

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Asthma - All (Episode Included: 236,976 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	39	0	0	0	0	0
Outpatient	Cost per Episode	144	0	0	0	307	838
Professional/Other	Cost per Episode	226	19	110	251	553	866
Pharmacy	Cost per Episode	501	10	153	646	1,499	2,148
Total	Cost per Episode	911	142	414	1,167	2,284	3,286

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	41	0	0	0	0	0
Outpatient	Cost per Episode	155	0	0	0	395	764
Professional/Other	Cost per Episode	227	27	109	257	561	848
Pharmacy	Cost per Episode	501	10	153	646	1,499	2,148
Total	Cost per Episode	925	144	424	1,172	2,331	3,386

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Asthma - No Complication and No Surgery (Episode Included: 190,065 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	8	0	0	0	0	0
Outpatient	Cost per Episode	108	0	0	0	153	576
Professional/Other	Cost per Episode	189	0	93	207	457	729
Pharmacy	Cost per Episode	484	10	139	620	1,459	2,087
Total	Cost per Episode	789	125	358	1,036	2,025	2,861

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	8	0	0	0	0	0
Outpatient	Cost per Episode	122	0	0	0	198	595
Professional/Other	Cost per Episode	189	0	107	214	464	715
Pharmacy	Cost per Episode	484	10	139	620	1,459	2,087
Total	Cost per Episode	803	124	365	1,046	2,076	2,969

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Asthma - with Complication Only (Episode Included: 46,911 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	168	0	0	0	0	0
Outpatient	Cost per Episode	290	0	0	160	896	1,572
Professional/Other	Cost per Episode	377	102	206	447	877	1,286
Pharmacy	Cost per Episode	570	20	202	754	1,661	2,377
Total	Cost per Episode	1,405	257	719	1,744	3,399	5,012

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	177	0	0	0	0	0
Outpatient	Cost per Episode	289	0	0	233	744	1,486
Professional/Other	Cost per Episode	380	107	221	458	888	1,265
Pharmacy	Cost per Episode	570	20	202	754	1,661	2,377
Total	Cost per Episode	1,416	264	739	1,720	3,483	5,652

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Cerebral Vascular Disease - All (Episode Included: 20,129 )**

<b>Population</b>		<b>Mean</b>	<b>Percentiles - Raw Data</b>				
<b>Service Type</b>	<b>Unit</b>		<b>25th</b>	<b>50th</b>	<b>75th</b>	<b>90th</b>	<b>95th</b>
Inpatient	Cost per Episode	2,886	0	0	0	8,012	15,926
Outpatient	Cost per Episode	1,431	0	0	1,334	4,118	6,801
Professional/Other	Cost per Episode	1,415	143	443	1,439	3,351	5,376
Pharmacy	Cost per Episode	190	0	0	36	674	1,313
<b>Total</b>	<b>Cost per Episode</b>	<b>5,922</b>	<b>320</b>	<b>1,349</b>	<b>5,234</b>	<b>14,343</b>	<b>25,617</b>

  

		<b>Mean</b>	<b>Percentiles - Cost Normalized</b>				
<b>Service Type</b>	<b>Unit</b>		<b>25th</b>	<b>50th</b>	<b>75th</b>	<b>90th</b>	<b>95th</b>
Inpatient	Cost per Episode	2,976	0	0	0	10,813	19,070
Outpatient	Cost per Episode	1,346	0	0	1,466	4,137	6,368
Professional/Other	Cost per Episode	1,467	180	496	1,658	3,523	5,564
Pharmacy	Cost per Episode	190	0	0	36	674	1,313
<b>Total</b>	<b>Cost per Episode</b>	<b>5,979</b>	<b>321</b>	<b>1,398</b>	<b>5,224</b>	<b>18,204</b>	<b>28,522</b>

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Cerebral Vascular Disease - No Complication and No Surgery (Episode Included: 17,260 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1,434	0	0	0	4,281	9,346
Outpatient	Cost per Episode	1,138	0	0	1,052	3,455	5,857
Professional/Other	Cost per Episode	950	126	375	1,108	2,316	3,401
Pharmacy	Cost per Episode	190	0	0	39	693	1,329
Total	Cost per Episode	3,712	295	1,083	3,739	9,869	15,140

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1,727	0	0	0	7,708	13,688
Outpatient	Cost per Episode	1,130	0	0	1,202	3,546	5,560
Professional/Other	Cost per Episode	1,017	161	407	1,311	2,581	3,549
Pharmacy	Cost per Episode	190	0	0	39	693	1,329
Total	Cost per Episode	4,064	287	1,132	3,754	11,213	19,387

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Cerebral Vascular Disease - with Complication Only (Episode Included: 2,055)**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	7,540	0	0	5,958	22,900	39,285
Outpatient	Cost per Episode	2,695	0	345	2,873	7,108	11,934
Professional/Other	Cost per Episode	2,810	245	1,134	3,221	6,782	10,094
Pharmacy	Cost per Episode	162	0	0	9	475	1,028
Total	Cost per Episode	13,207	760	4,138	14,048	35,566	57,920

  

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,855	0	0	7,708	25,669	37,218
Outpatient	Cost per Episode	2,222	0	360	2,751	6,347	11,037
Professional/Other	Cost per Episode	2,705	251	1,243	3,429	6,628	10,203
Pharmacy	Cost per Episode	162	0	0	9	475	1,028
Total	Cost per Episode	11,945	707	3,643	17,759	36,249	49,142

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**

**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode: Chronic Obstructive Pulmonary Disease - All (Episode Included: 32,878 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	373	0	0	0	0	0
Outpatient	Cost per Episode	356	0	0	78	950	2,029
Professional/Other	Cost per Episode	483	60	151	435	1,222	2,124
Pharmacy	Cost per Episode	552	4	66	471	1,860	2,930
Total	Cost per Episode	1,764	132	441	1,749	4,486	7,435

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	415	0	0	0	0	0
Outpatient	Cost per Episode	426	0	0	197	1,202	2,530
Professional/Other	Cost per Episode	489	72	166	470	1,294	2,231
Pharmacy	Cost per Episode	552	4	66	471	1,860	2,930
Total	Cost per Episode	1,882	142	473	1,860	4,838	8,542

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**

**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Chronic Obstructive Pulmonary Disease - No Complication and No Surgery (Episode Included: 30,941 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	291	0	0	0	0	0
Outpatient	Cost per Episode	299	0	0	45	797	1,747
Professional/Other	Cost per Episode	431	58	143	395	1,063	1,885
Pharmacy	Cost per Episode	525	4	64	441	1,760	2,793
Total	Cost per Episode	1,546	127	406	1,553	3,984	6,574

