	568.31
	Radiology - General	134.0				\$	732.14	\$	98.14
	Pathology_FOP	347.3				\$	289.17	\$	100.41
	Therapies	8.3				\$	220.78	\$	1.82
	Other Outpatient	1,360.9				\$	608.95	\$	828.69
	<b>Total Outpatient</b>							<b>\$</b>	<b>1,774.15</b>
								<b>\$</b>	<b>1,680.63</b>
Professional/Other	Office Visits	1,955.8	2,016.7			\$	94.18	\$	184.20
	ER Visits	503.6				\$	292.50	\$	147.31
	Consults	371.5				\$	227.26	\$	84.44
	Inpatient Surgery	375.9				\$	534.33	\$	200.86
	Outpatient Surgery	131.6				\$	445.88	\$	58.69
	Inpatient Visits	1,809.6				\$	180.45	\$	326.55
	Preventive Services	482.3				\$	16.71	\$	8.06
	Pathology_PROF	3,825.6				\$	11.54	\$	44.16
	Radiology	1,563.9				\$	107.61	\$	168.29
	Physical Therapy	6.8				\$	74.57	\$	0.51
	Cardiovascular	4,621.7				\$	89.59	\$	414.07
	Durable Medical Equip	133.6				\$	164.22	\$	21.93
	Home Health	67.0				\$	429.32	\$	28.77
	Other Pro/Other	826.1				\$	625.20	\$	516.50
	<b>Total Pro/Other</b>							<b>\$</b>	<b>2,204.35</b>
								<b>\$</b>	<b>3,160.16</b>
Pharmacy	Branded Drugs	2,922.3	36.6%	43.79	127,962.1	\$	196.06	\$	572.94
	Non-Branded Drugs	5,067.5		37.00	187,504.6	\$	22.49	\$	113.98
	<b>Total Pharmacy</b>	<b>7,989.8</b>		<b>39.48</b>	<b>315,466.7</b>	<b>\$</b>	<b>85.97</b>	<b>\$</b>	<b>686.92</b>
<b>Total</b>								<b>\$</b>	<b>13,224.80</b>
								<b>\$</b>	<b>18,313.91</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Ischemic Heart Disease - with Surgery Only (Episode Included: 4,471 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	709.0	177.8	3.43	2,435.0	\$	33,859.93	\$	9,859.10
	Other Inpatient	2.9		9.46	27.5	\$	17,891.41	\$	1,890.96
	<b>Total Inpatient</b>	<b>711.9</b>		<b>3.46</b>	<b>2,462.5</b>	<b>\$</b>	<b>33,794.71</b>	<b>\$</b>	<b>9,770.08</b>
Outpatient	Avoidable_ER	1.8	1.9			\$	490.20	\$	0.88
	Advanced Imaging	41.8	27.8			\$	1,147.21	\$	47.98
	ER - Urgent	213.2				\$	671.75	\$	143.18
	OP Surgery	514.9				\$	5,405.40	\$	2,783.10
	Radiology - General	336.2				\$	753.04	\$	253.15
	Pathology_FOP	788.6				\$	335.68	\$	264.73
	Therapies	26.2				\$	221.75	\$	5.80
	Other Outpatient	3,028.0				\$	671.02	\$	2,031.83
	<b>Total Outpatient</b>							<b>\$</b>	<b>5,530.65</b>
									<b>\$</b>
Professional/Other	Office Visits	3,240.7	1,837.8			\$	94.24	\$	305.41
	ER Visits	694.3				\$	241.45	\$	167.63
	Consults	669.9				\$	220.83	\$	147.93
	Inpatient Surgery	2,675.0				\$	977.35	\$	2,614.43
	Outpatient Surgery	1,136.2				\$	775.16	\$	880.75
	Inpatient Visits	2,273.5				\$	150.24	\$	341.57
	Preventive Services	842.5				\$	13.12	\$	11.05
	Pathology_PROF	7,145.8				\$	11.69	\$	83.56
	Radiology	3,073.4				\$	110.43	\$	339.38
	Physical Therapy	4.5				\$	79.02	\$	0.35
	Cardiovascular	9,544.4				\$	73.05	\$	697.25
	Durable Medical Equip	125.5				\$	125.98	\$	15.81
	Home Health	152.1				\$	329.54	\$	50.12
	Other Pro/Other	1,253.2				\$	298.28	\$	373.80
	<b>Total Pro/Other</b>							<b>\$</b>	<b>6,029.05</b>
									<b>\$</b>
Pharmacy	Branded Drugs	5,483.8	45.8%	42.77	234,532.1	\$	193.22	\$	1,059.60
	Non-Branded Drugs	6,499.4		36.24	235,547.3	\$	20.83	\$	135.38
	<b>Total Pharmacy</b>	<b>11,983.2</b>		<b>39.23</b>	<b>470,079.4</b>	<b>\$</b>	<b>99.72</b>	<b>\$</b>	<b>1,194.98</b>
<b>Total</b>								<b>\$</b>	<b>36,813.86</b>
								<b>\$</b>	<b>9,724.11</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.



Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Ischemic Heart Disease - with Complication and Surgery (Episode Included: 2,731 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	1,098.5	454.9	3.49	3,836.7	\$	30,938.86	\$	8,858.23
	Other Inpatient	1.8		6.60	12.1	\$	37,103.29	\$	5,621.71
	<b>Total Inpatient</b>	<b>1,100.3</b>		<b>3.50</b>	<b>3,848.8</b>	<b>\$</b>	<b>30,949.12</b>	<b>\$</b>	<b>8,848.07</b>
Outpatient	Avoidable_ER	0.7	1.3			\$	563.07	\$	0.41
	Advanced Imaging	20.9	24.8			\$	1,229.00	\$	25.65
	ER - Urgent	290.0				\$	688.51	\$	199.67
	OP Surgery	140.6				\$	5,393.70	\$	758.40
	Radiology - General	203.2				\$	654.35	\$	132.98
	Pathology_FOP	490.3				\$	356.47	\$	174.77
	Therapies	17.2				\$	283.26	\$	4.87
	Other Outpatient	3,939.9				\$	492.86	\$	1,941.84
	<b>Total Outpatient</b>							<b>\$</b>	<b>3,238.60</b>
									<b>\$</b>
Professional/Other	Office Visits	2,798.6	2,123.5			\$	95.87	\$	268.29
	ER Visits	864.9				\$	293.55	\$	253.89
	Consults	656.5				\$	224.86	\$	147.63
	Inpatient Surgery	3,222.3				\$	862.63	\$	2,779.61
	Outpatient Surgery	379.7				\$	784.95	\$	298.06
	Inpatient Visits	4,516.3				\$	175.98	\$	794.78
	Preventive Services	834.9				\$	13.98	\$	11.67
	Pathology_PROF	8,039.5				\$	11.65	\$	93.65
	Radiology	2,992.3				\$	79.25	\$	237.15
	Physical Therapy	6.6				\$	86.45	\$	0.57
	Cardiovascular	10,199.6				\$	73.83	\$	752.99
	Durable Medical Equip	69.9				\$	427.40	\$	29.89
	Home Health	139.5				\$	418.90	\$	58.44
	Other Pro/Other	1,263.6				\$	910.31	\$	1,150.30
	<b>Total Pro/Other</b>							<b>\$</b>	<b>6,876.91</b>
Pharmacy	Branded Drugs	5,212.4	45.4%	40.17	209,398.0	\$	182.95	\$	953.59
	Non-Branded Drugs	6,257.4		34.74	217,405.7	\$	18.82	\$	117.75
	<b>Total Pharmacy</b>	<b>11,469.8</b>		<b>37.21</b>	<b>426,803.7</b>	<b>\$</b>	<b>93.41</b>	<b>\$</b>	<b>1,071.34</b>
<b>Total</b>								<b>\$</b>	<b>45,241.08</b>
								<b>\$</b>	<b>23,640.70</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Joint Degeneration, localized - back - All (Episode Included: 193,716 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	19.1	19.1	2.48	47.3	\$ 21,771.43	\$ 8,772.25	\$ 414.94	
	Other Inpatient	0.3		13.16	4.3	\$ 10,728.94	\$ 815.50	\$ 3.54	
	<b>Total Inpatient</b>	<b>19.4</b>		<b>2.66</b>	<b>51.6</b>	<b>\$ 21,583.27</b>	<b>\$ 8,102.63</b>	<b>\$ 418.48</b>	<b>\$ 418.48</b>
Outpatient	Avoidable_ER	19.7	19.7			\$ 474.35		\$ 9.35	
	Advanced Imaging	317.7	317.7			\$ 884.04		\$ 280.83	
	ER - Urgent	25.7				\$ 483.00		\$ 12.39	
	OP Surgery	191.7				\$ 1,600.87		\$ 306.89	
	Radiology - General	128.8				\$ 520.68		\$ 67.04	
	Pathology_FOP	43.1				\$ 302.16		\$ 13.01	
	Therapies	284.8				\$ 219.38		\$ 62.48	
	Other Outpatient	216.3				\$ 818.05		\$ 176.97	
	<b>Total Outpatient</b>							<b>\$ 928.96</b>	<b>\$ 860.67</b>
Professional/Other	Office Visits	2,036.9	2,036.9			\$ 86.77		\$ 176.74	
	ER Visits	42.7				\$ 195.00		\$ 8.33	
	Consults	171.4				\$ 202.67		\$ 34.74	
	Inpatient Surgery	107.5				\$ 974.46		\$ 104.75	
	Outpatient Surgery	815.5				\$ 305.47		\$ 249.10	
	Inpatient Visits	23.8				\$ 135.97		\$ 3.23	