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	343	0	0	0	0	0
Outpatient	Cost per Episode	367	0	0	83	942	2,150
Professional/Other	Cost per Episode	437	72	154	429	1,130	1,992
Pharmacy	Cost per Episode	525	4	64	441	1,760	2,793
Total	Cost per Episode	1,673	136	436	1,662	4,300	7,381

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Chronic Obstructive Pulmonary Disease - with Complication Only (Episode Included: 1,573 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	811	0	0	0	0	6,271
Outpatient	Cost per Episode	810	0	0	828	2,426	3,874
Professional/Other	Cost per Episode	938	112	365	1,076	2,528	3,667
Pharmacy	Cost per Episode	992	0	137	1,304	3,343	4,549
Total	Cost per Episode	3,552	335	1,470	4,211	9,425	13,926

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	817	0	0	0	0	7,298
Outpatient	Cost per Episode	952	0	0	894	2,998	4,672
Professional/Other	Cost per Episode	942	140	405	1,111	2,550	3,640
Pharmacy	Cost per Episode	992	0	137	1,304	3,343	4,549
Total	Cost per Episode	3,704	341	1,547	4,561	10,108	16,068

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Congestive Heart Failure - All (Episode Included: 11,126 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1,983	0	0	0	1,403	10,969
Outpatient	Cost per Episode	1,103	0	0	283	1,914	3,810
Professional/Other	Cost per Episode	850	54	262	925	2,275	3,442
Pharmacy	Cost per Episode	200	0	32	209	600	968
Total	Cost per Episode	4,135	182	679	2,244	8,887	19,428

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1,955	0	0	0	0	13,474
Outpatient	Cost per Episode	852	0	0	539	2,114	4,081
Professional/Other	Cost per Episode	872	64	297	978	2,415	3,567
Pharmacy	Cost per Episode	200	0	32	209	600	968
Total	Cost per Episode	3,879	193	730	2,290	10,797	19,284

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode: Congestive Heart Failure - No Complication and No Surgery (Episode Included: 10,576 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1,740	0	0	0	12	9,172
Outpatient	Cost per Episode	1,047	0	0	267	1,826	3,682
Professional/Other	Cost per Episode	789	47	245	853	2,169	3,254
Pharmacy	Cost per Episode	200	0	30	206	603	977
Total	Cost per Episode	3,776	175	653	2,088	7,701	17,346

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1,709	0	0	0	0	11,257
Outpatient	Cost per Episode	808	0	0	531	2,059	3,974
Professional/Other	Cost per Episode	809	52	282	908	2,275	3,327
Pharmacy	Cost per Episode	200	0	30	206	603	977
Total	Cost per Episode	3,526	186	699	2,154	9,077	17,968

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Diabetes - All (Episode Included: 233,263)**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	57	0	0	0	0	0
Outpatient	Cost per Episode	193	0	0	44	482	1,010
Professional/Other	Cost per Episode	523	110	258	518	1,018	1,777
Pharmacy	Cost per Episode	1,357	26	468	2,123	3,952	5,233
Total	Cost per Episode	2,131	351	1,085	2,961	5,485	7,461

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	48	0	0	0	0	0
Outpatient	Cost per Episode	232	0	0	0	596	1,219
Professional/Other	Cost per Episode	521	115	275	538	1,032	1,739
Pharmacy	Cost per Episode	1,357	26	468	2,123	3,952	5,233
Total	Cost per Episode	2,159	371	1,130	3,035	5,604	7,620

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode: Diabetes - No Complication and No Surgery (Episode Included: 228,520 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	34	0	0	0	0	0
Outpatient	Cost per Episode	176	0	0	37	452	937
Professional/Other	Cost per Episode	499	107	253	502	957	1,620
Pharmacy	Cost per Episode	1,346	25	458	2,102	3,928	5,205
Total	Cost per Episode	2,054	344	1,051	2,878	5,300	7,161

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	27	0	0	0	0	0
Outpatient	Cost per Episode	219	0	0	0	595	1,202
Professional/Other	Cost per Episode	498	113	269	522	972	1,585
Pharmacy	Cost per Episode	1,346	25	458	2,102	3,928	5,205
Total	Cost per Episode	2,090	363	1,095	2,950	5,417	7,307

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Diabetes - with Complication Only (Episode Included: 2,074 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	2,348	0	0	3,811	7,786	10,752
Outpatient	Cost per Episode	551	0	0	472	1,572	2,758
Professional/Other	Cost per Episode	1,445	398	857	1,776	3,286	5,027
Pharmacy	Cost per Episode	1,789	115	1,222	2,863	4,405	5,527
Total	Cost per Episode	6,133	1,617	4,628	9,117	13,543	16,417

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	2,342	0	0	6,639	9,186	9,186
Outpatient	Cost per Episode	525	0	0	583	1,529	2,604
Professional/Other	Cost per Episode	1,420	431	945	1,806	3,111	5,012
Pharmacy	Cost per Episode	1,789	115	1,222	2,863	4,405	5,527
Total	Cost per Episode	6,077	1,650	5,023	10,298	12,915	14,041

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Diabetes - with Surgery Only (Episode Included: 2,638 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	290	0	0	0	0	0
Outpatient	Cost per Episode	1,402	0	151	1,688	4,218	6,686
Professional/Other	Cost per Episode	1,845	548	1,161	2,373	4,121	5,771
Pharmacy	Cost per Episode	1,995	83	1,248	3,180	5,178	6,669
Total	Cost per Episode	5,532	2,199	4,403	7,380	10,820	13,225

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	64	0	0	0	0	0
Outpatient	Cost per Episode	1,124	0	141	1,633	3,719	5,090
Professional/Other	Cost per Episode	1,809	607	1,253	2,384	4,041	5,484
Pharmacy	Cost per Episode	1,995	83	1,248	3,180	5,178	6,669
Total	Cost per Episode	4,992	2,088	4,305	7,143	10,431	12,045

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Hyperlipidemia - All (Episode Included: 398,559 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1	0	0	0	0	0
Outpatient	Cost per Episode	39	0	0	0	60	196
Professional/Other	Cost per Episode	118	24	85	160	264	352
Pharmacy	Cost per Episode	326	0	50	461	1,120	1,438
Total	Cost per Episode	483	95	225	677	1,327	1,661

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	0	0	0	0	0	0
Outpatient	Cost per Episode	62	0	0	0	180	328
Professional/Other	Cost per Episode	121	26	93	166	271	355
Pharmacy	Cost per Episode	326	0	50	461	1,120	1,438
Total	Cost per Episode	508	107	248	733	1,368	1,716

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Hyperlipidemia - No Complication and No Surgery (Episode Included: 398,559 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1	0	0	0	0	0
Outpatient	Cost per Episode	39	0	0	0	60	196
Professional/Other	Cost per Episode	118	24	85	160	264	352
Pharmacy	Cost per Episode	326	0	50	461	1,120	1,438
Total	Cost per Episode	483	95	225	677	1,327	1,661

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	0	0	0	0	0	0
Outpatient	Cost per Episode	62	0	0	0	180	328
Professional/Other	Cost per Episode	121	26	93	166	271	355
Pharmacy	Cost per Episode	326	0	50	461	1,120	1,438
Total	Cost per Episode	508	107	248	733	1,368	1,716

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Hypertension - All (Episode Included: 654,739 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6	0	0	0	0	0
Outpatient	Cost per Episode	202	0	0	0	430	1,092
Professional/Other	Cost per Episode	228	41	126	262	518	831
Pharmacy	Cost per Episode	297	8	85	428	912	1,184
Total	Cost per Episode	733	155	385	925	1,657	2,411

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1	0	0	0	0	0
Outpatient	Cost per Episode	179	0	0	0	466	1,062
Professional/Other	Cost per Episode	234	47	136	278	543	865
Pharmacy	Cost per Episode	297	8	85	428	912	1,184
Total	Cost per Episode	712	159	398	943	1,659	2,389

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode: Hypertension - No Complication and No Surgery (Episode Included: 636,126 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	5	0	0	0	0	0
Outpatient	Cost per Episode	197	0	0	0	418	1,063
Professional/Other	Cost per Episode	222	38	123	257	502	802
Pharmacy	Cost per Episode	296	8	84	425	909	1,178
Total	Cost per Episode	720	153	379	912	1,628	2,365

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1	0	0	0	0	0
Outpatient	Cost per Episode	176	0	0	0	459	1,057
Professional/Other	Cost per Episode	227	44	131	269	526	834
Pharmacy	Cost per Episode	296	8	84	425	909	1,178
Total	Cost per Episode	701	157	392	931	1,631	2,347

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Hypertension - with Complication Only (Episode Included: 18,613 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	19	0	0	0	0	0
Outpatient	Cost per Episode	347	0	0	95	936	1,960
Professional/Other	Cost per Episode	436	118	247	515	1,060	1,551
Pharmacy	Cost per Episode	346	0	104	510	1,016	1,370
Total	Cost per Episode	1,148	271	667	1,415	2,585	3,802

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	1	0	0	0	0	0
Outpatient	Cost per Episode	277	0	0	117	771	1,819
Professional/Other	Cost per Episode	459	137	282	572	1,111	1,555
Pharmacy	Cost per Episode	346	0	104	510	1,016	1,370
Total	Cost per Episode	1,083	292	697	1,424	2,530	3,559

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Ischemic Heart Disease - All (Episode Included: 76,647 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	3,443	0	0	0	7,322	25,200
Outpatient	Cost per Episode	2,007	0	0	980	5,906	10,367
Professional/Other	Cost per Episode	1,376	124	506	1,578	3,356	5,259
Pharmacy	Cost per Episode	758	0	191	1,281	2,178	2,832
Total	Cost per Episode	7,584	526	1,871	5,388	20,732	39,119

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	3,448	0	0	0	13,474	28,039
Outpatient	Cost per Episode	1,409	0	0	983	4,065	6,671
Professional/Other	Cost per Episode	1,392	138	563	1,576	3,445	5,335
Pharmacy	Cost per Episode	758	0	191	1,281	2,178	2,832
Total	Cost per Episode	7,007	548	1,853	4,994	20,145	36,525

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Ischemic Heart Disease - No Complication and No Surgery (Episode Included: 67,386 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	657	0	0	0	0	404
Outpatient	Cost per Episode	1,347	0	0	519	4,251	7,625
Professional/Other	Cost per Episode	837	107	373	1,185	2,053	2,832
Pharmacy	Cost per Episode	718	0	145	1,176	2,142	2,800
Total	Cost per Episode	3,559	432	1,552	3,532	8,384	12,811

  

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	684	0	0	0	0	0
Outpatient	Cost per Episode	1,051	0	0	595	3,719	4,864
Professional/Other	Cost per Episode	837	107	410	1,219	2,003	2,666
Pharmacy	Cost per Episode	718	0	145	1,176	2,142	2,800
Total	Cost per Episode	3,290	450	1,545	3,424	7,057	12,304

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Ischemic Heart Disease - with Complication Only (Episode Included: 2,059 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	7,538	0	0	10,360	21,506	33,434
Outpatient	Cost per Episode	1,885	0	0	1,601	5,603	9,302
Professional/Other	Cost per Episode	2,097	436	1,385	2,664	4,437	6,291
Pharmacy	Cost per Episode	687	0	152	1,138	2,098	2,684
Total	Cost per Episode	12,207	1,533	5,530	16,477	29,919	43,935

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	8,559	0	0	17,323	27,979	28,824
Outpatient	Cost per Episode	1,770	0	0	1,457	4,676	7,688
Professional/Other	Cost per Episode	2,209	466	1,520	2,781	4,538	6,529
Pharmacy	Cost per Episode	687	0	152	1,138	2,098	2,684
Total	Cost per Episode	13,225	1,410	4,924	21,425	32,922	42,171

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Ischemic Heart Disease - with Surgery Only (Episode Included: 4,471 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	23,167	0	16,675	34,649	57,019	73,743
Outpatient	Cost per Episode	10,756	189	5,212	16,390	28,546	37,584
Professional/Other	Cost per Episode	5,890	2,896	4,183	7,707	11,779	14,352
Pharmacy	Cost per Episode	1,195	214	1,007	1,833	2,605	3,239
Total	Cost per Episode	41,008	21,793	33,212	50,909	76,565	93,901

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	24,059	0	27,979	42,098	55,957	68,125
Outpatient	Cost per Episode	5,522	387	3,310	8,211	13,624	18,625
Professional/Other	Cost per Episode	6,037	3,240	4,338	7,626	12,473	14,526
Pharmacy	Cost per Episode	1,195	214	1,007	1,833	2,605	3,239
Total	Cost per Episode	36,814	15,437	32,783	55,864	75,217	84,783