	Preventive Services	62.2				\$ 13.12		\$ 0.82	
	Pathology_PROF	708.0				\$ 26.78		\$ 18.96	
	Radiology	1,001.7				\$ 101.85		\$ 102.02	
	Physical Therapy	3,711.0				\$ 78.65		\$ 291.88	
	Cardiovascular	13.7				\$ 27.02		\$ 0.37	
	Durable Medical Equip	164.3				\$ 171.74		\$ 28.21	
	Home Health	22.7				\$ 254.82		\$ 5.79	
	Other Pro/Other	3,910.9				\$ 48.49		\$ 189.64	
	<b>Total Pro/Other</b>							<b>\$ 1,214.58</b>	<b>\$ 1,282.88</b>
Pharmacy	Branded Drugs	670.9	15.6%	36.38	24,409.7	\$ 270.69		\$ 181.62	
	Non-Branded Drugs	3,630.0		24.50	88,922.6	\$ 30.83		\$ 111.91	
	<b>Total Pharmacy</b>	<b>4,301.0</b>		<b>26.35</b>	<b>113,332.3</b>	<b>\$ 68.25</b>		<b>\$ 293.53</b>	<b>\$ 293.53</b>
<b>Total</b>								<b>\$ 2,855.56</b>	<b>\$ 2,855.56</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Joint Degeneration, localized - back - No Complication and No Surgery (Episode Included: 165,962 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	2.5	18.3	3.35	8.3	\$	14,598.75	\$	36.42
	Other Inpatient	0.2		13.12	2.6	\$	10,913.44	\$	2.17
	<b>Total Inpatient</b>	<b>2.7</b>		<b>4.07</b>	<b>11.0</b>	<b>\$</b>	<b>14,326.68</b>	<b>\$</b>	<b>38.59</b>
									<b>\$ 386.84</b>
Outpatient	Avoidable_ER	17.3	19.1			\$	472.85	\$	8.16
	Advanced Imaging	257.1	311.2			\$	870.12	\$	223.72
	ER - Urgent	22.9				\$	472.99	\$	10.85
	OP Surgery	124.0				\$	1,379.56	\$	171.08
	Radiology - General	104.8				\$	513.69	\$	53.85
	Pathology_FOP	28.0				\$	305.39	\$	8.56
	Therapies	240.0				\$	218.90	\$	52.54
	Other Outpatient	157.1				\$	803.12	\$	126.18
	<b>Total Outpatient</b>							<b>\$</b>	<b>654.93</b>
									<b>\$ 810.04</b>
Professional/Other	Office Visits	1,780.7	2,004.6			\$	86.20	\$	153.49
	ER Visits	37.0				\$	190.62	\$	7.05
	Consults	127.8				\$	202.54	\$	25.88
	Inpatient Surgery	7.9				\$	356.71	\$	2.81
	Outpatient Surgery	569.8				\$	233.12	\$	132.84
	Inpatient Visits	8.8				\$	137.93	\$	1.22
	Preventive Services	55.4				\$	13.72	\$	0.76
	Pathology_PROF	550.2				\$	26.40	\$	14.52
	Radiology	814.1				\$	99.37	\$	80.90
	Physical Therapy	3,662.8				\$	78.12	\$	286.14
	Cardiovascular	6.9				\$	30.81	\$	0.21
	Durable Medical Equip	133.9				\$	140.36	\$	18.79
	Home Health	15.6				\$	236.25	\$	3.68
	Other Pro/Other	3,963.1				\$	45.58	\$	180.64
	<b>Total Pro/Other</b>							<b>\$</b>	<b>908.94</b>
									<b>\$ 1,234.48</b>
Pharmacy	Branded Drugs	588.6	15.7%	36.99	21,769.3	\$	264.29	\$	155.55
	Non-Branded Drugs	3,149.4		24.80	78,108.2	\$	29.89	\$	94.12
	<b>Total Pharmacy</b>	<b>3,738.0</b>		<b>26.72</b>	<b>99,877.5</b>	<b>\$</b>	<b>66.79</b>	<b>\$</b>	<b>249.68</b>
									<b>\$ 276.47</b>
<b>Total</b>								<b>\$</b>	<b>1,852.13</b>
									<b>\$ 2,707.84</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Joint Degeneration, localized - back - with Complication Only (Episode Included: 19,822 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	8.8	22.8	3.89	34.3	\$ 16,963.32	\$ 4,365.56	\$ 149.76	
	Other Inpatient	0.9		17.29	14.8	\$ 11,238.58	\$ 649.85	\$ 9.64	
	<b>Total Inpatient</b>	<b>9.7</b>		<b>5.07</b>	<b>49.1</b>	<b>\$ 16,456.44</b>	<b>\$ 3,243.98</b>	<b>\$ 159.40</b>	<b>\$ 570.30</b>