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Ischemic Heart Disease - with Complication and Surgery (Episode Included: 2,731 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	36,813	18,530	28,246	43,136	68,923	88,784
Outpatient	Cost per Episode	4,062	0	812	4,046	11,531	19,579
Professional/Other	Cost per Episode	6,748	3,532	4,891	7,976	13,070	16,976
Pharmacy	Cost per Episode	1,071	285	933	1,659	2,282	2,795
Total	Cost per Episode	48,694	27,497	39,459	58,147	84,884	106,572

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	34,054	27,979	28,039	42,098	56,547	68,125
Outpatient	Cost per Episode	3,234	0	883	3,893	8,566	13,149
Professional/Other	Cost per Episode	6,881	3,991	5,224	7,951	13,727	15,782
Pharmacy	Cost per Episode	1,071	285	933	1,659	2,282	2,795
Total	Cost per Episode	45,241	32,978	38,491	54,891	78,273	86,244

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Joint Degeneration, localized - back - All (Episode Included: 193,716 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	381	0	0	0	0	0
Outpatient	Cost per Episode	886	0	0	508	2,309	4,238
Professional/Other	Cost per Episode	1,267	144	494	1,421	3,175	4,915
Pharmacy	Cost per Episode	294	0	10	132	681	1,382
Total	Cost per Episode	2,827	256	920	2,620	6,237	10,907

  

Population		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	418	0	0	0	0	0
Outpatient	Cost per Episode	861	0	0	688	2,600	4,724
Professional/Other	Cost per Episode	1,283	162	599	1,549	3,224	4,889
Pharmacy	Cost per Episode	294	0	10	132	681	1,382
Total	Cost per Episode	2,856	300	1,025	2,840	6,641	11,261

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Joint Degeneration, localized - back - No Complication and No Surgery (Episode Included: 165,962 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	36	0	0	0	0	0
Outpatient	Cost per Episode	522	0	0	216	1,598	2,823
Professional/Other	Cost per Episode	940	123	403	1,140	2,352	3,495
Pharmacy	Cost per Episode	250	0	8	102	566	1,199
Total	Cost per Episode	1,747	219	744	2,041	4,306	6,433

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	39	0	0	0	0	0
Outpatient	Cost per Episode	600	0	0	271	1,854	3,280
Professional/Other	Cost per Episode	964	143	498	1,269	2,446	3,431
Pharmacy	Cost per Episode	250	0	8	102	566	1,199
Total	Cost per Episode	1,852	253	835	2,248	4,542	6,836

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D  
ACO Episode Risk-Adjustment Study  
Average per Episode  
Statistic Percentiles - Raw and Cost Normalized Data

Episode: Joint Degeneration, localized - back - with Complication Only (Episode Included: 19,822 )

Population

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	174	0	0	0	0	0
Outpatient	Cost per Episode	1,354	0	114	1,645	3,859	5,776
Professional/Other	Cost per Episode	1,716	370	1,051	2,225	3,985	5,379
Pharmacy	Cost per Episode	575	0	38	375	1,422	2,642
Total	Cost per Episode	3,819	834	2,261	4,774	8,575	11,965

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	159	0	0	0	0	0
Outpatient	Cost per Episode	1,525	0	230	1,961	4,339	6,642
Professional/Other	Cost per Episode	1,718	450	1,151	2,335	3,926	5,240
Pharmacy	Cost per Episode	575	0	38	375	1,422	2,642
Total	Cost per Episode	3,977	883	2,469	5,160	9,267	12,988

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode:** Joint Degeneration, localized - back - with Surgery Only (Episode Included: 4,294 )

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,695	0	0	6,865	21,802	37,238
Outpatient	Cost per Episode	6,520	935	3,651	8,156	13,965	19,774
Professional/Other	Cost per Episode	6,109	3,351	4,826	7,312	10,953	14,185
Pharmacy	Cost per Episode	398	18	74	289	920	1,813
Total	Cost per Episode	19,722	8,838	13,688	21,863	42,085	58,169

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	7,191	0	0	10,838	21,923	47,630
Outpatient	Cost per Episode	4,374	1,358	3,998	6,036	9,104	11,624
Professional/Other	Cost per Episode	6,165	3,835	5,422	7,503	11,394	13,560
Pharmacy	Cost per Episode	398	18	74	289	920	1,813
Total	Cost per Episode	18,127	8,889	13,224	20,298	40,438	61,346

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D  
ACO Episode Risk-Adjustment Study  
Average per Episode  
Statistic Percentiles - Raw and Cost Normalized Data

Episode: Joint Degeneration, localized - back - with Complication and Surgery (Episode Included: 3,638 )

Population

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	9,811	0	0	11,633	32,121	45,896
Outpatient	Cost per Episode	8,299	900	3,688	9,243	19,492	35,422
Professional/Other	Cost per Episode	8,020	4,150	6,155	9,228	13,244	17,877
Pharmacy	Cost per Episode	636	23	117	517	1,646	2,817
Total	Cost per Episode	26,765	11,974	18,289	32,915	57,478	73,541

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	11,167	0	0	10,838	47,630	47,630
Outpatient	Cost per Episode	5,008	1,288	4,082	7,040	11,012	14,478
Professional/Other	Cost per Episode	7,683	4,674	6,773	9,671	13,535	15,509
Pharmacy	Cost per Episode	636	23	117	517	1,646	2,817
Total	Cost per Episode	24,493	11,788	18,599	29,720	59,963	63,059

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Pregnancy with Delivery - All (Episode Included: 44,068 )**

<b>Population</b>		<b>Mean</b>	<b>Percentiles - Raw Data</b>				
<b>Service Type</b>	<b>Unit</b>		<b>25th</b>	<b>50th</b>	<b>75th</b>	<b>90th</b>	<b>95th</b>
Inpatient	Cost per Episode	6,844	3,739	5,487	7,997	11,777	15,641
Outpatient	Cost per Episode	1,218	0	488	1,566	3,356	4,869
Professional/Other	Cost per Episode	5,212	3,781	4,826	6,247	8,145	9,840
Pharmacy	Cost per Episode	156	0	17	174	418	574
<b>Total</b>	<b>Cost per Episode</b>	<b>13,429</b>	<b>8,940</b>	<b>11,785</b>	<b>15,783</b>	<b>21,500</b>	<b>26,646</b>

  

		<b>Mean</b>	<b>Percentiles - Cost Normalized</b>				
<b>Service Type</b>	<b>Unit</b>		<b>25th</b>	<b>50th</b>	<b>75th</b>	<b>90th</b>	<b>95th</b>
Inpatient	Cost per Episode	6,835	5,238	5,238	8,066	11,213	11,213
Outpatient	Cost per Episode	2,108	0	803	2,767	6,016	8,793
Professional/Other	Cost per Episode	5,166	4,163	4,975	6,090	7,620	8,959
Pharmacy	Cost per Episode	156	0	17	174	418	574
<b>Total</b>	<b>Cost per Episode</b>	<b>14,266</b>	<b>10,480</b>	<b>13,239</b>	<b>17,137</b>	<b>22,067</b>	<b>26,205</b>

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D  
ACO Episode Risk-Adjustment Study  
Average per Episode  
Statistic Percentiles - Raw and Cost Normalized Data

Episode: Pregnancy with Delivery - No Complication and No Surgery (Episode Included: 9,913)

Population

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	4,620	2,752	4,194	5,770	7,801	9,763
Outpatient	Cost per Episode	644	0	123	794	1,920	2,977
Professional/Other	Cost per Episode	3,964	3,011	4,000	5,002	6,298	7,404
Pharmacy	Cost per Episode	110	0	5	100	344	483
Total	Cost per Episode	9,338	6,940	9,022	11,482	14,517	17,445

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	4,868	5,238	5,238	5,238	5,238	6,561
Outpatient	Cost per Episode	1,169	0	328	1,399	3,528	5,338
Professional/Other	Cost per Episode	3,973	3,251	4,275	4,911	5,733	6,542
Pharmacy	Cost per Episode	110	0	5	100	344	483
Total	Cost per Episode	10,121	9,059	10,181	11,870	14,333	16,594

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode: Pregnancy with Delivery - with Complication Only (Episode Included: 19,178 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,015	3,453	4,854	6,783	10,094	13,772
Outpatient	Cost per Episode	1,387	0	649	1,808	3,704	5,279
Professional/Other	Cost per Episode	5,053	3,686	4,712	6,019	7,815	9,471
Pharmacy	Cost per Episode	153	0	17	169	417	568
Total	Cost per Episode	12,607	8,660	11,053	14,558	19,969	24,719

  

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	5,775	5,238	5,238	6,561	7,621	11,816
Outpatient	Cost per Episode	2,404	0	1,078	3,223	6,706	9,676
Professional/Other	Cost per Episode	4,986	4,082	4,854	5,849	7,274	8,507
Pharmacy	Cost per Episode	153	0	17	169	417	568
Total	Cost per Episode	13,317	10,338	12,116	15,327	20,361	24,359

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**  
**Episode: Pregnancy with Delivery - with Surgery Only (Episode Included: 2,362 )**

Population		Mean	Percentiles - Raw Data				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	7,807	5,297	6,940	9,122	12,407	15,100
Outpatient	Cost per Episode	714	0	188	877	2,054	3,046
Professional/Other	Cost per Episode	5,106	4,018	4,762	5,852	7,260	8,369
Pharmacy	Cost per Episode	157	0	18	159	380	535
Total	Cost per Episode	13,784	10,421	12,654	15,659	19,960	23,717

  

		Mean	Percentiles - Cost Normalized				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	8,256	8,066	8,066	8,066	8,066	11,213
Outpatient	Cost per Episode	1,288	0	348	1,535	3,892	5,962
Professional/Other	Cost per Episode	5,154	4,423	4,944	5,645	6,677	7,774
Pharmacy	Cost per Episode	157	0	18	159	380	535
Total	Cost per Episode	14,855	12,998	13,962	16,018	19,133	21,568

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Raw and Cost Normalized Data**

**Episode: Pregnancy with Delivery - with Complication and Surgery (Episode Included: 12,615 )**

**Population**

Service Type	Unit	Mean	Percentiles - Raw Data				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	9,671	5,707	7,762	10,544	15,641	20,936
Outpatient	Cost per Episode	1,506	23	715	2,003	4,022	5,756
Professional/Other	Cost per Episode	6,453	4,680	5,806	7,402	9,661	11,557
Pharmacy	Cost per Episode	197	0	38	240	478	673
Total	Cost per Episode	17,827	12,314	15,329	20,108	26,943	32,938

Service Type	Unit	Mean	Percentiles - Cost Normalized				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	9,726	8,066	8,066	11,213	11,213	15,325
Outpatient	Cost per Episode	2,550	65	1,202	3,526	7,096	9,841
Professional/Other	Cost per Episode	6,381	5,065	5,944	7,213	8,990	10,483
Pharmacy	Cost per Episode	197	0	38	240	478	673
Total	Cost per Episode	18,854	14,881	17,519	21,411	26,755	30,505

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.







**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**  
**Episode: Cerebral Vascular Disease - All (Episode Included: 20,129 )**

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	2,976	843	2,508	4,296	6,638	8,329
Outpatient	Cost per Episode	1,346	802	1,112	1,650	2,491	3,064
Professional/Other	Cost per Episode	1,467	801	1,221	1,787	2,843	3,575
Pharmacy	Cost per Episode	190					
Total	Cost per Episode	5,979	2,484	5,069	7,744	12,001	14,780

  

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
Service Type	Unit		20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	2,976	758	2,598	4,223	6,704	8,788
Outpatient	Cost per Episode	1,346	864	1,094	1,570	2,398	3,171
Professional/Other	Cost per Episode	1,467	776	1,197	1,784	2,829	3,719
Pharmacy	Cost per Episode	190					
Total	Cost per Episode	5,979	2,531	5,112	7,822	12,172	15,906

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Cerebral Vascular Disease - No Complication and No Surgery (Episode Included: 17,260 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	2,531	457	2,301	3,571	5,562	7,057
Outpatient	Cost per Episode	1,213	728	1,004	1,465	2,109	2,615
Professional/Other	Cost per Episode	1,283	683	1,103	1,587	2,294	2,869
Pharmacy	Cost per Episode	192					
Total	Cost per Episode	5,219	2,283	4,720	6,749	10,154	12,618

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	2,531	575	2,328	3,574	5,648	7,480
Outpatient	Cost per Episode	1,213	847	1,046	1,367	2,032	2,697
Professional/Other	Cost per Episode	1,283	716	1,143	1,571	2,301	3,049
Pharmacy	Cost per Episode	192					
Total	Cost per Episode	5,219	2,271	4,724	6,751	10,246	13,485