Outpatient	Avoidable_ER	26.2	22.3			\$ 465.36		\$ 12.21	
	Advanced Imaging	560.9	352.8			\$ 900.41		\$ 505.03	
	ER - Urgent	27.7				\$ 510.99		\$ 14.18	
	OP Surgery	432.6				\$ 1,265.65		\$ 547.52	
	Radiology - General	201.9				\$ 598.66		\$ 120.90	
	Pathology_FOP	59.6				\$ 298.57		\$ 17.80	
	Therapies	452.8				\$ 219.91		\$ 99.58	
	Other Outpatient	426.5				\$ 770.04		\$ 328.42	
	<b>Total Outpatient</b>							<b>\$ 1,645.65</b>	<b>\$ 1,131.29</b>
Professional/Other	Office Visits	3,440.8	2,200.6			\$ 88.15		\$ 303.29	
	ER Visits	50.2				\$ 199.68		\$ 10.03	
	Consults	318.0				\$ 204.93		\$ 65.17	
	Inpatient Surgery	27.3				\$ 415.94		\$ 11.35	
	Outpatient Surgery	1,698.8				\$ 243.88		\$ 414.29	
	Inpatient Visits	32.0				\$ 133.41		\$ 4.27	
	Preventive Services	82.6				\$ 12.71		\$ 1.05	
	Pathology_PROF	1,232.4				\$ 31.87		\$ 39.28	
	Radiology	1,672.3				\$ 109.25		\$ 182.69	
	Physical Therapy	3,829.6				\$ 81.22		\$ 311.03	
	Cardiovascular	13.2				\$ 27.78		\$ 0.37	
	Durable Medical Equip	281.6				\$ 145.37		\$ 40.94	
	Home Health	45.3				\$ 311.43		\$ 14.11	
	Other Pro/Other	3,543.0				\$ 56.23		\$ 199.22	
	<b>Total Pro/Other</b>							<b>\$ 1,597.09</b>	<b>\$ 1,537.61</b>
Pharmacy	Branded Drugs	1,187.4	17.0%	34.81	41,338.2	\$ 299.44		\$ 355.56	
	Non-Branded Drugs	5,804.3		25.88	150,234.3	\$ 37.86		\$ 219.73	
	<b>Total Pharmacy</b>	<b>6,991.7</b>		<b>27.40</b>	<b>191,572.5</b>	<b>\$ 82.28</b>		<b>\$ 575.29</b>	<b>\$ 391.60</b>
<b>Total</b>								<b>\$ 3,977.43</b>	<b>\$ 3,630.80</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Joint Degeneration, localized - back - with Surgery Only (Episode Included: 4,294 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes							
		Raw Units	Risk Adj	Days/Unit	Days	Unit	per Day	Cost Normalized	Risk Adj
Inpatient	Med/Surg Admissions	327.2	24.0	2.14	700.0	\$	21,935.38	\$	7,177.27
	Other Inpatient	1.2		7.00	8.2	\$	11,910.73	\$	13.87
	<b>Total Inpatient</b>	<b>328.4</b>		<b>2.16</b>	<b>708.2</b>	<b>\$</b>	<b>21,899.83</b>	<b>\$</b>	<b>7,191.14</b>
									<b>\$ 635.24</b>
Outpatient	Avoidable_ER	49.1	23.2			\$	492.94	\$	24.22
	Advanced Imaging	920.6	356.0			\$	937.10	\$	862.68
	ER - Urgent	80.1				\$	519.75	\$	41.64
	OP Surgery	934.1				\$	2,628.66	\$	2,455.41
	Radiology - General	392.2				\$	449.64	\$	176.34
	Pathology_FOP	300.4				\$	294.17	\$	88.37
	Therapies	678.4				\$	223.55	\$	151.65
	Other Outpatient	826.5				\$	930.56	\$	769.11
	<b>Total Outpatient</b>							<b>\$</b>	<b>4,569.43</b>
									<b>\$ 1,181.06</b>
Professional/Other	Office Visits	3,345.8	2,234.2			\$	89.27	\$	298.69
	ER Visits	148.1				\$	216.10	\$	32.01
	Consults	662.1				\$	199.00	\$	131.76
	Inpatient Surgery	1,920.8				\$	1,054.82	\$	2,026.12
	Outpatient Surgery	3,398.9				\$	658.91	\$	2,239.58
	Inpatient Visits	247.8				\$	136.80	\$	33.90
	Preventive Services	129.7				\$	9.50	\$	1.23
	Pathology_PROF	2,334.0				\$	23.29	\$	54.37
	Radiology	2,886.8				\$	107.34	\$	309.88
	Physical Therapy	4,391.5				\$	81.51	\$	357.95
	Cardiovascular	146.5				\$	23.19	\$	3.40
	Durable Medical Equip	443.9				\$	348.91	\$	154.87
	Home Health	86.9				\$	259.61	\$	22.55
	Other Pro/Other	3,459.5				\$	87.47	\$	302.61
	<b>Total Pro/Other</b>							<b>\$</b>	<b>5,968.91</b>
									<b>\$ 1,600.96</b>
Pharmacy	Branded Drugs	855.4	10.2%	33.50	28,656.0	\$	257.75	\$	220.48
	Non-Branded Drugs	7,531.0		18.48	139,191.2	\$	23.56	\$	177.43
	<b>Total Pharmacy</b>	<b>8,386.4</b>		<b>20.01</b>	<b>167,847.2</b>	<b>\$</b>	<b>47.45</b>	<b>\$</b>	<b>397.91</b>
									<b>\$ 370.38</b>
<b>Total</b>								<b>\$</b>	<b>18,127.40</b>
									<b>\$ 3,787.64</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Joint Degeneration, localized - back - with Complication and Surgery (Episode Included: 3,638 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	466.7	29.1	2.41	1,124.8	\$	23,880.12	\$	9,909.20
	Other Inpatient	2.5		8.89	22.0	\$	8,433.23	\$	948.74
	<b>Total Inpatient</b>	<b>469.2</b>		<b>2.44</b>	<b>1,146.8</b>	\$	<b>23,798.67</b>	\$	<b>9,737.38</b>
								\$	<b>11,145.80</b>
Outpatient	Avoidable_ER	61.6	26.8			\$	496.97	\$	30.60
	Advanced Imaging	1,042.9	378.0			\$	937.35	\$	977.55
	ER - Urgent	73.9				\$	520.30	\$	38.47
	OP Surgery	1,091.0				\$	2,434.06	\$	2,655.52
	Radiology - General	510.7				\$	482.51	\$	246.43
	Pathology_FOP	335.6				\$	301.77	\$	101.28
	Therapies	948.0				\$	219.96	\$	208.53
	Other Outpatient	1,052.5				\$	921.40	\$	969.78
	<b>Total Outpatient</b>							\$	<b>5,228.16</b>
								\$	<b>1,317.41</b>
Professional/Other	Office Visits	4,532.2	2,389.2			\$	89.11	\$	403.88
	ER Visits	140.2				\$	212.15	\$	29.74
	Consults	784.5				\$	202.36	\$	158.75
	Inpatient Surgery	2,948.3				\$	1,016.23	\$	2,996.17
	Outpatient Surgery	4,158.1				\$	553.96	\$	2,303.41
	Inpatient Visits	395.5				\$	134.51	\$	53.21
	Preventive Services	180.6				\$	8.83	\$	1.59
	Pathology_PROF	3,131.9				\$	21.97	\$	68.82
	Radiology	3,677.6				\$	103.48	\$	380.55
	Physical Therapy	4,461.2				\$	83.20	\$	371.17
	Cardiovascular	167.1				\$	23.50	\$	3.93
	Durable Medical Equip	579.2				\$	412.31	\$	238.80
	Home Health	150.9				\$	246.25	\$	37.16
	Other Pro/Other	4,066.8				\$	102.04	\$	414.99
	<b>Total Pro/Other</b>							\$	<b>7,462.17</b>
								\$	<b>1,727.38</b>
Pharmacy	Branded Drugs	1,396.9	13.3%	34.08	47,613.8	\$	269.86	\$	376.97
	Non-Branded Drugs	9,104.7		20.74	188,868.1	\$	28.40	\$	258.55
	<b>Total Pharmacy</b>	<b>10,501.6</b>		<b>22.52</b>	<b>236,481.9</b>	\$	<b>60.52</b>	\$	<b>635.52</b>
<b>Total</b>								\$	<b>24,492.52</b>
								\$	<b>4,270.30</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Pregnancy with Delivery - All (Episode Included: 44,068 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	1.0	1.0	2.31	2.2	\$	8,669.17	\$	3,753.66
	Other Inpatient	992.0		2.79	2,764.9	\$	6,881.46	\$	2,469.03
	<b>Total Inpatient</b>	<b>993.0</b>		<b>2.79</b>	<b>2,767.1</b>	\$	<b>6,883.17</b>	\$	<b>2,470.05</b>
Outpatient	Avoidable_ER	2.6	2.6			\$	473.39	\$	1.24
	Advanced Imaging	6.0	6.0			\$	1,632.54	\$	9.82
	ER - Urgent	221.4				\$	507.18	\$	112.27
	OP Surgery	37.0				\$	1,424.18	\$	52.71
	Radiology - General	757.2				\$	431.79	\$	326.94