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Cerebral Vascular Disease - with Complication Only (Episode Included: 2,055)

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,238	4,569	5,633	7,995	10,226	11,915
Outpatient	Cost per Episode	2,336	1,567	2,041	2,864	3,862	4,489
Professional/Other	Cost per Episode	2,787	1,764	2,709	3,557	4,585	5,303
Pharmacy	Cost per Episode	175					
Total	Cost per Episode	11,536	8,470	10,485	14,425	18,787	21,644

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	6,238	4,372	5,627	7,934	10,450	12,009
Outpatient	Cost per Episode	2,336	1,730	2,038	2,815	3,862	4,463
Professional/Other	Cost per Episode	2,787	1,938	2,699	3,441	4,472	5,289
Pharmacy	Cost per Episode	175					
Total	Cost per Episode	11,536	8,192	10,545	14,392	18,990	21,949

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Chronic Obstructive Pulmonary Disease - All (Episode Included: 32,878 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	415					
Outpatient	Cost per Episode	426					
Professional/Other	Cost per Episode	489	260	409	565	803	1,376
Pharmacy	Cost per Episode	552					
Total	Cost per Episode	1,882	939	1,566	2,094	3,358	5,136

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	415					
Outpatient	Cost per Episode	426					
Professional/Other	Cost per Episode	489	253	424	546	877	1,338
Pharmacy	Cost per Episode	552					
Total	Cost per Episode	1,882	958	1,554	2,115	3,628	5,301

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Chronic Obstructive Pulmonary Disease - No Complication and No Surgery (Episode Included: 30,941 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	394					
Outpatient	Cost per Episode	416					
Professional/Other	Cost per Episode	477	246	409	551	777	1,317
Pharmacy	Cost per Episode	544					
Total	Cost per Episode	1,832	892	1,523	2,040	3,193	4,988

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	394					
Outpatient	Cost per Episode	416					
Professional/Other	Cost per Episode	477	245	423	534	828	1,282
Pharmacy	Cost per Episode	544					
Total	Cost per Episode	1,832	921	1,534	2,055	3,448	5,090

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Chronic Obstructive Pulmonary Disease - with Complication Only (Episode Included: 1,573 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	673					
Outpatient	Cost per Episode	548					
Professional/Other	Cost per Episode	647	409	498	724	1,426	1,655
Pharmacy	Cost per Episode	649					
Total	Cost per Episode	2,517	1,464	1,829	2,990	5,308	6,396

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	673					
Outpatient	Cost per Episode	548					
Professional/Other	Cost per Episode	647	413	495	704	1,434	1,682
Pharmacy	Cost per Episode	649					
Total	Cost per Episode	2,517	1,468	1,840	3,021	5,483	6,614

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.





**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**  
**Episode: Diabetes - All (Episode Included: 233,263 )**

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	48					
Outpatient	Cost per Episode	232	139	207	289	393	475
Professional/Other	Cost per Episode	521	244	321	610	1,210	1,457
Pharmacy	Cost per Episode	1,357	842	1,131	1,588	2,434	2,737
Total	Cost per Episode	2,159	1,375	1,595	2,564	3,912	4,805

  

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
Service Type	Unit		20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	48					
Outpatient	Cost per Episode	232	166	206	295	334	447
Professional/Other	Cost per Episode	521	270	293	604	1,207	1,538
Pharmacy	Cost per Episode	1,357	935	1,082	1,608	2,429	2,774
Total	Cost per Episode	2,159	1,375	1,598	2,594	4,039	4,964

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Diabetes - No Complication and No Surgery (Episode Included: 228,520 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	44					
Outpatient	Cost per Episode	228	138	205	285	383	460
Professional/Other	Cost per Episode	509	243	317	590	1,172	1,424
Pharmacy	Cost per Episode	1,343	842	1,131	1,568	2,382	2,719
Total	Cost per Episode	2,124	1,371	1,585	2,508	3,818	4,709

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	44					
Outpatient	Cost per Episode	228	166	202	283	322	431
Professional/Other	Cost per Episode	509	270	291	583	1,180	1,496
Pharmacy	Cost per Episode	1,343	930	1,077	1,598	2,392	2,735
Total	Cost per Episode	2,124	1,371	1,587	2,529	3,956	4,845

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**  
**Episode: Diabetes - with Complication Only (Episode Included: 2,074 )**

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	462					
Outpatient	Cost per Episode	455	330	424	547	700	769
Professional/Other	Cost per Episode	1,345	757	1,377	1,788	2,320	2,492
Pharmacy	Cost per Episode	2,191	1,406	2,536	2,737	3,353	3,427
Total	Cost per Episode	4,453	2,941	4,616	5,453	7,099	7,558

  

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
Service Type	Unit		20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	462					
Outpatient	Cost per Episode	455	327	439	517	675	743
Professional/Other	Cost per Episode	1,345	759	1,328	1,770	2,307	2,487
Pharmacy	Cost per Episode	2,191	1,465	2,369	2,668	3,350	3,442
Total	Cost per Episode	4,453	2,942	4,438	5,455	7,038	7,556

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**  
**Episode: Diabetes - with Surgery Only (Episode Included: 2,638 )**

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	87					
Outpatient	Cost per Episode	400	236	364	536	682	785
Professional/Other	Cost per Episode	910	449	726	1,344	1,686	1,929
Pharmacy	Cost per Episode	1,884	1,345	1,687	2,697	2,991	3,125
Total	Cost per Episode	3,281	2,148	2,966	4,542	5,380	5,727

  

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
Service Type	Unit		20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	87					
Outpatient	Cost per Episode	400	247	441	423	623	737
Professional/Other	Cost per Episode	910	452	764	1,394	1,650	1,984
Pharmacy	Cost per Episode	1,884	1,370	1,653	2,660	2,934	3,005
Total	Cost per Episode	3,281	2,100	2,975	4,539	5,380	5,941

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.