	Pathology_FOP	1,219.6				\$	252.40	\$	307.84
	Therapies	5.3				\$	247.18	\$	1.32
	Other Outpatient	1,874.8				\$	691.52	\$	1,296.48
	<b>Total Outpatient</b>							\$	<b>2,108.60</b>
								\$	<b>2,108.26</b>
Professional/Other	Office Visits	1,664.4	1,664.4			\$	86.98	\$	144.78
	ER Visits	247.9				\$	202.59	\$	50.23
	Consults	302.7				\$	156.04	\$	47.23
	Inpatient Surgery	247.3				\$	230.64	\$	57.04
	Outpatient Surgery	31.6				\$	211.27	\$	6.67
	Inpatient Visits	410.0				\$	142.29	\$	58.33
	Preventive Services	5,970.8				\$	16.62	\$	99.25
	Pathology_PROF	14,286.7				\$	28.64	\$	409.17
	Radiology	5,473.3				\$	139.72	\$	764.76
	Physical Therapy	16.3				\$	81.38	\$	1.33
	Cardiovascular	130.5				\$	86.48	\$	11.28
	Durable Medical Equip	63.7				\$	105.43	\$	6.72
	Home Health	61.4				\$	363.05	\$	22.28
	Other Pro/Other	3,619.9				\$	963.27	\$	3,486.95
	<b>Total Pro/Other</b>							\$	<b>5,166.03</b>
								\$	<b>5,166.37</b>
Pharmacy	Branded Drugs	1,661.5	49.5%	33.96	56,422.9	\$	67.04	\$	111.39
	Non-Branded Drugs	1,696.0		21.10	35,780.4	\$	26.36	\$	44.70
	<b>Total Pharmacy</b>	<b>3,357.5</b>		<b>27.46</b>	<b>92,203.3</b>	\$	<b>46.49</b>	\$	<b>156.09</b>
<b>Total</b>								\$	<b>14,265.63</b>
								\$	<b>14,265.63</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Pregnancy with Delivery - No Complication and No Surgery (Episode Included: 9,913 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	0.7	1.0	2.71	1.9	\$	7,137.51	\$	5.04
	Other Inpatient	904.0		2.07	1,868.4	\$	5,379.90	\$	4,863.24
	<b>Total Inpatient</b>	<b>904.7</b>		<b>2.07</b>	<b>1,870.3</b>	\$	<b>5,381.27</b>	\$	<b>4,868.28</b>
Outpatient	Avoidable_ER	2.2	2.5			\$	495.31	\$	1.10
	Advanced Imaging	3.8	5.3			\$	1,826.83	\$	7.00
	ER - Urgent	78.7				\$	504.81	\$	39.72
	OP Surgery	26.2				\$	1,560.52	\$	40.93
	Radiology - General	480.6				\$	431.15	\$	207.20
	Pathology_FOP	845.8				\$	240.42	\$	203.34
	Therapies	4.2				\$	264.62	\$	1.12
	Other Outpatient	1,015.1				\$	658.55	\$	668.52
	<b>Total Outpatient</b>							\$	<b>1,168.93</b>
								\$	<b>1,802.65</b>
Professional/Other	Office Visits	934.8	1,520.7			\$	92.58	\$	86.54
	ER Visits	69.3				\$	206.81	\$	14.33
	Consults	98.5				\$	153.62	\$	15.12
	Inpatient Surgery	97.1				\$	347.75	\$	33.78
	Outpatient Surgery	18.5				\$	204.55	\$	3.78
	Inpatient Visits	113.2				\$	231.72	\$	26.23
	Preventive Services	5,295.6				\$	16.98	\$	89.90
	Pathology_PROF	10,577.9				\$	27.32	\$	288.97
	Radiology	3,163.2				\$	145.10	\$	458.99
	Physical Therapy	17.6				\$	81.13	\$	1.42
	Cardiovascular	64.4				\$	90.07	\$	5.80
	Durable Medical Equip	38.1				\$	132.07	\$	5.04
	Home Health	23.6				\$	316.05	\$	7.46
	Other Pro/Other	2,368.1				\$	1,239.77	\$	2,935.90
	<b>Total Pro/Other</b>							\$	<b>3,973.26</b>
Pharmacy	Branded Drugs	1,300.9	51.5%	34.10	44,363.6	\$	60.78	\$	79.08
	Non-Branded Drugs	1,225.1		21.60	26,467.2	\$	25.63	\$	31.40
	<b>Total Pharmacy</b>	<b>2,526.0</b>		<b>28.04</b>	<b>70,830.7</b>	\$	<b>43.74</b>	\$	<b>110.48</b>
<b>Total</b>								\$	<b>10,120.95</b>
								\$	<b>12,823.68</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.



Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Pregnancy with Delivery - with Complication Only (Episode Included: 19,178 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	1.2	1.0	1.96	2.3	\$	8,395.38	\$	4,290.97
	Other Inpatient	997.8		2.47	2,468.7	\$	5,777.24	\$	2,335.11
	<b>Total Inpatient</b>	<b>999.0</b>		<b>2.47</b>	<b>2,471.0</b>	\$	<b>5,780.38</b>	\$	<b>2,336.96</b>
Outpatient	Avoidable_ER	3.4	2.6			\$	476.13	\$	1.64
	Advanced Imaging	6.7	5.9			\$	1,552.09	\$	10.44
	ER - Urgent	279.9				\$	508.90	\$	142.42
	OP Surgery	39.2				\$	1,407.34	\$	55.11
	Radiology - General	791.3				\$	430.24	\$	340.46
	Pathology_FOP	1,339.6				\$	252.35	\$	338.05
	Therapies	6.6				\$	236.48	\$	1.55
	Other Outpatient	2,122.2				\$	713.91	\$	1,515.08
	<b>Total Outpatient</b>							\$	<b>2,404.74</b>
								\$	<b>2,142.47</b>
Professional/Other	Office Visits	1,779.5	1,637.3			\$	86.85	\$	154.56
	ER Visits	316.6				\$	201.52	\$	63.80
	Consults	330.8				\$	155.16	\$	51.33
	Inpatient Surgery	109.3				\$	353.70	\$	38.66
	Outpatient Surgery	36.8				\$	222.66	\$	8.20
	Inpatient Visits	354.2				\$	139.07	\$	49.25
	Preventive Services	5,946.4				\$	16.64	\$	98.97
	Pathology_PROF	14,326.2				\$	28.67	\$	410.77
	Radiology	5,521.4				\$	140.05	\$	773.29
	Physical Therapy	18.3				\$	82.75	\$	1.51
	Cardiovascular	137.2				\$	86.82	\$	11.92
	Durable Medical Equip	65.1				\$	105.96	\$	6.90
	Home Health	65.0				\$	403.13	\$	26.19
	Other Pro/Other	3,355.4				\$	980.49	\$	3,289.89
	<b>Total Pro/Other</b>							\$	<b>4,985.24</b>
								\$	<b>5,176.41</b>
Pharmacy	Branded Drugs	1,626.1	50.7%	33.86	55,063.2	\$	65.86	\$	107.10
	Non-Branded Drugs	1,579.0		21.95	34,666.8	\$	28.90	\$	45.63
	<b>Total Pharmacy</b>	<b>3,205.2</b>		<b>28.00</b>	<b>89,730.0</b>	\$	<b>47.65</b>	\$	<b>152.73</b>
<b>Total</b>								\$	<b>13,317.37</b>
								\$	<b>14,267.60</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Pregnancy with Delivery - with Surgery Only (Episode Included: 2,362 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	1.7	1.0	1.50	2.5	\$	9,166.09	\$	15.52
	Other Inpatient	986.5		2.82	2,783.7	\$	8,353.90	\$	8,240.72
	<b>Total Inpatient</b>	<b>988.1</b>		<b>2.82</b>	<b>2,786.2</b>	<b>\$</b>	<b>8,355.29</b>	<b>\$</b>	<b>8,256.25</b>
									<b>\$ 7,090.41</b>
Outpatient	Avoidable_ER	1.3	2.6			\$	470.00	\$	0.60
	Advanced Imaging	4.2	6.0			\$	1,519.76	\$	6.43
	ER - Urgent	92.7				\$	499.76	\$	46.34
	OP Surgery	21.2				\$	1,513.25	\$	32.03
	Radiology - General	550.8				\$	429.98	\$	236.84
	Pathology_FOP	914.1				\$	253.60	\$	231.81
	Therapies	1.7				\$	309.83	\$	0.52
	Other Outpatient	1,146.5				\$	639.44	\$	733.11
	<b>Total Outpatient</b>							<b>\$</b>	<b>1,287.68</b>
									<b>\$ 2,026.34</b>
Professional/Other	Office Visits	992.4	1,641.8			\$	88.25	\$	87.57
	ER Visits	86.4				\$	202.60	\$	17.50
	Consults	134.6				\$	151.54	\$	20.40
	Inpatient Surgery	532.2				\$	168.28	\$	89.56
	Outpatient Surgery	22.4				\$	149.10	\$	3.35
	Inpatient Visits	268.0				\$	116.48	\$	31.21
	Preventive Services	5,876.8				\$	16.51	\$	97.05
	Pathology_PROF	12,621.9				\$	27.59	\$	348.22
	Radiology	3,931.8				\$	144.86	\$	569.55
	Physical Therapy	14.0				\$	90.18	\$	1.26
	Cardiovascular	78.7				\$	100.57	\$	7.92
	Durable Medical Equip	39.4				\$	89.14	\$	3.51
	Home Health	20.7				\$	298.01	\$	6.18
	Other Pro/Other	3,647.3				\$	1,061.31	\$	3,870.95
	<b>Total Pro/Other</b>							<b>\$</b>	<b>5,154.23</b>
									<b>\$ 5,285.71</b>
Pharmacy	Branded Drugs	1,534.7	45.1%	33.80	51,870.9	\$	72.61	\$	111.43
	Non-Branded Drugs	1,867.9		17.60	32,876.4	\$	24.16	\$	45.13
	<b>Total Pharmacy</b>	<b>3,402.6</b>		<b>24.91</b>	<b>84,747.2</b>	<b>\$</b>	<b>46.01</b>	<b>\$</b>	<b>156.57</b>
<b>Total</b>								<b>\$</b>	<b>14,854.73</b>
									<b>\$ 14,551.74</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.