**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**  
**Episode: Ischemic Heart Disease - All (Episode Included: 76,647)**

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	3,448	625	1,585	4,289	8,757	16,064
Outpatient	Cost per Episode	1,409	913	1,357	1,854	2,596	2,981
Professional/Other	Cost per Episode	1,392	641	1,074	1,844	3,049	3,727
Pharmacy	Cost per Episode	758					
Total	Cost per Episode	7,007	2,953	4,872	8,631	15,429	22,419

  

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
Service Type	Unit		20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	3,448	644	1,554	4,132	10,214	15,960
Outpatient	Cost per Episode	1,409	965	1,501	1,935	2,248	2,157
Professional/Other	Cost per Episode	1,392	685	1,065	1,845	3,027	3,892
Pharmacy	Cost per Episode	758					
Total	Cost per Episode	7,007	2,960	4,880	8,669	16,363	23,001

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Ischemic Heart Disease - No Complication and No Surgery (Episode Included: 67,386)

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	2,520	501	1,343	3,042	5,703	8,340
Outpatient	Cost per Episode	1,349	791	1,285	1,779	2,513	2,915
Professional/Other	Cost per Episode	1,198	591	988	1,614	2,273	3,000
Pharmacy	Cost per Episode	741					
Total	Cost per Episode	5,807	2,775	4,395	7,485	10,850	14,872

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	2,520	577	1,334	3,324	5,741	10,558
Outpatient	Cost per Episode	1,349	930	1,373	1,828	2,388	2,522
Professional/Other	Cost per Episode	1,198	635	965	1,595	2,309	3,189
Pharmacy	Cost per Episode	741					
Total	Cost per Episode	5,807	2,778	4,388	7,484	11,243	17,167

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**

**ACO Episode Risk-Adjustment Study**

**Average per Episode**

**Statistic Percentiles - Cost Normalized Risk Adjusted Data**

**Episode:** Ischemic Heart Disease - with Complication Only (Episode Included: 2,059 )

**Population**

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	12,603	5,720	15,094	16,656	18,758	20,720
Outpatient	Cost per Episode	1,681	1,093	1,530	2,189	2,901	3,336
Professional/Other	Cost per Episode	3,160	2,189	3,301	3,847	4,529	5,027
Pharmacy	Cost per Episode	870					
Total	Cost per Episode	18,314	10,319	20,414	23,424	26,893	29,754

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	12,603	5,737	15,104	16,635	18,788	21,344
Outpatient	Cost per Episode	1,681	1,689	1,141	1,945	2,717	3,034
Professional/Other	Cost per Episode	3,160	2,171	3,274	3,866	4,545	5,159
Pharmacy	Cost per Episode	870					
Total	Cost per Episode	18,314	10,343	20,414	23,451	27,123	30,636

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Ischemic Heart Disease - with Surgery Only (Episode Included: 4,471 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	5,023	1,803	4,716	6,441	9,507	12,949
Outpatient	Cost per Episode	1,894	1,363	1,735	2,410	2,964	3,378
Professional/Other	Cost per Episode	2,000	1,295	1,907	2,493	3,288	3,817
Pharmacy	Cost per Episode	807					
Total	Cost per Episode	9,724	5,622	9,013	12,105	16,459	20,388

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	5,023	1,902	4,576	6,417	9,910	13,913
Outpatient	Cost per Episode	1,894	1,638	1,773	2,393	2,745	2,744
Professional/Other	Cost per Episode	2,000	1,285	1,901	2,476	3,319	3,983
Pharmacy	Cost per Episode	807					
Total	Cost per Episode	9,724	5,646	9,023	12,134	16,849	21,593

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**

**Episode:** Ischemic Heart Disease - with Complication and Surgery (Episode Included: 2,731 )

**Population**

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	16,852	15,599	16,506	18,513	20,024	21,593
Outpatient	Cost per Episode	1,902	1,342	1,780	2,410	2,993	3,346
Professional/Other	Cost per Episode	3,868	3,401	3,740	4,272	4,791	5,166
Pharmacy	Cost per Episode	1,019					
Total	Cost per Episode	23,641	21,186	23,081	26,208	28,838	30,863

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	16,852	15,535	16,522	18,413	20,122	22,200
Outpatient	Cost per Episode	1,902	1,268	1,748	2,464	2,949	3,119
Professional/Other	Cost per Episode	3,868	3,400	3,758	4,279	4,770	5,322
Pharmacy	Cost per Episode	1,019					
Total	Cost per Episode	23,641	21,179	23,091	26,185	28,949	31,786

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Joint Degeneration, localized - back - All (Episode Included: 193,716 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	418					
Outpatient	Cost per Episode	861	714	798	1,080	1,501	1,913
Professional/Other	Cost per Episode	1,283					
Pharmacy	Cost per Episode	294					
Total	Cost per Episode	2,856	2,249	2,632	3,743	4,739	5,495

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	418					
Outpatient	Cost per Episode	861	672	806	1,157	1,505	1,844
Professional/Other	Cost per Episode	1,283					
Pharmacy	Cost per Episode	294					
Total	Cost per Episode	2,856	2,216	2,631	3,739	4,764	5,796

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Joint Degeneration, localized - back - No Complication and No Surgery (Episode Included: 165,962 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	387					
Outpatient	Cost per Episode	810	445	788	1,049	1,418	1,822
Professional/Other	Cost per Episode	1,234					
Pharmacy	Cost per Episode	276					
Total	Cost per Episode	2,708	2,070	2,572	3,616	4,478	5,247

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	387					
Outpatient	Cost per Episode	810	527	789	1,112	1,427	1,758
Professional/Other	Cost per Episode	1,234					
Pharmacy	Cost per Episode	276					
Total	Cost per Episode	2,708	1,943	2,573	3,585	4,540	5,541

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Joint Degeneration, localized - back - with Complication Only (Episode Included: 19,822 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	570					
Outpatient	Cost per Episode	1,131	782	996	1,280	1,812	2,150
Professional/Other	Cost per Episode	1,538					
Pharmacy	Cost per Episode	392					
Total	Cost per Episode	3,631	2,564	3,340	4,258	5,471	6,272

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	570					
Outpatient	Cost per Episode	1,131	790	1,037	1,312	1,777	2,040
Professional/Other	Cost per Episode	1,538					
Pharmacy	Cost per Episode	392					
Total	Cost per Episode	3,631	2,565	3,325	4,273	5,528	6,533

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**

**Episode:** Joint Degeneration, localized - back - with Surgery Only (Episode Included: 4,294 )

**Population**

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	635					
Outpatient	Cost per Episode	1,181	797	1,043	1,374	1,995	2,206
Professional/Other	Cost per Episode	1,601					
Pharmacy	Cost per Episode	370					
Total	Cost per Episode	3,788	2,637	3,643	4,525	5,709	6,437