Appendix C  
ACO Episode Risk-Adjustment Study  
Costs and Utilization by Base\_ETG and Type of Service - Some Claims are Excluded \*  
Entire 3 Million Population

Base ETG		Pregnancy with Delivery - with Complication and Surgery (Episode Included: 12,615 )				Normalized Allowed Cost per Unit within Episode		Cost Per Episode	
Service Type		Utilization per Thousand Episodes				Unit		Cost Normalized	
		Raw Units	Risk Adj	Days/Unit	Days		per Day		Risk Adj
Inpatient	Med/Surg Admissions	0.6	1.0	3.38	2.1	\$	10,548.07	\$	6.69
	Other Inpatient	1,053.5		3.72	3,916.3	\$	9,225.70	\$	9,719.34
	<b>Total Inpatient</b>	<b>1,054.1</b>		<b>3.72</b>	<b>3,918.4</b>	\$	<b>9,226.49</b>	\$	<b>9,726.03</b>
Outpatient	Avoidable_ER	1.9	2.7			\$	446.17	\$	0.85
	Advanced Imaging	7.0	6.8			\$	1,679.38	\$	11.72
	ER - Urgent	268.6				\$	505.50	\$	135.80
	OP Surgery	45.2				\$	1,376.37	\$	62.19
	Radiology - General	961.2				\$	434.16	\$	417.33
	Pathology_FOP	1,388.3				\$	258.06	\$	358.26
	Therapies	5.0				\$	252.98	\$	1.26
	Other Outpatient	2,310.7				\$	676.47	\$	1,563.10
	<b>Total Outpatient</b>							\$	<b>2,550.51</b>
								\$	<b>2,311.75</b>
Professional/Other	Office Visits	2,188.5	1,822.7			\$	85.16	\$	186.37
	ER Visits	314.1				\$	203.49	\$	63.93
	Consults	451.9				\$	157.68	\$	71.26
	Inpatient Surgery	521.8				\$	186.23	\$	97.18
	Outpatient Surgery	35.6				\$	203.45	\$	7.24
	Inpatient Visits	754.7				\$	135.76	\$	102.45
	Preventive Services	6,556.2				\$	16.39	\$	107.45
	Pathology_PROF	17,452.9				\$	29.37	\$	512.59
	Radiology	7,504.2				\$	137.07	\$	1,028.63
	Physical Therapy	12.7				\$	76.84	\$	0.97
	Cardiovascular	181.8				\$	83.94	\$	15.26
	Durable Medical Equip	86.4				\$	96.96	\$	8.38
	Home Health	93.2				\$	332.64	\$	31.01
	Other Pro/Other	5,000.7				\$	829.41	\$	4,147.65
	<b>Total Pro/Other</b>							\$	<b>6,380.37</b>
Pharmacy	Branded Drugs	2,022.3	47.8%	34.03	68,818.8	\$	70.86	\$	143.29
	Non-Branded Drugs	2,211.8		20.50	45,335.6	\$	24.26	\$	53.66
	<b>Total Pharmacy</b>	<b>4,234.1</b>		<b>26.96</b>	<b>114,154.3</b>	\$	<b>46.52</b>	\$	<b>196.95</b>
<b>Total</b>								\$	<b>18,853.86</b>
								\$	<b>15,342.17</b>

\* Exclude the following claims types: incomplete episodes, claims with no episode assignment, ungroupable ETG, and episodes with costs within the top and bottom 1%.