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	635					
Outpatient	Cost per Episode	1,181	802	1,088	1,385	1,842	2,062
Professional/Other	Cost per Episode	1,601					
Pharmacy	Cost per Episode	370					
Total	Cost per Episode	3,788	2,632	3,631	4,521	5,729	6,755

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Joint Degeneration, localized - back - with Complication and Surgery (Episode Included: 3,638 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service			
					90th	95th
Inpatient	Cost per Episode	779				
Outpatient	Cost per Episode	1,317	923	1,150	1,581	2,128
Professional/Other	Cost per Episode	1,727				
Pharmacy	Cost per Episode	447				
Total	Cost per Episode	4,270	2,945	3,962	5,177	6,423

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	779					
Outpatient	Cost per Episode	1,317	932	1,210	1,696	1,971	2,260
Professional/Other	Cost per Episode	1,727					
Pharmacy	Cost per Episode	447					
Total	Cost per Episode	4,270	2,971	3,961	5,188	6,458	7,366

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**  
**Episode: Pregnancy with Delivery - All (Episode Included: 44,068 )**

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
Service Type	Unit		25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,835	6,287	6,542	7,308	8,346	8,897
Outpatient	Cost per Episode	2,108	1,449	1,965	2,578	3,222	3,669
Professional/Other	Cost per Episode	5,166	4,710	5,132	5,609	6,126	6,467
Pharmacy	Cost per Episode	156	112	131	159	287	345
Total	Cost per Episode	14,266	12,705	13,907	15,598	17,477	18,680

  

Population		Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
Service Type	Unit		20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	6,835	6,287	6,592	7,376	8,236	8,907
Outpatient	Cost per Episode	2,108	1,499	2,036	2,478	3,026	3,505
Professional/Other	Cost per Episode	5,166	4,802	5,133	5,580	6,052	6,470
Pharmacy	Cost per Episode	156	118	139	183	219	273
Total	Cost per Episode	14,266	12,707	13,900	15,617	17,533	19,156

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Pregnancy with Delivery - No Complication and No Surgery (Episode Included: 9,913)

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,194	5,889	6,331	6,567	7,090	7,475
Outpatient	Cost per Episode	1,803	1,335	1,664	2,189	2,750	3,124
Professional/Other	Cost per Episode	4,694	4,436	4,820	5,211	5,583	5,885
Pharmacy	Cost per Episode	133	96	113	132	193	294
Total	Cost per Episode	12,824	11,898	12,883	13,998	15,290	16,200

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	6,194	5,944	6,296	6,581	7,043	7,568
Outpatient	Cost per Episode	1,803	1,411	1,603	2,119	2,557	3,016
Professional/Other	Cost per Episode	4,694	4,423	4,865	5,165	5,541	5,830
Pharmacy	Cost per Episode	133	106	122	145	192	225
Total	Cost per Episode	12,824	11,884	12,886	14,010	15,333	16,639

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Pregnancy with Delivery - with Complication Only (Episode Included: 19,178 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	6,793	6,287	6,528	7,168	8,192	8,670
Outpatient	Cost per Episode	2,142	1,460	1,969	2,608	3,256	3,703
Professional/Other	Cost per Episode	5,176	4,722	5,121	5,555	6,040	6,359
Pharmacy	Cost per Episode	156	113	131	158	287	344
Total	Cost per Episode	14,268	12,765	13,885	15,469	17,189	18,359

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	6,793	6,275	6,566	7,244	8,019	8,658
Outpatient	Cost per Episode	2,142	1,560	2,073	2,529	3,069	3,516
Professional/Other	Cost per Episode	5,176	4,803	5,107	5,528	5,953	6,333
Pharmacy	Cost per Episode	156	119	138	182	218	266
Total	Cost per Episode	14,268	12,757	13,884	15,483	17,259	18,773

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

Appendix D

ACO Episode Risk-Adjustment Study

Average per Episode

Statistic Percentiles - Cost Normalized Risk Adjusted Data

Episode: Pregnancy with Delivery - with Surgery Only (Episode Included: 2,362 )

Population

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	7,090	6,382	6,713	7,652	8,427	8,904
Outpatient	Cost per Episode	2,026	1,449	1,894	2,435	2,991	3,330
Professional/Other	Cost per Episode	5,286	4,901	5,234	5,650	6,048	6,315
Pharmacy	Cost per Episode	149	113	131	151	257	315
Total	Cost per Episode	14,552	13,066	14,265	15,776	17,189	18,106

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	7,090	6,442	6,786	7,673	8,337	8,768
Outpatient	Cost per Episode	2,026	1,554	2,036	2,353	2,714	3,121
Professional/Other	Cost per Episode	5,286	4,947	5,283	5,577	6,016	6,315
Pharmacy	Cost per Episode	149	120	147	163	203	236
Total	Cost per Episode	14,552	13,064	14,252	15,765	17,269	18,441

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.

**Appendix D**  
**ACO Episode Risk-Adjustment Study**  
**Average per Episode**  
**Statistic Percentiles - Cost Normalized Risk Adjusted Data**

**Episode: Pregnancy with Delivery - with Complication and Surgery (Episode Included: 12,615 )**

**Population**

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Cost by Type of Service				
			25th	50th	75th	90th	95th
Inpatient	Cost per Episode	7,354	6,441	7,038	8,192	8,941	9,404
Outpatient	Cost per Episode	2,312	1,652	2,184	2,795	3,469	3,941
Professional/Other	Cost per Episode	5,500	5,001	5,412	5,947	6,475	6,853
Pharmacy	Cost per Episode	176	113	137	181	324	372
Total	Cost per Episode	15,342	13,454	14,970	16,820	18,715	19,955

Service Type	Unit	Mean	Percentiles - Cost Normalized Risk Adjusted - Ranked by Total Cost				
			20 - 30th	45 - 55th	70 - 80th	85 - 95th	90 - 100th
Inpatient	Cost per Episode	7,354	6,511	7,124	8,048	8,846	9,475
Outpatient	Cost per Episode	2,312	1,769	2,246	2,698	3,268	3,803
Professional/Other	Cost per Episode	5,500	5,038	5,439	5,892	6,413	6,836
Pharmacy	Cost per Episode	176	129	171	201	247	318
Total	Cost per Episode	15,342	13,447	14,979	16,838	18,775	20,431

Note: Excludes the following claim types: incomplete episodes, claims with no episode assignment, ungroupable ETG, episodes containing only Rx claims and/or ancillary services (such as DME), and episodes with costs within the top and bottom 1%.